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NASA Technical Memorandum 4332

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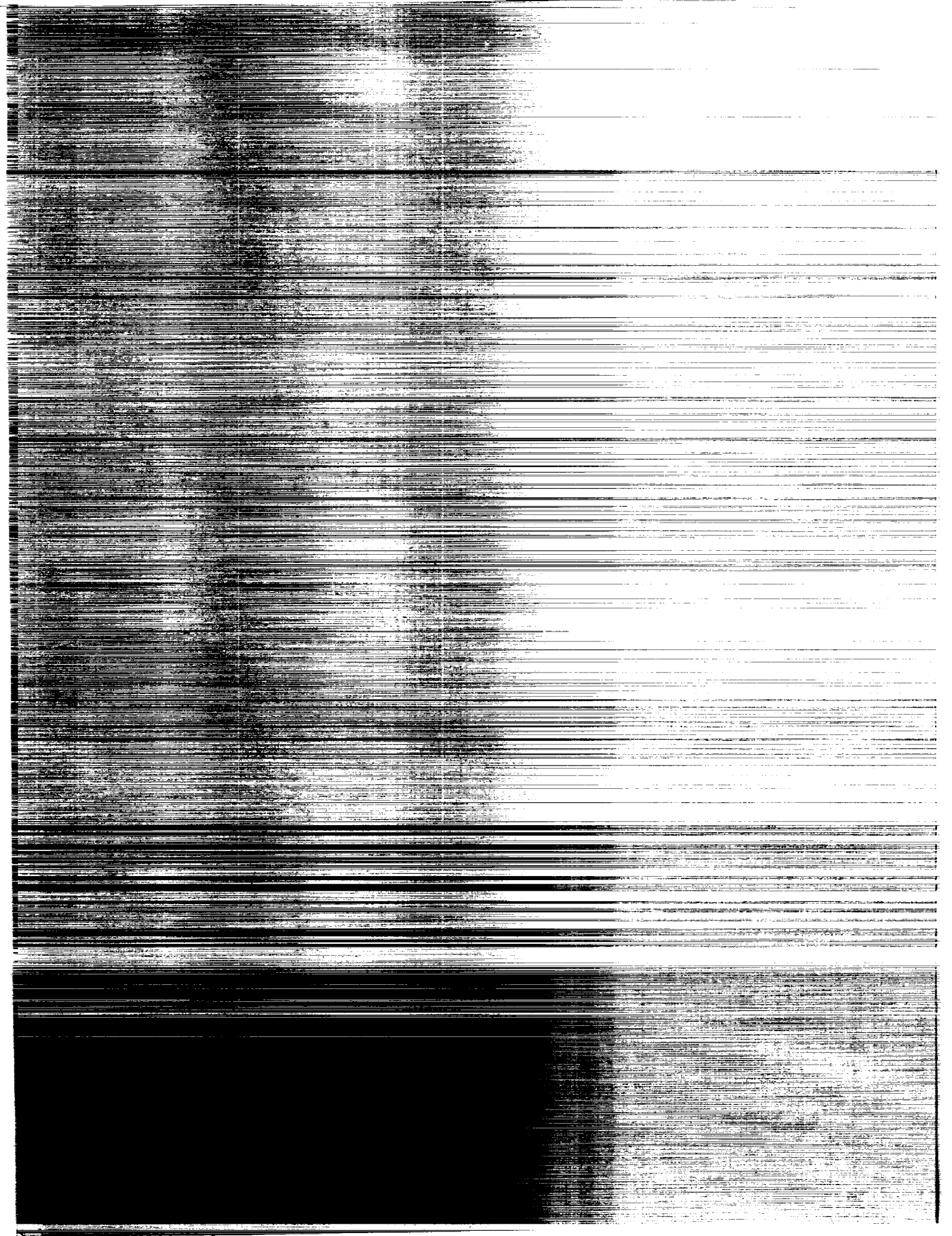

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The Complete Hard X-Ray Burst Spectrometer Event List, 1980–1989

B. R. Dennis and L. E. Orwig
Goddard Space Flight Center
Greenbelt, Maryland

G. S. Kennard, G. J. Labow, R. A. Schwartz,
A. R. Shaver, and A. K. Tolbert
ST Systems Corporation (STX)
Lanham, Maryland

National Aeronautics and
Space Administration

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CONTENTS

Introduction

This event list is a comprehensive reference for all events detected with the Hard X-Ray Burst Spectrometer (HXRBS) on the Solar Maximum Mission (SMM) from launch on February 14, 1980 through re-entry on December 2, 1989. It supersedes all earlier HXRBS lists previously issued as NASA Technical Memorandum 83925 in April 1982, 84998 in March 1983, 86236 in December 1985, and 4036 in June 1988. It also includes events detected after 1987 that have not previously been published.

12,776 events were detected with HXRBS during the almost ten years of operation covered by this list. A plot of the number of events recorded per day from 1980 to 1989 shown in Figure 1(a) reflects the changing solar activity. Nearly all of the events in this list are solar flares. Perhaps 209 are non-solar gamma-ray bursts (indicated by NS in the FLAGS column) and 247 probably resulted from passage through regions of trapped charged particles (indicated by AX in the FLAGS column). Many other such charged-particle events were excluded from the list by inspection of the observations.

The duty cycle for the detection of solar flares is shown in Figure 1(b) for the duration of the mission. During normal operations, this duty cycle was about 50% as a result of the circular SMM orbit with an altitude of 500 km and an inclination of 33 degrees. The orbital period was 95 minutes with 60-65 minutes in the Sun and the remainder behind the Earth. In 7 or 8 orbits per day, 5 to 30 minutes of data were lost because the HXRBS high voltage power supplies were commanded off as the satellite passed through the high charged-particle fluxes in the South Atlantic Anomaly. HXRBS was turned off occasionally for longer intervals as a result of satellite difficulties. The two longest intervals in 1980 were, (1) July 29 at 2100 UT to August 1 at 1500 UT, and (2) December 22 at 1800 to December 23 at 2000. All other off times were less than 24 hours in duration. As indicated in Figure 1(b), large amounts of data were lost during the latter half of 1983 and early 1984 in preparation for the SMM Repair Mission. Since that time, the duty cycle averaged close to 50% and the data recovery generally exceeded 90% except during the infrequent shuttle flights. A disk file on the SOLMAX computer contains minute-by-minute information showing when HXRBS was observing and in what mode.

HXRBS was made possible by the efforts of many people previously acknowledged by Orwig et al. (1980). We are particularly grateful to Ken Frost, who served as HXRBS Principal Investigator and SMM Project Scientist until 1983, and to Tom Chewning and Harold Dennis, who were responsible for the basic design and

implementation of the computer system and software used for data collection and analysis. The following people contributed significantly to the collection of the data in this flare index: Tom Koshut, Douglas Biesecker, Bernard Gibson, John Bonomo, Kathryn Lesh, Maya Yodh, Bob Hindsley, Shawna Brooks, Theresa Gallo, and Steve Graham. Most of the identifications of the non-solar gamma-ray bursts were the result of painstaking cross-examination and confirmation by Chryssa Kouveliotou and Tom Koshut.

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Speich, D.M., Nelson, J.J., Licata, J.P., and Tolbert, A.K. 1991, The 1980 Solar Maximum Mission Event Listing, NASA Technical Memorandum 4287.

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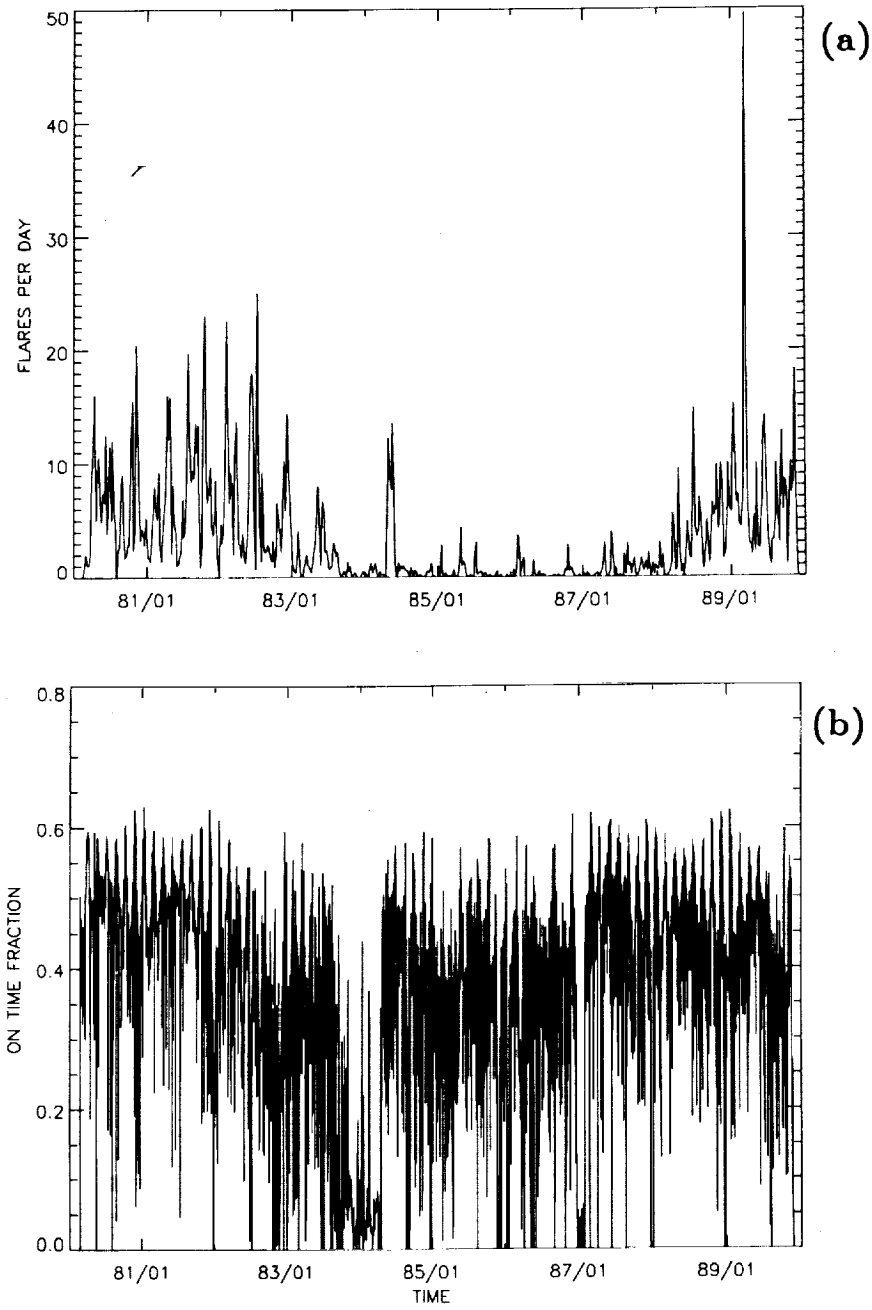

Figure 1. (a) The number of flares per day (averaged over a week) observed with HXRBS plotted as a function of time from February 1980 through November 1989.

(b) The HXRBS duty cycle for the detection of solar flares. The plot shows the fraction of time each day that HXRBS was operating with the Sun in the field of view and for which data were recorded on the HXRBS Sperry Univac computers within 24 hours of the observation. The low values of the duty cycle in late 1983 and early 1984 resulted from the minimization of tape recorder usage implemented at that time to ensure that at least one recorder would be operational for the SMM Repair Mission that took place in April, 1984. The gap from December 1987 to January 1988 ocurred in support of a search for non-solar gamma-ray bursts when the day/night indicator was temporarily reprogrammed to indicate continuous night so that the HXRBS memory would dump immediately when triggered. In fact, solar flares were recorded with the normal ~50% duty cycle during this period.

Instrumentation and Data Collection

HXRBS has been described in detail by Orwig et al. (1980), and the reader is referred to that paper for a description of the X-ray detector and its various modes of operation. Briefly, the X-ray detector was an actively-shielded CsI(Na) scintillation crystal with a sensitive area of 71 cm^2 and a 40° (FWHM) circular field of view. Thus, the whole Sun was observed with no spatial information. With such a wide field of view, even the failure of the SMM fine pointing capability on November 25, 1980 did not seriously degrade the HXRBS flare observations. From this time until the SMM Repair Mission in April 1984, the detector axis drifted as much as 15 degrees from the Sun, but the only effect on the HXRBS solar observations was a periodic fluctuation in the solar-viewing sensitive area of less than 25%. After the repair mission, the spacecraft was continuously pointed at the Sun with only occasional short offset pointings for comet observations and other "target-of-opportunity" observations including Cygnus X-1 and the Crab Nebula.

The basic scientific data from HXRBS consist of the counting rate recorded every 128 ms in each of 15 pulse-height channels. In-orbit calibration data show that these channels covered energy-losses in the CsI(Na) crystal between 25 and 440 keV immediately after launch and then proceeded to drift slowly to higher energies because of a gradual drop in the intrinsic gain of the detector system. After the SMM Repair Mission in April 1984, the amplifier gain was changed by ground command and the lower energy threshold was restored to ~25 keV. In addition to the drift to higher energies, HXRBS suffered two sudden drops in gain that occurred in September-October 1985 and November 1988 generating significant jumps to higher energies. All of these changes in the intrinsic detector gain are illustrated in Figure 2 which shows the relative level of the peak of the calibration line from an on-board radioisotope. The gradual and sudden changes in energy range from the combined effect of changes in both the intrinsic and amplifier gains are documented in Appendix C where the best estimates of the energies of the channel edges are given for the 15th day of each month from launch through the end of the mission. Note that the actual in-orbit channel edges are significantly different from those given by Orwig et al. (1980). A table of the short time periods during which different amplifier gain settings were used either for specific scientific observations or for special instrument calibration tests is given in Appendix D. In addition to the spectral data every 128 ms, counting rate data for many of the larger flares is available with finer time resolution from the on-board circulating 32K-word memory. When the central detector counting rate exceeded a preset trigger threshold level, the number of counts with a pulse-height between the bottom edge of Channel 1 and the top edge of Channel 15 was recorded in each fine time interval, Δt.

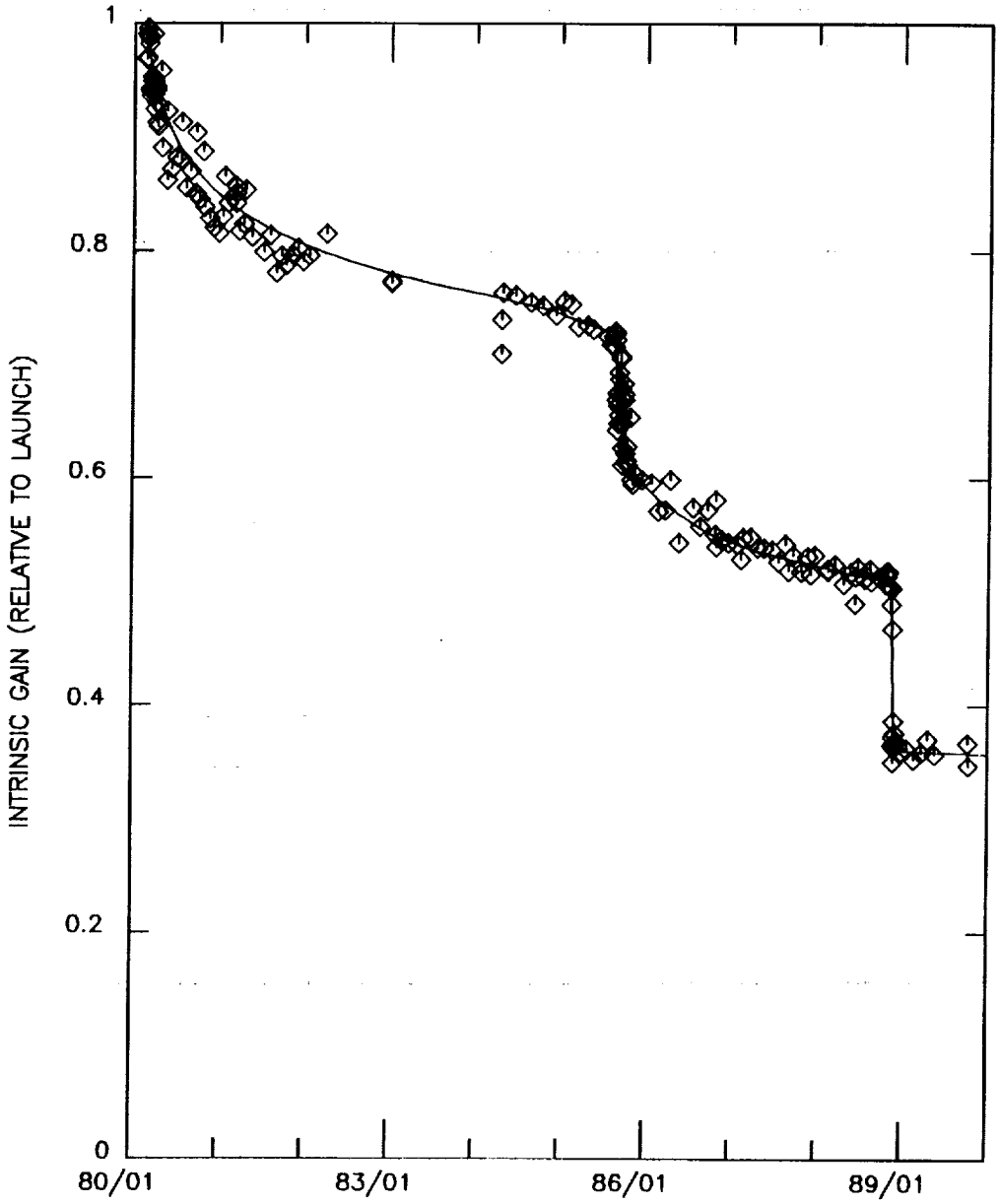

Figure 2. The intrinsic gain of the HXRBS detector system over the whole mission lifetime in units relative to the gain at launch. Each data point was obtained from the fit of the centroid of a gaussian profile to the pulse-height spectrum of the 59.7 keV line from an on-board Am^{241} calibration source. The gain declines gradually over time except for two sudden drops in September-October of 1985 and November of 1988. The solid line represents our best estimate of the intrinsic gain at any particular time.

This threshold level was ground commandable and was set at values ranging from 400 - 1000 counts s^{-1} during the mission. The value of Δt was also commandable. The values used at different times throughout the mission were 10, 5, and 1 ms, giving data sets that are 5 minutes, 2.5 minutes, and 32 seconds long, respectively. Table 1 shows when the different memory time resolutions were used. In each case, 13K words are pre-trigger count samples and 19K words are post-trigger count samples. In normal operations, data for only one such interval could be stored each satellite day and read out at the start of spacecraft night or during passage through the South Atlantic Anomaly.

The absolute time of all counting rate data, including the memory data, is known to an accuracy of a few milliseconds (except where noted in the list), thus allowing detailed comparisons to be made with other contemporary observations.

TABLE 1

Time resolution of on-board 32-K word memory.

Start Time (UT) YY/MM/DD HHMM	End Time (UT) YY/MM/DD HHMM	Time Resolution (ms)
Start of Mission	82/04/22 2126	10
82/04/22 2126	82/06/08 1609	10 at night 1 during the day
82/06/08 1609	84/04/27 1355	10 at night 5 during the day
84/04/27 1355	85/06/28 1658	10
85/06/28 1658	86/02/04 1944	5
86/02/04 1944	86/06/02 2140	10
86/06/02 2140	86/12/09 2224	5
86/12/09 2224	87/07/24 2049	1
87/07/24 2049	87/11/19 1646	10
87/11/19 1646	End of Mission	1

Event Detection

Most of the events in this list were discovered in the HXRBS data within a day after the observation. In normal operations, an average of about 90% of the SMM data was received at the Experimenters Operations Facility (EOF) at Goddard Space Flight Center a few hours after data transmission to the various ground stations. The HXRBS data were stripped from the total bit stream and stored on a large disk capable of holding 24 hours of data. The oldest 10 hours of data on the disk were automatically written onto a magnetic tape every 10 hours and the tapes were kept as archival records. The 24-hour data base was scanned each day for flares by plotting the counting rate in Channel 2 as a function of time with 16 s time resolution. Other rates from the central detector, the anti-coincidence shield, and the charged particle monitors were plotted on the same graph, and hard copies of these housekeeping plots, one orbit per page, are saved as a permanent record. A typical example of such a plot for one orbit on 1980 November 6 is shown in Figure 3 Two flares can be seen in this plot during the daytime part of the satellite orbit. They are most clearly seen in the Channel 2 rate marked 'E' but they are also evident in the other two central detector rates marked 'A' and 'B'. One flare starts at 0626 UT and is HXRBS event #1544 and the other starts at 0647 UT and is HXRBS event #1545.

During the systematic search through the HXRBS data, any significant increase in the Channel 2 counting rate above the average background level was examined with finer time resolution and recorded as an event unless it lasted for only one 128 ms interval. Such single-interval spikes are believed to be instrumental in origin and occur a few times per orbit on average. They most probably result from cosmic-ray interactions in the central detector which release so much energy that the anticoincidence electronics fails to completely reject the very large pulses generated. Prior to the loss in gain that took place after 1985, a flare which produced a 25% increase in counting rate lasting for ~10 seconds could be reliably detected above the ~12 counts s^{-1} background rate in Channel 2. This corresponds to a detection threshold level of ~1.4 x 10^{-2} photons cm^{-2} s^{-1} keV^{-1} at 30 keV. After 1985, this threshold gradually increased until, by 1989, the level for reliable detection corresponded to a flux of ~5 x 10^{-2} photons cm^{-2} s^{-1} keV^{-1} at 30 keV.

Once an event was discovered in this way, a standard plot of counting rate versus time was made with the counts in all 15 channels added together. Generally, a time resolution of 1.024s is used for this plot with a time scale of 1 or 2 minutes per inch depending on the duration of the event. Hard copies of these plots are saved as a permanent record; an example is shown in Figure 4. In addition, photographic copies of these particular plots are produced on microfiche, as mentioned in the Introduction.

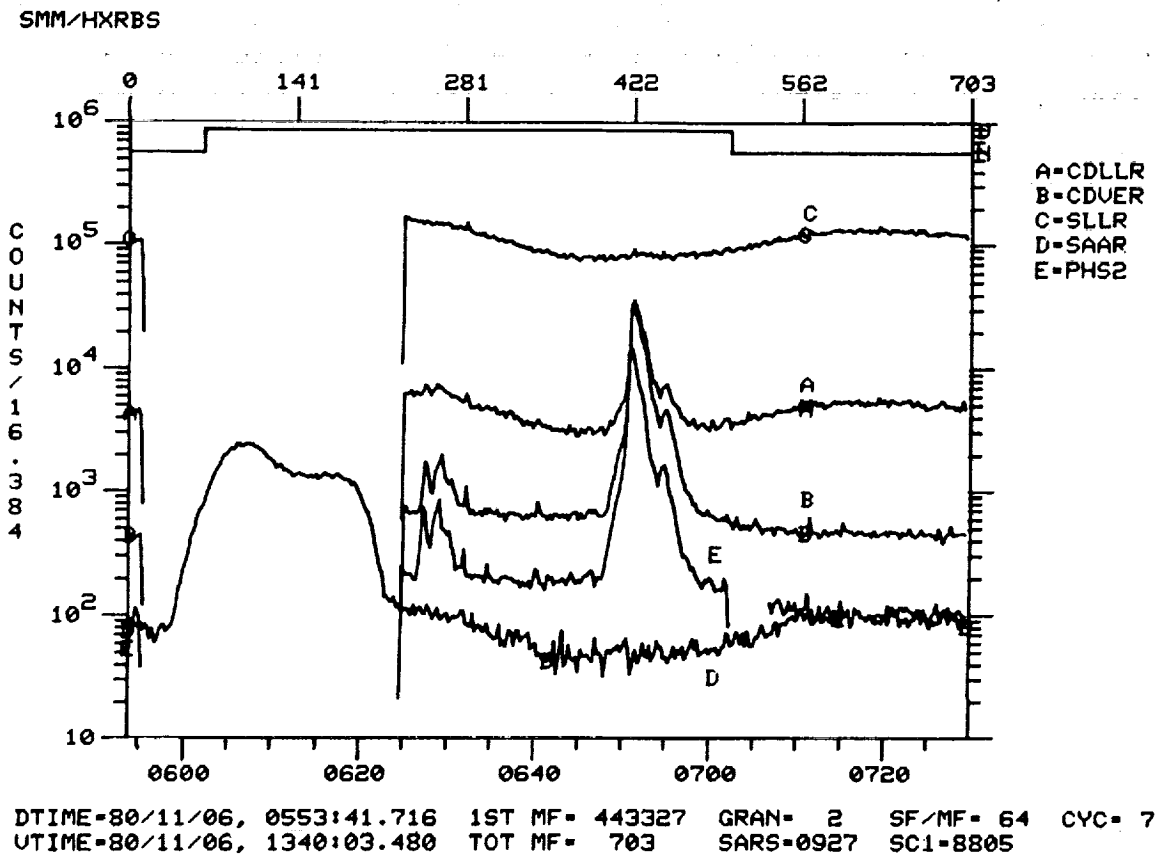

Figure 3. An example of a standard housekeeping plot containing counting rates versus Universal Time for one orbit. The following five counting rates, labelled A through E, are plotted with a time resolution of 16.384 s: A and B are central detector counting rates, C is a shield rate, D is the counting rate in the charged-particle monitor, and E is the counting rate of X-ray events in pulse-height analyzer Channel 2. The double-peaked curve in the plot between 0600 and 0620 UT is the charged-particle rate in the South Atlantic Anomaly, when the primary high voltages were turned off causing the other rates to go to zero. The horizontal straight lines at two levels near the top of the plot indicate the daytime (upper line) and nighttime (lower line) parts of the orbit.

Each legitimate event is given a number, referred to as the HXRBS event number, that uniquely identifies the burst. The event numbers generally follow a chronological sequence as most events were identified within 24 hours of their occurrence. Many bursts, however, were only discovered several months later upon scanning through the complete data set provided on magnetic tape by the Information Processing Division (IPD) at GSFC. These IPD flares are marked in the list with the letter 'I', and their event numbers are generally not in chronological sequence. All IPD tapes have been searched and the flares are included in this list. Therefore, this list is a complete catalog of HXRBS events through the end of the mission.

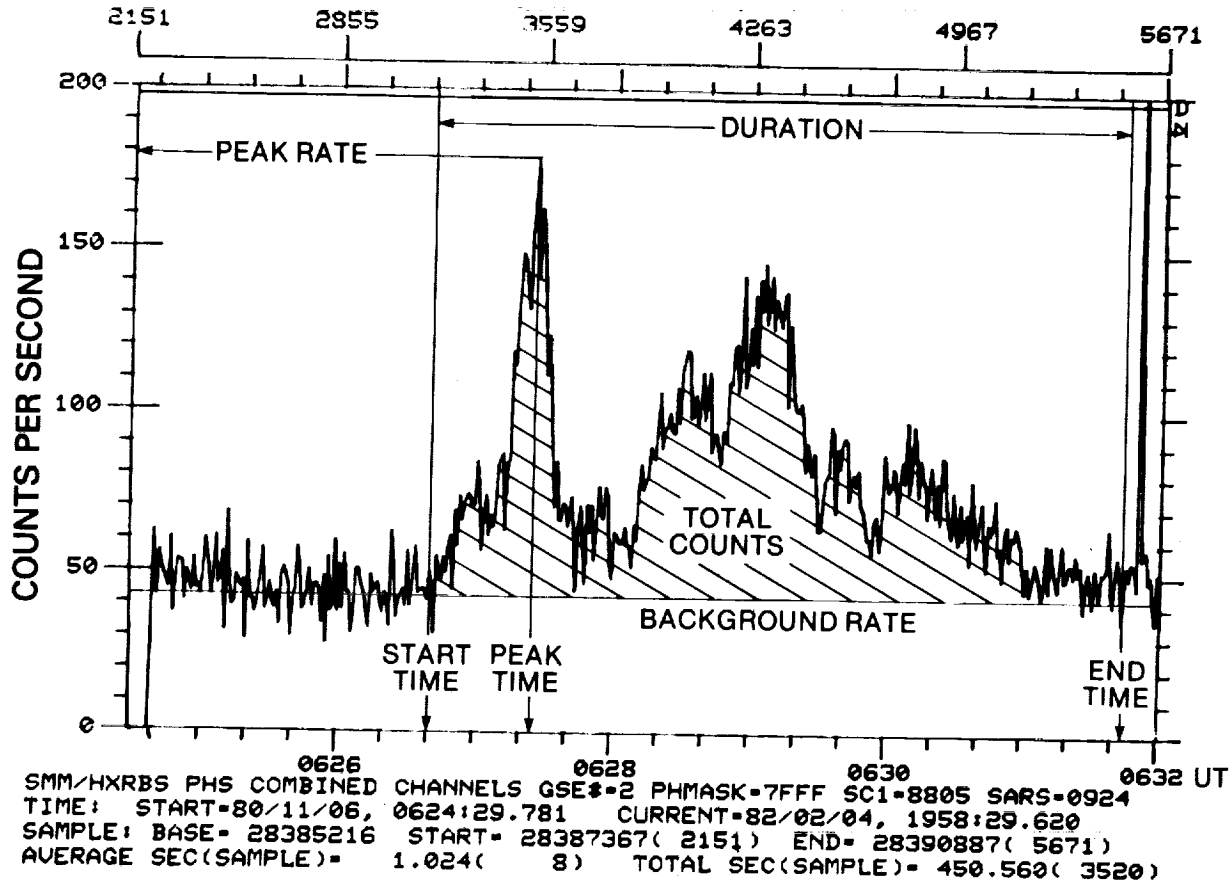

Figure 4. A standard plot of a hard X-ray burst (HXRBS event #1544) showing the rate of counts in Channels 1 through 15 versus Universal Time. The time resolution is 1.024 s, the time scale is 1 inch per minute, and the counting rate is corrected for instrumental dead time. The start time, peak time, duration, peak rate and total number of counts are indicated as they are determined for inclusion in the event list.

Event List Description

The HXRBS event number, the start time, the peak time and the duration are given for every event in the list. These times are generally accurate to ~5 s. The peak counting rate summed over all 15 channels is also listed. This rate is obtained from a rate-versus-time plot with a time resolution of 1.024 s. It is the total rate including the pre-flare background rate as indicated in Figure 4. This background rate was ~40 counts s^{-1} from 1980 to 1985 and decreased as the detector gain decreased until by 1989 it was ~25 counts s^{-1}.

The number of the highest channel showing any increase in rate above background is also included in the event list to give an idea of the X-ray spectral hardness of the event. This highest channel number is only approximate and is generally recorded as 2, 5, 10 or 15. The X-ray energy losses (in keV) in the CsI(Na) central detector crystal corresponding to these channels can be obtained from Appendix C.

For the larger flares, i.e. those with peak rates exceeding 100 counts s^{-1} and/or durations of greater than 200 s, the integrated total number of counts in excess of the pre-flare background recorded during the flare is also listed. This gives an indication of the overall size of the burst. Data for these larger flares (and after October 1986, for all flares regardless of size) were written to individual files on magnetic tapes and later transferred to optical disk.

The event list is arranged in chronological order with one line per event. Each column is labelled at the top of each page with the following column headings:

1. HXRBS Event — A number which uniquely identifies each event. An asterisk preceding the event number indicates that a note about that event is included in Appendix E.
2. DOY — The day of the year in which the flare occurred, with January 1st as day one.
3. Start Date — The date of the event expressed as year/month/day.
4. Start Time — The start time of the event expressed as hour minute:second.
5. Duration — The duration of the event in seconds.
6. Peak Rate — The peak rate in counts s^{-1} in the full energy range covered by the instrument (channels 1-15). It does not have the preflare background rate subtracted (see Figure 4).
7. Total Counts — The integrated number of counts recorded during the flare, in excess of the pre-flare rate (see Figure 4).

8. Max. Ch. # — The highest channel showing any increase in rate during the flare. See Appendix C for the energy range of each channel.

9. NOAA Region — Active region number assigned by Space Environment Services Center (SESC).

10. Flags — The definitions of the letters in this column are as follows:

AX	Event is probably the result of passage through trapped charged particles.
DG	One or more data gaps during event.
EG	Event ended in a data gap.
EN	Event ended in spacecraft night.
ES	Event ended when SMM was in the SAA.
EW	Experiment status file contains wrong on-time information.
FS	Event contains one or more fast spikes with <1 s duration.
GB	Events verified as non-solar gamma-ray bursts.
I	Event discovered well after the event time, in data on tapes provided by the GSFC Information Processing Division.
IN	Event interrupted by spacecraft night.
IS	Event interrupted by the SAA.
M	Memory data available with 10 ms time resolution.
M1	Memory data available with 1 ms time resolution.
M5	Memory data available with 5 ms time resolution.
ND	Noisy data
NS	Possible non-solar gamma-ray burst.
SA	Event started when SMM was in the South Atlantic Anomaly (SAA).
SG	Event started in a data gap.
SN	Event started in spacecraft night.

Separate lists of the larger events (peak counting rates greater than 10,000 counts s^{-1}) and non-solar gamma-ray bursts are included in Appendices A and B, respectively.

Availability of Data and Analysis Software

This HXRBS event list is part of the extensive SMM flare catalog that resides on the SMM Data Analysis Center's VAX 8350 computer (SPAN node name SOLMAX) at Goddard Space Flight Center. The SMM catalog contains extensive data on all the events detected with the SMM instruments and also includes data on those events from other spacecraft, and from ground-based radio and optical observatories, when available. Software which permits off-site users to access the catalog and manipulate and display the data is described in the SMM Binary Flare Index Description and Software User's Guide (Tolbert, 1985). To enter the programs, the user must log onto SOLMAX::HXRBS and type FSORT to select and/or sort events, FPLOT to generate plots of event parameters, or CATPRINT to generate event lists. Each program has an on-line help utility. The file containing the minute-by-minute HXRBS status is also accessed through the FPLOT program and is described by Tolbert (1985). Comprehensive SMM lists covering the entire mission are being published on a year-by-year basis. The 1980 comprehensive list is currently available (Speich et al., 1991), and the lists for the remaining years will be published in 1991. These will supersede the only other comprehensive SMM event list, which covers 1980 events, published by Pryor et al. (1981).

The HXRBS counting rate time profiles with 1 s time resolution are available on microfiche for most of the events in this index. One plot is given for each event showing the total counting rate integrated over the full energy range of the instrument as a function of Universal Time. Copies of these microfiche can be obtained from the authors or from the National Space Science Data Center, Code 601, NASA/GSFC, Greenbelt, MD 20771.

The raw telemetry data for all flares detected after October 1986 and the larger flares detected before that time (peak rate greater than 100 counts s^{-1} and/or duration greater then 200 s) are stored on three 1-GByte optical disk platters. The complete HXRBS telemetry data set will be archived on 24 1-Gbyte optical disk platters by the end of 1991. Both sets of optical disk platters and the software to access these data reside at the SMM Data Analysis Center.

The HXRBS Event List

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1	50	80/02/19	0746:50	0749:35	522	177	20080	3	2287	
2	52	80/02/21	0321:21	0322:00	77	210	13967	3	2287	
4	52	80/02/21	0447:03	0447:38	51	67		2		
3	52	80/02/21	1712:40	1712:45	40	65		2	2287	
5	53	80/02/22	1902:00	1904:35	180	145	3817	2	2292	
6	55	80/02/24	0506:44	0508:20	170	184	5716	3		
7	55	80/02/24	0918:10	0919:14	75	99		2		
8	56	80/02/25	1715:20	1716:50	160	68		2	2294	
9	56	80/02/25	2202:20	2202:40	30	78		2	2296	
11	57	80/02/26	0027:05	0027:25	30	242	2338	3	2296	ES
10	57	80/02/26	0320:50	0321:30	90	88		2	2296	
12	57	80/02/26	1859:00	1900:10	160	77		2		
13	58	80/02/27	0338:40	0341:50	409	227	24691	3	2296	EN
14	58	80/02/27	1403:41	1404:19	82	62	671	2		
15	58	80/02/27	2238:10	2238:15	15	60		2		
16	59	80/02/28	0116:55	0117:00	10	66		2	2297	
4261	59	80/02/28	0250:40	0250:45	12	125	570	4		I
17	59	80/02/28	1412:20	1412:27	15	58		2		
18	60	80/02/29	0733:10	0733:46	60	176	3091	3		
19	62	80/03/02	0306:48	0306:52	50	84		2	2314	
20	62	80/03/02	0446:10	0446:40	100	56		2		
21	62	80/03/02	1905:20	1905:40	45	160	2311	3	2309	
22	63	80/03/03	2050:25	2051:30	90	160	3708	4		
23	64	80/03/04	0121:53	0122:02	150	90	1273	2		
24	65	80/03/05	2207:10	2208:20	70	55	270	2		
25	65	80/03/05	2330:40	2331:00	330	99	7487	2		
26	66	80/03/06	0419:00	0421:20	420	100	6370	2	2314	
27	67	80/03/07	0507:40	0508:25	47	129	1690	13		NS,GB
28	69	80/03/09	0435:50	0436:30	170	65	847	2		
29	70	80/03/10	2226:20	2227:10	160	62	510	2	2326	
4271	73	80/03/13	1445:20	1445:45	220	138	15000	5		I
31	73	80/03/13	2158:00	2201:20	540	105	13800	5		AX
32	74	80/03/14	1113:50	1114:00	50	71	100	2		
33	74	80/03/14	2156:10	2158:00	660	119	18543	6		AX
4272	75	80/03/15	2017:35	2020:15	235	76		5		I
34	75	80/03/15	2155:16	2156:57	540	120	16114	5		AX
36	76	80/03/16	2016:09	2018:47	540	80		4		AX,EW
37	77	80/03/17	1445:47	1446:20	60	95	741	2		
38	78	80/03/18	2324:30	2325:00	100	70	100	2		
39	79	80/03/19	0319:20	0319:40	40	72		2	2343	
40	79	80/03/19	0805:45	0806:40	145	4460	68580	9	2339	M
41	79	80/03/19	1436:30	1440:20	370	135	3930	2	2339	
42	79	80/03/19	1736:00	1737:20	320	130	5300	2	2339	
43	81	80/03/21	0134:55	0135:20	45	64		2	2339	
4266	81	80/03/21	1356:20	1356:40	180	68		2		I
44	83	80/03/23	1658:10	1658:10	600	95		3	2339	SN
45	83	80/03/23	1921:00	1921:40	100	180	2660	3		
46	84	80/03/24	0804:30	0805:20	75	490	12800	4		
47	84	80/03/24	1358:05	1358:25	40	370	2261	4		
48	84	80/03/24	1528:40	1529:00	40	120	1106	2	2346	
30	84	80/03/24	1535:40	1536:00	70	75		2	2358	
8464	84	80/03/24	2358:00	2358:02	5	55	33			NS,GB
49	85	80/03/25	0124:00	0124:30	60	68		2	2339	
50	85	80/03/25	0149:30	0149:50	270	130	2392	3	2341	
51	85	80/03/25	0426:00	0428:30	190	520	25760	8	2339	
52	85	80/03/25	0449:37	0449:40	30	78		3		
53	85	80/03/25	1350:00	1353:00	240	65	1622	2	2358	
54	85	80/03/25	1405:10	1405:27	30	63	254	2	2342	
55	85	80/03/25	1716:40	1717:40	130	265	5800	7	2359	
56	85	80/03/25	1924:30	1924:35	40	110	1200	3		
59	85	80/03/25	2043:00	2050:20	1080	80	5538	2	2351	
57	85	80/03/25	2200:50	2202:00	100	95		3		
58	86	80/03/26	0002:30	0007:20	400	700	48383	11	2359	
60	86	80/03/26	1419:50	1421:03	160	400	17675	8	2339	ND
61	86	80/03/26	2202:30	2205:10	300	60		2	2362	
62	86	80/03/26	2338:00	2338:45	240	90		3	2351	
63	87	80/03/27	0413:00	0419:20	1000	78		2	2363	SA
64	87	80/03/27	0740:30	0741:20	60	110	1228	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
65	87	80/03/27	0950:30	0951:20	110	79	1424	2		
66	87	80/03/27	1045:20	1046:30	220	92	2188	3		
67	87	80/03/27	1217:00	1259:00	3120	700	3.70E+05	11	2363	EN
68	87	80/03/27	1837:30	1839:20	1080	6000	3.25E+05	11	2363	
69	87	80/03/27	2030:10	2030:40	100	260	4184	7	2357	
70	87	80/03/27	2146:00	2146:20	40	400	4400	6	2354	
71	88	80/03/28	0636:20	0638:20	180	71	1080	2	2359	
72	88	80/03/28	0911:40	0912:10	80	94	1040	4		
73	88	80/03/28	0947:50	0948:50	70	85	700	4		
74	88	80/03/28	0954:20	0956:30	160	4100	1.20E+05	12	2363	M
75	88	80/03/28	2007:50	2008:20	720	65		2	2360	SN
76	88	80/03/28	2053:20	2053:55	100	170	4162	4	2357	
77	88	80/03/28	2157:20	2159:10	500	3000	2.57E+05	12	2357	FS
78	89	80/03/29	0109:00	0111:00	360	77	1966	3	2363	
79	89	80/03/29	0125:00	0125:30	120	70		2		
80	89	80/03/29	0329:10	0329:30	150	280	3031	6	2357	
81	89	80/03/29	0436:50	0437:20	50	100	508	2	2357	
82	89	80/03/29	0446:40	0447:00	30	97	410	3		
83	89	80/03/29	0554:50	0555:40	290	109	3038	4	2357	
84	89	80/03/29	0603:50	0604:10	40	140	600	4		
85	89	80/03/29	0735:50	0736:15	160	900	27528	6		M
86	89	80/03/29	0815:30	0816:43	90	135	1167	3	2363	
87	89	80/03/29	0917:00	0918:13	210	19000	2.50E+05	15	2363	M ,FS
88	89	80/03/29	0940:05	0941:23	150	680	15852	6	2363	
89	89	80/03/29	0954:40	0955:15	100	8000	1.20E+05	15	2357	EN
90	89	80/03/29	1042:30	1042:40	40	56	598	2		
91	89	80/03/29	1207:50	1208:10	50	71	377	2		
92	89	80/03/29	1216:40	1217:00	30	96		2		
93	89	80/03/29	1419:00	1420:10	170	93		4	2361	
94	89	80/03/29	1443:00	1443:55	80	108	2396	3	2357	EN
95	89	80/03/29	1521:00	1521:40	90	63	957	2	2354	
96	89	80/03/29	1729:20	1729:25	150	95		2		
97	89	80/03/29	1854:50	1855:00	20	55		2	2357	
98	89	80/03/29	2014:10	2014:42	70	385	4375	4	2363	
99	89	80/03/29	2040:00	2041:40	240	210	6930	3	2363	
100	89	80/03/29	2046:00	2048:50	330	125	7299	3	2363	
101	90	80/03/30	0005:40	0006:10	50	90	563	2	2351	
102	90	80/03/30	0252:35	0252:45	20	57	806	3	2356	
103	90	80/03/30	0302:20	0302:40	110	140	2970	3	2363	
104	90	80/03/30	0322:20	0322:35	30	82	390	3	2363	
105	90	80/03/30	0749:15	0750:00	55	62	470	2	2363	
106	90	80/03/30	1525:00	1525:40	100	134	1980	4		
107	90	80/03/30	1841:10	1841:50	300	194	3931	5	2359	ND
108	90	80/03/30	2049:15	2049:45	55	190	1416	6	2359	
109	91	80/03/31	0115:35	0117:40	140	210	1933	5	2363	
110	91	80/03/31	1123:40	1124:10	60	500	6761	6	2363	FS
35	91	80/03/31	1129:10	1129:30	75	280	2615	2	2359	
111	91	80/03/31	1705:15	1705:22	13	82	92	4		
204	91	80/03/31	1706:40	1707:04	64	130	1049	4		
880	91	80/03/31	1708:30	1708:39	40	214	1673	7	2363	
112	92	80/04/01	0300:25	0300:50	50	70	240	2		
113	92	80/04/01	0943:10	0943:40	98	70	1190	4		
114	92	80/04/01	1524:25	1525:45	245	200	12800	5	2363	
115	92	80/04/01	1539:55	1541:05	200	72	1240	2	2363	
116	92	80/04/01	2017:00	2018:30	720	110	3077	2		
117	92	80/04/01	2159:20	2200:00	150	72	819	2		
118	93	80/04/02	0254:40	0255:00	40	78	295	2	2363	
119	93	80/04/02	0416:10	0416:40	340	160	3604	4	2363	
120	93	80/04/02	0902:20	0903:35	160	380	13005	6	2363	
121	93	80/04/02	1121:00	1121:30	70	950	11245	6	2363	M
122	93	80/04/02	1659:30	1702:40	320	320	13940	4	2363	
123	93	80/04/02	1724:15	1724:30	35	70	400	2		
124	93	80/04/02	2022:00	2024:15	190	72	1450	2	2363	
125	94	80/04/03	0116:00	0117:35	720	950	73585	5	2359	ND
126	94	80/04/03	0633:35	0638:05	500	340	33300	7		
127	94	80/04/03	0717:00	0719:35	960	1830	3.00E+05	12		M ,SN
128	94	80/04/03	0815:40	0816:05	30	77	264	3		
129	94	80/04/03	2039:40	2040:20	60	140	10000	3	2359	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
130	95	80/04/04	0721:40	0722:00	30	105	773	2	2362	
131	95	80/04/04	0858:50	0858:50	30	100	580	2	2363	
132	95	80/04/04	1101:30	1105:30	420	100	3186	2	2363	
133	95	80/04/04	1515:50	1517:45	2160	600	2.65E+05	4	2363	SN,ES
134	95	80/04/04	1654:55	1655:06	89	97	1350	2		ND
135	95	80/04/04	2156:20	2156:50	100	105	1528	4	2362	AX
136	96	80/04/05	0008:50	0009:25	60	880	9553	6	2372	M ,FS
137	96	80/04/05	0146:35	0146:47	37	90		5		
138	96	80/04/05	0424:57	0425:40	73	80		2	2362	
139	96	80/04/05	0553:20	0556:30	910	87	13650	2	2372	
140	96	80/04/05	0810:50	0810:57	30	90		2		
141	96	80/04/05	0944:10	0944:30	180	150	1865	4		
142	96	80/04/05	1039:50	1041:30	410	460	15580	8	2363	
143	96	80/04/05	1111:20	1113:20	260	65		2		
144	96	80/04/05	1541:30	1551:10	630	2100	3.47E+05	8	2372	M ,ES
145	96	80/04/05	1710:00	1710:55	240	85		2		
146	96	80/04/05	1849:45	1851:30	155	180	3500	4	2363	
147	96	80/04/05	2007:20	2008:40	160	80		2	2372	AX
148	96	80/04/05	2143:00	2145:15	720	110	14803	2	2372	AX
149	97	80/04/06	0324:25	0325:35	105	88	450	2	2362	
150	97	80/04/06	0404:00	0413:20	2100	2360	7.28E+05	10	2372	M ,SN
151	97	80/04/06	0604:20	0605:00	120	80	710	2		
152	97	80/04/06	0611:40	0612:35	100	175	5500	4	2363	
153	97	80/04/06	0716:30	0748:20	2200	95	15122	3		
154	97	80/04/06	1223:35	1225:10	320	78	2280	2		
155	97	80/04/06	1350:40	1351:40	290	84	4260	10		
156	97	80/04/06	1433:40	1434:30	260	2000	2.76E+05	10	2372	M ,EN,SA
157	97	80/04/06	1539:20	1541:25	600	900	1.54E+05	3	2372	M
158	98	80/04/07	0050:00	0052:30	2000	430	2.90E+05	4	2372	EN
159	98	80/04/07	0129:20	0129:55	50	93	990	2		
160	98	80/04/07	0139:10	0139:28	30	510	4669	6		
161	98	80/04/07	0319:30	0320:05	70	83	1229	2	2363	
162	98	80/04/07	0401:30	0401:30	700	89	9830	2	2363	SN
163	98	80/04/07	0458:10	0500:00	200	77	778	2		
164	98	80/04/07	0537:40	0538:15	1800	2300	6.10E+05	3	2372	M ,SN
165	98	80/04/07	0540:35	0540:48	100	1970	40680	3		
166	98	80/04/07	0553:55	0555:40	165	370	8612	3		
167	98	80/04/07	0603:40	0604:50	150	105	4465	2		
168	98	80/04/07	0720:10	0720:45	50	60		2		
169	98	80/04/07	1033:40	1034:50	120	130	3441	3		
170	98	80/04/07	1220:50	1221:10	60	62	115	2		
171	98	80/04/07	1243:50	1244:20	60	79	1786	2		
172	98	80/04/07	1254:10	1254:30	40	170	999	3		
173	98	80/04/07	1341:40	1342:20	120	54	1024	2		
174	98	80/04/07	1652:00	1652:24	50	230	2773	2	2370	
175	98	80/04/07	1655:50	1656:10	40	105	1393	2	2370	
176	98	80/04/07	1840:50	1843:55	320	495	36370	3	2372	
177	98	80/04/07	2009:10	2009:25	40	70	336	2	2375	
178	98	80/04/07	2153:30	2153:35	10	108	290	4		
179	98	80/04/07	2325:40	2327:35	200	70	973	2		
180	98	80/04/07	2354:10	2354:30	30	96	1660	2		
181	98	80/04/07	2359:25	2359:30	40	80	1100	2	2372	
182	99	80/04/08	0115:20	0117:40	540	190	13000	4	2375	
183	99	80/04/08	0131:10	0131:30	58	82	290	2		
184	99	80/04/08	0140:10	0140:28	30	180	1124	2		
185	99	80/04/08	0146:50	0147:30	55	105	737	2		M
186	99	80/04/08	0238:10	0238:40	280	61		2		
187	99	80/04/08	0259:15	0305:00	1525	3800	5.40E+05	6	2372	EN
188	99	80/04/08	0320:00	0320:30	60	90	967	2		
189	99	80/04/08	0730:50	0731:40	90	75		2		
190	99	80/04/08	0923:50	0924:30	80	70	664	2		
191	99	80/04/08	0931:00	0931:10	30	67	277	2		
192	99	80/04/08	1050:30	1051:30	140	75	1470	2	2372	
193	99	80/04/08	1215:30	1215:34	12	60		2	2377	
194	99	80/04/08	1218:00	1219:40	210	210	6571	5	2370	
195	99	80/04/08	1230:30	1231:00	70	120	1848	3	2370	
196	99	80/04/08	1532:45	1532:50	15	60	175	2		
197	99	80/04/08	1702:50	1703:15	40	63	284	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
198	99	80/04/08	2155:10	2155:20	35	123	827	3	2370	
199	99	80/04/08	2206:00	2206:10	40	70	369	2		
200	100	80/04/09	0128:00	0129:30	600	70		2	2377	
201	100	80/04/09	0359:25	0402:30	200	100	639	2	2379	SN
202	100	80/04/09	0409:20	0411:10	110	130	2482	2	2377	
203	100	80/04/09	0445:30	0445:50	40	66	319	2	2370	
4273	100	80/04/09	0757:40	0758:45	250	127	2438	2	2377	I
205	100	80/04/09	0807:15	0809:10	220	64		2		
4274	100	80/04/09	1045:40	1046:05	55	120	4300	5		I
206	100	80/04/09	1209:03	1209:13	50	122	1303	3		DG
207	100	80/04/09	1212:40	1213:50	100	76	836	2		
208	100	80/04/09	1705:48	1706:00	20	67		2		
209	100	80/04/09	1837:24	1837:42	30	71		2		EW
210	100	80/04/09	2156:09	2156:23	50	85		2		EW
211	101	80/04/10	0116:48	0117:00	75	90		2		
212	101	80/04/10	0124:30	0125:30	104	340	4939	8	2370	FS
213	101	80/04/10	0237:50	0238:18	120	93		2	2377	
214	101	80/04/10	0247:30	0248:40	150	140	6268	2		
215	101	80/04/10	0250:50	0251:18	100	385	6822	6	2377	FS
216	101	80/04/10	0437:56	0438:05	190	69		2	2372	
217	101	80/04/10	0755:54	0757:32	220	90	4188	4	2373	
218	101	80/04/10	0800:10	0800:40	45	80		4		
219	101	80/04/10	0916:00	0918:50	720	4400	3.00E+05	8	2372	M
220	101	80/04/10	1024:10	1027:10	230	115	4131	6		AX
221	101	80/04/10	1251:34	1252:50	192	170	5358	2	2372	
222	101	80/04/10	2013:25	2013:40	50	84		2		EW
223	101	80/04/10	2156:15	2157:50	230	91	3890	2	2375	EW
224	102	80/04/11	0058:30	0058:50	115	85		2	2370	
225	102	80/04/11	0126:15	0126:20	10	100	338	2	2370	DG
226	102	80/04/11	0412:00	0416:05	320	210	14560	4	2372	M
227	102	80/04/11	0427:45	0428:50	170	150	4060	4		
228	102	80/04/11	0533:20	0533:40	65	70		2	2370	SN
229	102	80/04/11	0618:15	0618:40	85	70		2		
230	102	80/04/11	0630:15	0631:20	155	100	4424	2	2370	M ,EN
231	102	80/04/11	0850:00	0850:01	70	72		2		
232	102	80/04/11	0902:50	0907:10	490	180	23200	3		
233	102	80/04/11	1105:15	1105:15	10	72		2		
234	102	80/04/11	1348:30	1350:10	205	1150	77000	6	2372	
235	102	80/04/11	1510:30	1511:15	130	265	10400	6	2372	
236	102	80/04/11	1702:55	1703:00	35	72		2		
237	102	80/04/11	1821:10	1821:40	360	260	11000	6	2373	
238	102	80/04/11	2033:25	2033:50	65	91		2		
239	102	80/04/11	2132:15	2142:50	800	480	10400	10	2390	
240	102	80/04/11	2202:55	2203:00	40	70		10		
241	102	80/04/11	2308:10	2310:50	530	360	32000	4	2372	SN
242	103	80/04/12	0054:10	0056:30	205	115	4640	2	2372	EW
243	103	80/04/12	0220:00	0220:30	85	66		2	2375	
244	103	80/04/12	0454:00	0454:10	15	70		2	2373	EW
245	103	80/04/12	0541:30	0541:40	130	490	7680	8		FS
246	103	80/04/12	0552:00	0555:30	715	345	34100	6	2375	EW
247	103	80/04/12	0630:10	0630:50	75	71		2	2372	EW
248	103	80/04/12	0846:15	0846:50	85	80		2		EW
249	103	80/04/12	0907:40	0920:40	1250	70	20000	2	2375	EW
250	103	80/04/12	0940:00	0940:05	22	140	1101	3		EW
251	103	80/04/12	1337:55	1338:25	210	76	2600	2	2373	
252	103	80/04/12	1428:05	1428:15	200	145	1824	2	2375	EG,DG
253	103	80/04/12	1508:10	1508:30	85	60		2	2370	EW
254	103	80/04/12	1524:20	1524:40	30	70		2	2390	
255	103	80/04/12	1526:50	1527:00	30	58		2		EW
256	103	80/04/12	1645:00	1645:20	40	60		2	2379	
257	103	80/04/12	1709:20	1709:35	20	75		2	2373	EW
258	103	80/04/12	2014:40	2015:20	75	115	1816	2		EW
259	103	80/04/12	2307:00	2307:22	155	195	5977	4	2375	SN
260	104	80/04/13	0228:50	0231:10	220	530	11103	8	2373	FS
261	104	80/04/13	0402:30	0405:20	990	800	60211	6	2372	M
262	104	80/04/13	0420:00	0420:40	180	100	1725	4		
263	104	80/04/13	0453:00	0453:30	120	550	9683	5	2375	
264	104	80/04/13	0545:48	0545:54	22	115	3704	4		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
265	104	80/04/13	0546:30	0546:40	40	68		2		
266	104	80/04/13	0547:20	0547:26	33	82		4		
267	104	80/04/13	0900:20	0900:45	38	62		3		
268	104	80/04/13	0902:00	0902:15	35	140	506	4		
269	104	80/04/13	0903:20	0904:10	158	2000	34898	10		M
270	104	80/04/13	0906:30	0906:45	30	85		2		
271	104	80/04/13	0907:10	0907:32	55	75		2		
272	104	80/04/13	0913:22	0913:34	22	73		4		
273	104	80/04/13	1023:45	1023:58	75	260	2956	4		FS
274	104	80/04/13	1111:50	1113:00	130	92		2	2391	
275	104	80/04/13	1227:25	1229:42	234	490	11760	6	2377	FS
276	104	80/04/13	1239:45	1240:10	60	140	1052	5		
277	104	80/04/13	1244:10	1247:20	200	87		4	2391	
278	104	80/04/13	1652:30	1653:20	120	54		2	2391	
279	104	80/04/13	1710:20	1711:30	100	82		3	2390	
280	104	80/04/13	1851:00	1854:00	247	160	5825	4	2377	
6768	104	80/04/13	1954:50	1955:30	80	100	1400	4	2389	DG
281	104	80/04/13	2130:00	2134:00	315	90		2	2375	SN,AX
282	104	80/04/13	2150:10	2150:52	110	96		2	2377	
283	104	80/04/13	2315:00	2316:20	116	93		2	2389	
284	105	80/04/14	0557:40	0557:50	40	57		2	2377	
285	105	80/04/14	0715:50	0717:15	190	62		2	2390	
286	105	80/04/14	1107:10	1107:30	36	62		2	2390	
287	105	80/04/14	1110:20	1111:50	145	102	3059	4	2390	
288	105	80/04/14	1153:10	1153:40	60	170	1321	4	2377	SN
289	105	80/04/14	2004:10	2005:10	260	420	13500	10	2390	
290	105	80/04/14	2025:20	2028:35	280	115	2466	4	2375	
291	105	80/04/14	2030:45	2033:40	280	105	4039	2		
292	105	80/04/14	2136:00	2138:20	380	350	37724	5	2375	
293	106	80/04/15	0547:30	0548:50	210	780	21791	10	2390	M
294	106	80/04/15	0851:20	0851:35	20	65		2		ND
295	106	80/04/15	1508:00	1510:25	700	19000	9.50E+05	11	2389	M
296	107	80/04/16	0100:40	0103:30	270	108	8063	3	2389	ND
297	107	80/04/16	0115:20	0116:10	150	71		2		ND
298	107	80/04/16	0255:40	0256:00	30	91		2		
299	107	80/04/16	0402:00	0407:00	420	280	21633	5	2389	ND
300	107	80/04/16	0538:00	0540:30	380	120	5358	3	2391	
301	108	80/04/17	0104:05	0105:15	80	77		2	2396	
4267	108	80/04/17	0249:15	0250:30	145	76		5		I
302	108	80/04/17	0436:50	0437:50	185	75		2	2389	
303	108	80/04/17	0622:15	0622:40	65	70		2		
6751	108	80/04/17	0750:51	0752:57	142	66		2		
304	108	80/04/17	1958:00	2005:30	540	91	3560	2		
305	108	80/04/17	2314:10	2314:20	40	84		2	2370	
306	109	80/04/18	0620:05	0625:40	410	75		2	2389	
307	109	80/04/18	2001:00	2003:05	270	220	32202	4	2399	
308	110	80/04/19	0119:45	0119:48	18	1000	3030	15		NS,GB
309	110	80/04/19	0240:00	0240:40	90	140	2435	2		
310	111	80/04/20	0108:10	0108:40	75	75		2		
311	111	80/04/20	0248:15	0248:25	145	105	1960	3	2396	
312	111	80/04/20	1508:15	1508:20	15	90		3	2391	
313	111	80/04/20	1553:55	1554:05	50	135	710	3		
314	111	80/04/20	1956:05	1956:09	10	97		2	2404	
315	111	80/04/20	2019:40	2020:00	210	90		2	2397	
316	111	80/04/20	2133:00	2137:10	540	60		2	2375	
317	111	80/04/20	2152:20	2152:55	60	60		2		
318	112	80/04/21	0308:04	0308:09	27	670	5622	15		NS,GB
319	112	80/04/21	0405:50	0407:00	120	70		2	2396	
320	112	80/04/21	0539:27	0539:43	50	160	2327	5		
321	112	80/04/21	0541:45	0542:07	50	540	5145	5	2389	FS
322	112	80/04/21	0542:56	0543:02	80	280	4702	5		
323	112	80/04/21	0552:40	0553:40	110	55		2	2398	
324	112	80/04/21	1827:15	1827:58	50	125	860	2		
325	112	80/04/21	2306:00	2306:50	150	90		2	2375	
326	113	80/04/22	0100:50	0101:20	50	80		2		
327	113	80/04/22	0117:10	0118:30	120	112	5161	2	2396	
328	113	80/04/22	0521:30	0521:41	150	92		2	2396	SN
329	113	80/04/22	0531:28	0531:50	30	60		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
330	113	80/04/22	0714:20	0719:10	400	60		5		AX
331	115	80/04/24	0550:30	0557:40	450	270	6835	3	2396	
4262	115	80/04/24	0930:10	0930:55	207	112	2211	5	2396	I
332	115	80/04/24	1807:50	1809:30	135	77		2	2396	
333	116	80/04/25	1102:00	1104:05	185	80		2		
334	116	80/04/25	1910:00	1910:05	10	65		2	2411	
335	116	80/04/25	2040:40	2041:00	50	88		2	2411	
336	117	80/04/26	0057:40	0101:00	380	83	5243	2		
337	117	80/04/26	0106:30	0107:50	200	98	3154	2		
338	117	80/04/26	0110:00	0115:40	700	65	1720	2		EN
339	117	80/04/26	0345:00	0345:30	60	63		2	2411	
340	117	80/04/26	0348:00	0348:30	100	68		2	2411	
341	117	80/04/26	0602:10	0603:25	470	305	9011	5	2411	
342	117	80/04/26	0720:12	0720:50	135	125	3572	2	2411	SA
343	117	80/04/26	0932:30	0934:05	120	86		2	2411	
344	117	80/04/26	1143:30	1144:45	200	135	7938	2	2407	ES
345	117	80/04/26	1229:00	1229:06	25	305	1680	5		M
346	117	80/04/26	1244:35	1245:55	100	78		2	2411	EN
347	117	80/04/26	2030:43	2031:40	555	4200	2.09E+05	12	2411	M
348	117	80/04/26	2136:29	2137:33	155	165	4420	4		
349	117	80/04/26	2146:37	2147:30	53	83		4		
350	117	80/04/26	2333:52	2334:00	30	88		6	2407	
351	118	80/04/27	0106:10	0106:28	30	59		4	2411	
352	118	80/04/27	0109:15	0109:50	58	58		4		
353	118	80/04/27	0228:00	0229:15	340	235	14830	7	2416	
354	118	80/04/27	0250:50	0252:05	610	390	27400	6	2396	
355	119	80/04/28	0132:57	0133:12	40	80		5	2411	EN
356	119	80/04/28	0237:50	0238:00	30	54		2	2407	
357	119	80/04/28	0344:50	0344:55	10	160	530	4	2407	
358	119	80/04/28	0546:20	0547:00	80	60		3		
359	119	80/04/28	0725:00	0725:10	20	104	452	3		
360	119	80/04/28	0900:30	0902:24	300	700	18830	8		
361	119	80/04/28	0916:30	0917:15	90	60		2		
362	119	80/04/28	0926:45	0927:10	55	60		2		
363	119	80/04/28	0928:50	0928:58	25	74		2		
364	119	80/04/28	1038:20	1038:30	20	140	836	4		
365	119	80/04/28	1041:10	1041:30	80	110	1142	4		
4277	119	80/04/28	1227:05	1227:50	278	82	1235	2		I
366	119	80/04/28	1235:10	1238:50	480	900	87217	7	2407	EN
367	119	80/04/28	1546:10	1546:40	60	97		2	2396	
368	119	80/04/28	1712:15	1712:35	120	80		2	2396	SA,AX
369	119	80/04/28	1714:40	1715:30	300	92		2		
370	119	80/04/28	1724:00	1724:30	90	112	1433	2		
371	119	80/04/28	1727:10	1727:40	300	146	2968	2	2407	EN
372	119	80/04/28	1952:00	1952:33	100	101	2397	2	2407	
373	119	80/04/28	2026:00	2026:20	30	63		2		
374	119	80/04/28	2031:50	2032:30	50	125	1114	5		DG
375	119	80/04/28	2039:35	2040:00	254	10964	1.17E+05	15	2396	DG,FS
376	119	80/04/28	2117:30	2118:35	120	200	5926	5	2396	
377	119	80/04/28	2137:15	2138:56	110	82		2		
378	119	80/04/28	2143:20	2143:40	60	82		2		
379	119	80/04/28	2302:20	2302:40	180	122	3790	2	2396	
380	119	80/04/28	2332:30	2333:50	140	92		2		
381	119	80/04/28	2353:40	2354:07	60	110	1782	2		
382	120	80/04/29	0031:00	0031:10	30	72		2		
383	120	80/04/29	0034:50	0034:58	20	94		3		
384	120	80/04/29	0348:15	0348:20	15	85		2		
385	120	80/04/29	0355:10	0355:50	120	264	4729	2		
386	120	80/04/29	0406:40	0407:55	150	663	12647	10		FS
387	120	80/04/29	0426:40	0427:45	140	90		2		
388	120	80/04/29	0742:10	0742:27	100	82		2		
389	120	80/04/29	1047:00	1049:40	180	94		2		
390	120	80/04/29	1105:10	1105:30	20	92		2		
391	120	80/04/29	1238:30	1239:30	130	144	3780	2	2396	
392	120	80/04/29	1322:25	1322:35	15	120	652	2		DG
393	120	80/04/29	1402:42	1403:02	30	300	3170	5	2418	
394	120	80/04/29	1718:50	1720:15	170	100	349	2		
395	120	80/04/29	1814:35	1815:10	125	215	4150	4	2407	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
396	120	80/04/29	2016:10	2018:10	420	275	78100	4	2407	
397	120	80/04/29	2158:20	2158:50	45	69		2		
398	120	80/04/29	2337:20	2339:55	195	115	1300	4		
399	121	80/04/30	0215:10	0215:40	75	160	3110	5		EW
400	121	80/04/30	0223:45	0223:50	25	78	522	2		
401	121	80/04/30	0238:15	0238:30	40	62		2		
402	121	80/04/30	0245:00	0245:20	60	125	1040	4		
403	121	80/04/30	0345:00	0401:50	1500	110	39395	15	2407	DG
404	121	80/04/30	0543:25	0546:20	410	210	22900	2	2407	
405	121	80/04/30	0610:30	0610:50	45	80		2		
406	121	80/04/30	0729:00	0729:10	35	90		3		
407	121	80/04/30	0731:15	0731:42	45	82		2		
408	121	80/04/30	0741:10	0742:30	115	79		2		
409	121	80/04/30	0902:20	0903:00	70	75		2		
410	121	80/04/30	1102:10	1103:05	185	195	12200	2	2419	EN
411	121	80/04/30	1141:40	1142:00	30	100	1477	2	2396	DG
412	121	80/04/30	1407:35	1407:45	35	340	4470	5		FS
413	121	80/04/30	1531:35	1532:50	140	185	1760	5	2416	
414	121	80/04/30	1545:55	1548:45	440	150	11500	2		EN
415	121	80/04/30	1719:50	1720:15	40	150	654	4		
416	121	80/04/30	2021:10	2022:50	310	680	54000	6	2396	
417	122	80/05/01	0047:20	0048:00	110	80		2		
418	122	80/05/01	0717:00	0717:05	8	80		2		
419	122	80/05/01	1627:00	1628:30	1100	1480	2.97E+05	5	2418	SN,ES
420	122	80/05/01	1839:40	1841:10	135	100	2804	2	2420	
6631	122	80/05/01	1948:00	2002:55	1778	88	61564	5	2418	ND
421	122	80/05/01	2117:50	2119:50	450	120	15000	6	2407	
422	123	80/05/02	0030:50	0033:45	265	115	4100	3	2423	
423	123	80/05/02	0401:52	0402:00	30	90		2		
424	123	80/05/02	0436:20	0436:30	30	110	750	4		
425	123	80/05/02	0531:50	0532:00	20	100	910	2		
426	123	80/05/02	0537:30	0538:40	80	220	1920	5		
427	123	80/05/02	0553:50	0555:20	160	66		2		
428	124	80/05/03	0204:10	0205:30	190	2080	81640	8	2411	
429	124	80/05/03	0355:10	0355:25	70	105	1448	2		
430	124	80/05/03	0419:08	0419:20	30	65		2		
431	124	80/05/03	0722:05	0722:12	40	72		2		
432	124	80/05/03	1312:40	1315:10	520	150	22400	4	2418	SN,ES
433	124	80/05/03	1822:30	1822:42	70	88		2		
434	124	80/05/03	1829:40	1829:55	40	60		2		
435	124	80/05/03	2112:55	2124:25	800	130	10050	5		
436	124	80/05/03	2317:00	2317:18	130	550	10900	6	2411	
437	125	80/05/04	0041:05	0041:35	245	240	6600	5	2420	
438	125	80/05/04	0427:30	0428:25	80	90		4		
439	125	80/05/04	1034:42	1034:46	8	100	331	2		
440	125	80/05/04	1201:30	1202:00	140	122	4300	2		
441	125	80/05/04	1823:45	1824:45	240	290	11919	5	2411	
442	125	80/05/04	2014:45	2014:55	25	122	651	5		
443	125	80/05/04	2020:00	2020:35	130	65		2		
444	125	80/05/04	2111:00	2112:00	550	118	14458	10	2418	M ,SN,AX
445	125	80/05/04	2203:10	2203:48	60	275	3615	10	2418	
446	125	80/05/04	2335:04	2338:55	250	75		2	2411	
447	126	80/05/05	0256:20	0256:55	55	260	2408	5		EN
448	126	80/05/05	0407:00	0408:10	100	133	1679	5	2418	
449	126	80/05/05	0430:00	0430:30	60	52		2	2411	
450	126	80/05/05	0525:04	0525:12	50	82		2	2418	
451	126	80/05/05	1050:47	1051:15	90	76		2		
452	126	80/05/05	2109:00	2111:40	220	73		5		
453	126	80/05/05	2307:26	2307:46	50	69		2	2411	
454	126	80/05/05	2333:10	2333:29	60	90		2		
455	127	80/05/06	0406:40	0407:04	60	140	185	5		
456	127	80/05/06	1808:30	1809:48	155	400	11259	5	2411	DG,ND
457	128	80/05/07	0240:00	0240:50	90	68		2		
458	128	80/05/07	0403:08	0403:39	470	2600	14062	15		M ,FS
459	128	80/05/07	1032:59	1034:02	180	130	4925	2		
460	128	80/05/07	1307:04	1308:33	145	113	4250	5		
461	128	80/05/07	1455:19	1456:06	150	3600	66419	10	2418	M ,FS
462	128	80/05/07	1714:11	1714:30	75	66		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
463	128	80/05/07	2118:04	2118:16	30	54		2		
464	128	80/05/07	2321:15	2323:10	545	220	13914	5	2418	
465	129	80/05/08	0018:15	0018:30	30	78		3	2440	
466	129	80/05/08	0056:25	0057:35	385	3550	1.94E+05	12	2418	M
467	129	80/05/08	0419:37	0419:50	94	460	6260	5	2418	
468	129	80/05/08	0423:16	0423:25	72	71		2		
469	129	80/05/08	0843:04	0843:20	45	130	929	4		
470	129	80/05/08	0909:38	0910:30	130	110	2039	3	2440	
471	129	80/05/08	1340:00	1342:00	350	440	39340	8	2418	
472	129	80/05/08	1404:28	1404:50	45	85		3	2418	EN
473	129	80/05/08	1935:50	1937:10	440	1980	66000	7	2418	M
474	129	80/05/08	2104:45	2105:30	100	85		5		
475	129	80/05/08	2133:10	2134:00	280	85	3940	2		
476	130	80/05/09	0338:55	0339:00	20	115	530	2		
477	130	80/05/09	0531:30	0532:20	100	80		2		
478	130	80/05/09	0541:25	0541:50	60	82		2	2418	
479	130	80/05/09	0711:05	0712:35	635	10800	6.94E+05	15	2418	M ,FS
480	130	80/05/09	1032:40	1035:00	195	135	2210	2		
481	130	80/05/09	1521:55	1523:25	140	110	5428	2	2438	ND
482	130	80/05/09	2007:41	2008:09	600	70		2	2433	EW
483	131	80/05/10	0200:09	0201:29	360	68		2	2423	
484	131	80/05/10	0518:00	0518:50	80	106	1319	3	2438	
485	131	80/05/10	0526:25	0526:50	80	135	1483	2	2438	
486	131	80/05/10	1505:10	1505:58	64	55		2	2438	ND
487	131	80/05/10	1757:12	1757:13	200	440	7766	10	2438	FS
488	131	80/05/10	1951:28	1952:08	230	1750	96102	10	2438	
489	131	80/05/10	2004:20	2004:50	60	100	1790	2	2418	
490	131	80/05/10	2015:00	2015:05	60	98		2		
491	131	80/05/10	2021:10	2021:20	180	200	5031	10	2438	
495	133	80/05/12	0555:40	0557:50	220	150	2138	5	2438	
492	133	80/05/12	1013:40	1014:36	130	610	15163	5	2433	EW
493	133	80/05/12	1339:45	1340:18	60	82		2	2418	EW
494	133	80/05/12	1628:48	1629:17	80	87		2	2438	
10540	133	80/05/12	2331:43	2331:54	26	37				NS,GB
496	134	80/05/13	0210:50	0211:15	60	60		2	2452	
501	135	80/05/14	0853:00	0853:20	50	90		2		
497	135	80/05/14	1005:42	1006:00	50	60		2		
498	135	80/05/14	1009:19	1009:39	125	65		2		
499	135	80/05/14	1256:34	1257:25	960	1500	1.18E+05	14	2456	
500	135	80/05/14	1332:00	1332:20	60	65		2		
4268	135	80/05/14	1437:50	1438:05	30	64		5		I
4269	135	80/05/14	1517:35	1520:19	280	78		2	2438	I
502	135	80/05/14	1920:00	1920:18	100	720	14381	5	2438	
504	135	80/05/14	2139:20	2139:58	60	104	1228	2		
6752	136	80/05/15	0102:05	0102:56	301	2235	44927	6	2438	ND
503	136	80/05/15	1956:57	1959:56	240	87		2	2452	
505	137	80/05/16	0012:40	0013:20	100	160	2262	2	2456	
506	137	80/05/16	2058:20	2058:30	80	73		2		
507	137	80/05/16	2108:10	2108:20	40	93		5	2455	
508	137	80/05/16	2230:20	2230:43	320	164	15466	5	2456	
509	137	80/05/16	2243:20	2244:04	260	123	1442	2	2455	
510	137	80/05/16	2250:00	2250:42	240	108	2777	5		
511	138	80/05/17	0144:00	0144:32	80	250	2384	5	2456	
512	138	80/05/17	0202:25	0202:45	480	108	7807	2	2455	
513	138	80/05/17	0221:04	0221:54	100	80		2		
514	138	80/05/17	0540:19	0540:57	70	87		2	2438	
515	138	80/05/17	0635:51	0637:07	185	96		2	2456	SA
516	138	80/05/17	1009:20	1012:45	500	107	10607	5	2455	
517	138	80/05/17	1322:55	1323:17	35	250	1507	5	2455	
518	139	80/05/18	0349:20	0350:00	160	87		2		
4270	139	80/05/18	0817:50	0819:40	567	122	7720	5	2456	I
519	139	80/05/18	1254:08	1254:45	90	115	1835	2	2464	
520	139	80/05/18	1342:20	1344:48	250	87	1193	2	2464	
521	140	80/05/19	0538:40	0539:18	135	420	11207	5	2452	
12652	140	80/05/19	0923:58	0924:53	122	80	1170	15		NS,GB
522	140	80/05/19	1452:20	1452:42	40	108	740	5		
523	140	80/05/19	1520:20	1520:47	120	98		5	2470	
524	140	80/05/19	1736:04	1737:04	87	58		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
525	141	80/05/20	0210:00	0211:20	110	85	522	2		
526	141	80/05/20	0216:00	0218:20	380	171	7225	5	2469	
527	141	80/05/20	0629:44	0630:40	65	114	1955	2		
528	141	80/05/20	0956:45	0957:12	50	68		2		
529	141	80/05/20	1117:50	1120:00	220	76		2		
530	141	80/05/20	1206:22	1207:39	80	71		2		
531	141	80/05/20	1423:25	1426:20	3600	65		2	2469	SN
532	141	80/05/20	1939:20	1939:56	60	198	1351	5		
533	141	80/05/20	2304:25	2304:52	51	91		2		
534	142	80/05/21	0324:40	0325:41	160	82		2		
535	142	80/05/21	0519:42	0520:28	126	70		2		
536	142	80/05/21	1206:48	1207:48	100	60		2		
537	142	80/05/21	1448:15	1448:40	300	300	14867	2	2470	
538	142	80/05/21	2053:35	2055:53	2376	14300	3.01E+06	15	2456	M ,ES
539	143	80/05/22	0200:30	0201:26	90	87		2		
540	143	80/05/22	2053:37	2100:54	665	154	51780	2	2465	
541	143	80/05/22	2257:10	2257:30	30	84		2	2465	
6753	144	80/05/23	0623:36	0624:10	142	69		2		
542	144	80/05/23	0950:30	0950:40	10	95		2		
543	144	80/05/23	0953:50	0954:10	30	81		2		
544	144	80/05/23	1023:50	1024:00	10	76		2		
545	144	80/05/23	1156:40	1156:50	30	114	596	2		
546	144	80/05/23	1440:40	1441:15	100	345	8487	5	2470	
547	144	80/05/23	1444:45	1444:52	15	75		2		
548	144	80/05/23	1445:40	1445:50	40	160	1255	2		
549	144	80/05/23	1450:18	1450:47	120	61		2		
550	144	80/05/23	2258:47	2259:10	90	204	2680	2		
551	144	80/05/23	2302:40	2302:45	10	6380		14	2470	AX
552	145	80/05/24	0018:12	0018:30	100	147	1401	2	2470	
553	145	80/05/24	0047:30	0050:30	260	185	9339	2	2465	ES
554	145	80/05/24	0622:40	0624:50	400	102	3877	2		SN
555	145	80/05/24	0652:50	0653:40	160	149	3536	2	2456	
556	145	80/05/24	0829:50	0830:20	50	85		2		
557	145	80/05/24	0832:40	0833:30	70	117	2826	2	2469	
558	145	80/05/24	1135:50	1135:50	25	74		2	2470	
559	145	80/05/24	1316:30	1316:50	40	75		2	2456	
560	145	80/05/24	1319:10	1319:25	30	70		2		
561	145	80/05/24	1505:00	1510:10	360	83		5		AX
12673	145	80/05/24	1553:53	1553:59	12	70	170	5		NS,GB
562	146	80/05/25	0032:50	0038:20	780	70	2780	2		
563	146	80/05/25	0127:30	0130:21	880	198	30727	5	2456	SN,ES
564	146	80/05/25	0327:10	0327:50	110	212	5135	5		
565	146	80/05/25	1238:50	1239:20	60	70		2		
566	146	80/05/25	1550:20	1550:40	80	90		2	2470	SN
567	146	80/05/25	1727:30	1727:50	65	61		2		
568	146	80/05/25	1729:30	1729:35	35	66		2	2478	
569	146	80/05/25	2052:40	2052:50	25	77		5		
570	146	80/05/25	2354:20	2356:00	670	146	8537	5	2469	
571	147	80/05/26	1304:06	1305:38	170	80		2	2478	
572	147	80/05/26	1424:13	1425:39	280	118	1280	2		
573	147	80/05/26	1613:44	1614:58	135	77		2		
574	147	80/05/26	1727:47	1728:08	140	260	5502	5	2470	
575	148	80/05/27	0501:00	0502:32	168	92		5		
576	148	80/05/27	0821:00	0821:45	215	258	10780	5	2470	
577	148	80/05/27	1600:01	1600:40	147	590	16109	5	2474	
578	148	80/05/27	2103:41	2104:38	140	990	26857	5	2478	
579	149	80/05/28	0209:08	0209:48	95	375	12128	5		
580	149	80/05/28	0213:20	0215:16	280	2334	1.18E+05	5	2470	
581	149	80/05/28	0938:21	0938:39	55	78		2		
582	149	80/05/28	1005:17	1005:23	20	98		2		
583	149	80/05/28	1007:44	1008:29	70	73		2		
584	149	80/05/28	1418:50	1419:25	90	595	16384	5	2478	FS
585	149	80/05/28	1550:00	1552:20	1090	315	35701	10	2470	
586	149	80/05/28	1719:58	1720:20	700	513	97500	5	2470	SN
587	149	80/05/28	2207:30	2207:45	403	228	18661	2	2470	
588	149	80/05/28	2219:25	2219:55	92	107	573	2		
589	149	80/05/28	2343:30	2343:30	1070	1558	1.26E+05	15	2470	SN,ND
590	150	80/05/29	0332:52	0334:41	240	93	1125	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
591	150	80/05/29	0339:55	0340:20	600	89		5		
592	150	80/05/29	0509:20	0510:50	1220	755	64502	11	2470	
593	150	80/05/29	0643:50	0644:10	40	88		2		
594	150	80/05/29	0755:35	0757:20	250	84		2	2476	
595	150	80/05/29	0947:50	0948:50	90	82		5		
596	150	80/05/29	1005:50	1006:20	50	79		5		
597	150	80/05/29	1111:50	1112:30	80	76		2		
598	150	80/05/29	1146:40	1147:10	50	80		2		
599	150	80/05/29	2351:40	2352:05	70	99		2		
600	151	80/05/30	0201:12	0201:25	30	120	413	5		
601	151	80/05/30	1055:50	1056:45	70	68		2	2470	
602	151	80/05/30	2051:22	2052:24	114	117	1789	5	2476	
603	152	80/05/31	0612:20	0612:39	145	83		2		
604	152	80/05/31	0743:48	0744:18	110	253	5652	5	2478	
605	152	80/05/31	2047:40	2048:20	70	83		2		
606	153	80/06/01	0029:00	0029:10	30	97		5		
607	153	80/06/01	1719:00	1719:30	170	74		2		SN
608	153	80/06/01	1923:00	1926:20	240	195	13312	2	2490	ES
609	153	80/06/01	2057:10	2057:30	40	106	501	2		
610	153	80/06/01	2058:00	2058:20	60	120	922	5	2478	
611	154	80/06/02	0012:30	0013:20	65	148	799	2	2478	
612	154	80/06/02	0306:20	0306:50	40	92		2		
613	154	80/06/02	0821:00	0822:10	100	179	2964	2	2490	
614	154	80/06/02	0917:50	0918:30	380	85		2	2470	
615	154	80/06/02	0933:00	0933:25	95	77		2		
616	154	80/06/02	1225:05	1225:25	30	82		2	2478	
12674	154	80/06/02	1320:08	1320:09	16	79	115	5		NS,GB
617	154	80/06/02	1406:50	1407:00	25	75		2	2490	
618	154	80/06/02	1549:30	1550:00	55	77		2		
619	154	80/06/02	2357:42	2358:22	108	86		2	2478	
620	155	80/06/03	0013:18	0017:07	383	88		2	2490	
621	155	80/06/03	0740:04	0741:41	399	137	3407	5	2490	
622	155	80/06/03	0753:54	0754:52	510	106	6606	5		
623	155	80/06/03	0803:43	0807:24	551	144	19427	3	2490	
624	155	80/06/03	0934:13	0935:23	102	57		2	2478	
625	155	80/06/03	0939:03	0942:08	362	197	12250	5		
626	155	80/06/03	1139:12	1142:20	490	908	69495	5	2490	
627	155	80/06/03	1411:58	1414:04	337	336	23231	3	2490	
628	155	80/06/03	2042:56	2043:18	38	90		2	2490	
629	155	80/06/03	2100:34	2100:57	130	137	1305	2	2490	
630	155	80/06/03	2103:40	2104:06	80	90		2		
631	156	80/06/04	0002:05	0003:16	350	166	12497	2	2490	
632	156	80/06/04	0015:30	0016:28	264	97	2340	2	2490	
633	156	80/06/04	0207:49	0208:43	90	112	1523	2		
634	156	80/06/04	0653:56	0654:37	279	35200	1.37E+06	15	2490	FS
635	156	80/06/04	0752:16	0834:13	2543	613	2.45E+05	10	2490	EN
636	156	80/06/04	0907:53	0911:02	480	104	7110	2		
637	156	80/06/04	0954:31	0956:10	213	77		2		
638	156	80/06/04	1054:00	1054:40	80	128	1059	2		
639	156	80/06/04	1405:40	1406:40	120	101	1232	2		
640	156	80/06/04	1533:40	1534:05	30	128	1558	5		
641	156	80/06/04	1738:00	1738:10	40	131	1091	2	2478	
642	156	80/06/04	2057:45	2058:05	30	80		2		
643	157	80/06/05	0021:50	0026:10	710	190	28700	2	2490	
644	157	80/06/05	0128:30	0129:25	90	109	1496	2		
645	157	80/06/05	0246:50	0247:00	10	92		5		
646	157	80/06/05	0419:30	0422:00	210	85		2	2478	
647	157	80/06/05	0448:10	0448:40	150	70		2		
648	157	80/06/05	0453:20	0454:00	230	160	3219	2	2490	
649	157	80/06/05	0604:40	0605:50	160	220	5439	5	2478	
650	157	80/06/05	0629:30	0629:35	90	70		2		
651	157	80/06/05	0645:20	0645:40	50	525	6393	5	2478	
652	157	80/06/05	0652:00	0653:00	195	75		2	2478	
653	157	80/06/05	0954:10	0954:40	60	95		2		
654	157	80/06/05	1135:40	1136:10	210	120	5121	2	2490	
655	157	80/06/05	1224:50	1225:10	40	90		2		
656	157	80/06/05	1314:10	1314:30	40	98		2		
657	157	80/06/05	1359:30	1400:30	110	170	1474	5		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
658	157	80/06/05	2027:40	2028:40	90	132	1963	2	2478	
659	157	80/06/05	2031:56	2032:10	20	105	600	5		
660	157	80/06/05	2039:20	2039:30	30	104	755	2	2478	
661	157	80/06/05	2221:10	2221:20	30	88		2		
662	157	80/06/05	2230:05	2230:20	200	164	2482	5	2478	
663	157	80/06/05	2339:30	2339:40	20	131	222	2	2490	
664	157	80/06/05	2340:20	2342:30	220	96	3017	2		ND
665	158	80/06/06	0003:35	0005:20	166	81		2		
666	158	80/06/06	0018:40	0019:20	94	100	1808	2		
667	158	80/06/06	0140:45	0141:20	87	166	3021	2		
668	158	80/06/06	0244:30	0246:00	227	177	3564	5		
669	158	80/06/06	0341:21	0344:18	245	216	4199	2		
670	158	80/06/06	0434:42	0435:02	45	91		2		
671	158	80/06/06	0456:30	0456:45	91	79		2		
672	158	80/06/06	0951:45	0952:29	85	194	2384	5		
673	158	80/06/06	1125:40	1126:34	280	250	2877	5	2490	
674	158	80/06/06	1142:25	1142:33	35	8466	47208	15	2490	M ,FS
675	158	80/06/06	1217:02	1217:18	20	74		5		
676	158	80/06/06	1355:30	1356:40	420	116	4032	2	2490	
677	158	80/06/06	1550:40	1552:20	130	296	4581	5	2495	ES
678	158	80/06/06	1710:30	1722:10	1474	201	13393	5	2495	
679	158	80/06/06	2334:15	2334:47	93	3558	29485	10		M ,FS
680	158	80/06/06	2344:33	2345:01	94	102	703	2	2490	
681	158	80/06/06	2348:31	2349:14	65	74		2		ND
682	159	80/06/07	0027:19	0027:26	21	85		2		
683	159	80/06/07	0116:24	0117:27	368	8365	4.55E+05	15	2495	M ,FS
684	159	80/06/07	0244:16	0244:43	56	79		5		
685	159	80/06/07	0247:57	0248:54	100	66		5		
686	159	80/06/07	0251:49	0252:30	97	68		2		
687	159	80/06/07	0253:41	0254:39	321	144	3331	5	2495	
688	159	80/06/07	0310:51	0312:15	691	39391	1.33E+06	15	2495	M
689	159	80/06/07	0554:02	0554:17	47	97	255	5		
690	159	80/06/07	0615:15	0615:34	51	163	2553	5		
691	159	80/06/07	0725:24	0725:45	104	398	4547	10	2495	SN,FS
692	159	80/06/07	1123:11	1125:40	200	103	7217	2	2495	SA
693	159	80/06/07	1228:37	1229:39	106	113	26305	2	2495	ES
694	159	80/06/07	1358:49	1359:05	49	75		2		
695	159	80/06/07	1727:48	1727:58	29	78		2		
696	160	80/06/08	0427:05	0428:10	495	438	8027	5		FS
697	160	80/06/08	0616:30	0617:10	64	78		2		
698	160	80/06/08	0727:15	0727:30	30	142	1400	5		
699	160	80/06/08	1036:10	1036:45	750	347	81640	5		SN,ES
700	160	80/06/08	1534:50	1535:00	20	84		2		
701	160	80/06/08	1900:15	1900:18	11	102	1305	2	2495	
702	161	80/06/09	0011:04	0011:22	63	128	2212	5	2490	
703	161	80/06/09	0108:01	0108:18	49	74		2		
704	161	80/06/09	0113:08	0113:33	39	106	375	5		
705	161	80/06/09	0141:49	0142:42	70	72		2		
706	161	80/06/09	0251:16	0251:30	27	1102	6073	10		FS
707	161	80/06/09	0255:22	0257:16	161	174	3515	5		M
708	162	80/06/10	0252:56	0254:53	180	156	4640	2	2507	
709	162	80/06/10	0802:44	0803:36	70	73		2		
710	164	80/06/12	0130:10	0130:30	43	141	2845	5	2511	
4275	164	80/06/12	0559:25	0559:46	80	93		2	2507	I
711	164	80/06/12	2206:10	2207:25	140	453	5494	5	2511	
712	165	80/06/13	0256:56	0257:07	20	138	1913	2		
713	165	80/06/13	0257:56	0258:28	80	388	10759	5	2507	
714	165	80/06/13	0621:21	0622:25	140	112	2412	2	2502	
715	165	80/06/13	0811:35	0812:22	640	227	25687	5	2507	
716	165	80/06/13	2232:20	2234:03	200	1524	1.22E+05	5		M ,EN
4299	166	80/06/14	0111:20	0114:00	862	83	3056	2	2502	I
717	166	80/06/14	0623:35	0631:34	580	266	10912	5		
718	166	80/06/14	1343:25	1347:30	600	108	24841	5	2506	ES
719	166	80/06/14	1658:00	1701:40	565	508	21518	10	2515	
720	167	80/06/15	0410:05	0414:15	480	88	4141	10		
721	167	80/06/15	0423:40	0426:25	790	438	53530	5		
722	167	80/06/15	0800:20	0800:40	65	174	1898	2		
723	167	80/06/15	0802:40	0802:55	55	76		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
724	167	80/06/15	0813:10	0813:35	87	88		2		
725	167	80/06/15	1131:30	1132:15	110	195	4380	5		EN
726	167	80/06/15	1305:05	1305:25	91	90		2		
727	167	80/06/15	1439:30	1439:55	75	99		2		
728	167	80/06/15	1530:25	1531:55	100	90		2		
729	167	80/06/15	1844:03	1844:57	178	307	9506	5	2517	
730	167	80/06/15	2028:00	2028:41	110	100	828	2	2517	
731	168	80/06/16	2144:16	2145:56	360	103	8729	10	2517	M
732	168	80/06/16	2327:47	2331:16	440	100	55719	2	2517	
733	169	80/06/17	0003:40	0016:03	1020	105	11561	2	2517	
734	169	80/06/17	2143:20	2144:50	1170	70	13300	5		
735	170	80/06/18	1852:10	1853:40	150	83		2	2517	
4265	170	80/06/18	2139:40	2141:51	496	100	10651	3		I
736	170	80/06/18	2229:21	2229:57	60	82		5	2519	
737	170	80/06/18	2317:00	2317:17	29	74		2		
738	170	80/06/18	2322:18	2322:34	55	85		2	2523	
739	170	80/06/18	2336:59	2337:16	99	343	6315	10	2522	FS
740	171	80/06/19	0002:38	0004:18	200	87	2266	5		
741	171	80/06/19	0007:35	0008:04	57	129	1115	5		
742	171	80/06/19	0134:05	0134:15	22	86		2		
743	171	80/06/19	0223:47	0224:05	160	71		2		SN
744	171	80/06/19	0427:08	0429:07	161	64		5		
745	171	80/06/19	0500:18	0500:19	46	136	1089	5		
746	171	80/06/19	1555:06	1556:38	205	103	2665	2		
747	171	80/06/19	1831:49	1839:01	520	1317	63347	10	2522	
748	171	80/06/19	1854:16	1857:41	380	1265	73333	5	2529	M
749	171	80/06/19	2020:51	2023:07	200	192	6723	5	2530	
750	171	80/06/19	2135:00	2136:35	160	98	2449	5		
751	171	80/06/19	2346:21	2348:44	240	76	1475	2	2514	
752	172	80/06/20	0320:33	0321:49	150	113	2599	2	2517	EN
753	172	80/06/20	0444:57	0445:09	60	109	623	2		
754	172	80/06/20	0446:54	0447:32	100	143	929	2		
755	172	80/06/20	0450:06	0451:17	140	165	4689	2	2516	
756	172	80/06/20	1254:18	1255:26	100	92		2		
757	172	80/06/20	1832:00	1832:17	52	92		2		
758	172	80/06/20	2009:45	2010:13	108	215	2300	5	2522	
759	172	80/06/20	2021:04	2022:21	148	168	1595	5		
760	172	80/06/20	2133:12	2135:08	562	117	16801	5		
761	173	80/06/21	0045:18	0058:22	1523	435	1.99E+05	10	2528	SN
762	173	80/06/21	0112:40	0118:40	1352	141391	4.14E+06	15	2502	
763	173	80/06/21	0139:02	0140:12	386	103	80402	5		EN,ND
764	173	80/06/21	0248:29	0252:27	392	309	15655	5		
765	173	80/06/21	0447:24	0448:34	228	269	11619	5		
766	173	80/06/21	0553:28	0554:12	235	735	12716	10		M ,FS
767	173	80/06/21	0625:54	0626:23	72	83		2		
768	173	80/06/21	0628:03	0629:26	181	125	1775	5		
769	173	80/06/21	1044:17	1044:30	170	193	6549	2		SA
4263	173	80/06/21	1726:10	1727:03	137	161	5014	2		I
4264	173	80/06/21	1733:05	1738:32	327	76		2	2522	I
770	173	80/06/21	2030:03	2030:30	175	162	3311	5		
771	173	80/06/21	2215:05	2216:45	275	78	1933	2	2507	
772	173	80/06/21	2354:00	2357:10	365	76	2613	5		
773	174	80/06/22	0432:25	0432:55	45	88		2		
774	174	80/06/22	1705:05	1705:15	40	81		2		
775	174	80/06/22	1857:30	1904:20	900	150	13541	5	2524	
776	174	80/06/22	2013:40	2014:15	40	72		2	2530	
777	174	80/06/22	2129:35	2133:10	540	98	16000	5		
778	174	80/06/22	2155:20	2155:40	30	84		2		
779	174	80/06/22	2157:05	2157:20	40	88		2	2524	
780	174	80/06/22	2212:20	2214:05	185	90	600	5		
781	175	80/06/23	0221:05	0221:15	80	153	1970	2	2524	
782	175	80/06/23	0614:00	0615:25	100	110	894	5		
783	175	80/06/23	0622:05	0624:35	340	490	28364	5	2532	
784	175	80/06/23	0731:40	0731:50	20	99		2		
785	175	80/06/23	0916:20	0917:20	410	81	1229	2		
786	175	80/06/23	1054:00	1055:40	260	94	2621	2		
787	175	80/06/23	1228:30	1229:10	140	76	522	2		
788	175	80/06/23	1235:30	1238:25	870	136	13546	2	2524	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
789	175	80/06/23	1516:35	1517:50	155	116	2132	2	2524	
790	175	80/06/23	1827:39	1828:16	80	74		2		
791	175	80/06/23	2127:14	2128:34	480	151	15984	5	2530	
792	175	80/06/23	2208:48	2211:06	260	78	1587	2		
793	175	80/06/23	2309:50	2312:06	340	519	38057	2	2522	
794	175	80/06/23	2333:59	2335:47	760	647	1.32E+05	5	2524	
795	175	80/06/23	2359:30	2359:54	60	104	1996	2		
796	176	80/06/24	0002:39	0003:04	90	79	642	2	2522	
797	176	80/06/24	0255:08	0255:41	80	96		2	2522	
798	176	80/06/24	0600:58	0601:27	50	87		5	2522	
799	176	80/06/24	1042:57	1043:43	132	91		2	2524	
800	176	80/06/24	1521:48	1522:51	280	517	30789	5	2522	
801	176	80/06/24	1649:48	1650:13	40	87		2		
802	176	80/06/24	1702:36	1702:56	30	76		2	2522	
803	176	80/06/24	1943:23	1958:20	1621	1302	59079	10	2530	M ,FS
804	176	80/06/24	2124:52	2126:51	180	134	7146	5		
805	176	80/06/24	2145:56	2147:46	150	72		2	2532	
806	176	80/06/24	2303:24	2305:54	240	70	14680	2	2522	
807	177	80/06/25	0047:22	0048:06	220	136	2053	2	2530	
808	177	80/06/25	0355:04	0356:32	240	89	2176	2		SA
809	177	80/06/25	1236:04	1238:11	448	275	22579	5	2522	
6830	177	80/06/25	1521:37	1521:44	20	80	297	2	2519	
810	177	80/06/25	1548:27	1551:59	665	2880	3.97E+05	10	2522	
811	177	80/06/25	1710:20	1710:30	30	78		2		
812	177	80/06/25	1723:38	1724:32	121	116	43766	2	2522	
813	177	80/06/25	1939:50	1944:40	520	105	17104	5		SN,ND
814	177	80/06/25	1952:50	1953:05	25	94		2		
815	177	80/06/25	2121:50	2123:00	400	139	15131	10	2522	SN
816	177	80/06/25	2202:40	2204:40	340	66		2		ND
817	177	80/06/25	2219:00	2219:10	20	67		5		
818	177	80/06/25	2345:30	2347:40	370	86	3170	5	2524	
819	178	80/06/26	0119:10	0119:20	60	97		5	2530	
820	178	80/06/26	0354:50	0355:10	40	73		2		
821	178	80/06/26	0418:40	0419:30	60	118	1445	2		
822	178	80/06/26	0742:30	0742:50	30	86		2		
823	178	80/06/26	0752:20	0752:50	55	75		2		
824	178	80/06/26	1822:10	1822:35	60	142	2176	5		
825	178	80/06/26	1945:20	1945:40	145	153	2898	2	2522	SN
826	178	80/06/26	2159:50	2201:25	525	91	4535	5	2522	
827	178	80/06/26	2339:35	2340:25	470	95	6400	5		
828	179	80/06/27	0036:15	0037:00	150	148	4805	5	2530	
829	179	80/06/27	0111:55	0113:00	525	135	6500	2	2522	
830	179	80/06/27	0422:05	0422:30	50	86		2		
831	179	80/06/27	0429:20	0430:10	125	65	1200	5		
832	179	80/06/27	0433:20	0434:10	230	86	4715	5		
833	179	80/06/27	0438:50	0439:50	210	84	4095	5		EN
834	179	80/06/27	0606:05	0607:15	225	153	4368	5		
835	179	80/06/27	1221:00	1221:15	45	69		2		
4276	179	80/06/27	1346:23	1348:17	190	125	4052	5	2522	I
836	179	80/06/27	1704:40	1705:20	70	118	1828	5		
837	179	80/06/27	1710:45	1710:50	30	95		5		
838	179	80/06/27	2032:00	2032:15	40	66		2		
839	179	80/06/27	2032:55	2033:00	20	60		2		
840	179	80/06/27	2331:10	2332:10	110	68		2	2522	
841	180	80/06/28	0244:50	0246:00	1020	1283	1.16E+05	10	2519	
842	180	80/06/28	0745:30	0749:45	460	785	48900	10	2530	EN,FS
843	180	80/06/28	1327:15	1328:45	415	247	13800	5	2522	
844	180	80/06/28	1513:50	1515:20	160	90		2		
845	180	80/06/28	1654:05	1655:00	140	67	530	5	2522	
846	180	80/06/28	1708:20	1708:50	55	83		2	2538	
847	180	80/06/28	1845:20	1845:30	50	83		2		
848	180	80/06/28	1856:55	1857:30	160	107	1606	5	2522	
849	180	80/06/28	2259:20	2259:50	60	159	3809	5	2522	
850	180	80/06/28	2302:35	2302:40	20	65	213	2		
851	181	80/06/29	0233:00	0234:50	1440	5556	6.30E+05	10		
852	181	80/06/29	0413:30	0414:30	105	101	958	5		
853	181	80/06/29	1040:10	1041:50	1110	9348	5.44E+05	15		M
854	181	80/06/29	1702:00	1703:10	110	98		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
855	181	80/06/29	1802:40	1803:10	370	441	25625	5	2532	SN
856	181	80/06/29	1822:00	1823:10	825	3348	3.88E+05	10	2522	
857	181	80/06/29	2021:30	2021:50	60	71		2		
858	181	80/06/29	2026:45	2027:05	20	66		2		
859	181	80/06/29	2130:30	2130:40	45	81		2		
860	181	80/06/29	2143:00	2146:00	300	97	1525	5		
861	181	80/06/29	2158:50	2159:20	70	83		2	2522	
862	181	80/06/29	2211:10	2211:50	80	189	4974	5		ES
863	181	80/06/29	2322:10	2322:50	140	64		2		
864	181	80/06/29	2334:10	2335:40	180	73		2		
865	182	80/06/30	0108:20	0108:40	45	70		2		
866	182	80/06/30	0419:50	0420:25	270	114	3342	5		
867	182	80/06/30	0721:40	0722:00	105	211	3235	5	2544	
868	182	80/06/30	0740:50	0741:50	250	98	5136	2	2530	EN
869	182	80/06/30	1045:20	1046:00	130	75		2	2530	
870	182	80/06/30	1335:00	1338:50	285	180	12896	5	2544	
871	182	80/06/30	1521:10	1528:00	1020	207	13443	5	2544	
872	182	80/06/30	1818:20	1825:00	850	157	25845	5	2544	
873	182	80/06/30	1946:10	1947:45	260	181	1253	2	2544	
874	182	80/06/30	2132:10	2134:20	230	90	3542	2		
875	183	80/07/01	0117:44	0118:05	130	121	1463	2	2540	
876	183	80/07/01	1350:52	1351:30	160	278	4571	5		
877	183	80/07/01	1624:59	1627:29	831	27235	2.60E+06	15	2544	M ,FS
878	183	80/07/01	2253:31	2253:40	22	85	285	15		AX
879	185	80/07/03	0022:22	0023:02	80	2344	25576	10	2544	FS
4284	185	80/07/03	0253:35	0254:05	60	69		2	2531	I
4285	186	80/07/04	0659:15	0659:45	65	81		2		I
881	187	80/07/05	0015:12	0019:17	460	94	8058	5	2550	SN
882	187	80/07/05	0042:34	0042:42	16	192	811	5		
883	187	80/07/05	0153:14	0153:38	53	200	1245	5	2550	
884	187	80/07/05	0156:35	0158:05	750	87	7200	3		
885	187	80/07/05	0735:29	0738:21	186	382	29097	10	2550	M ,EN
886	187	80/07/05	1009:53	1010:03	34	175	786	5		
887	187	80/07/05	1025:34	1025:43	36	82		2		
888	187	80/07/05	1455:13	1456:26	149	85		2	2550	
889	187	80/07/05	1615:16	1615:49	70	99		2		
890	187	80/07/05	1634:18	1636:22	140	70		2	2552	
891	187	80/07/05	2237:24	2241:35	3195	6303	2.64E+06	10	2550	SN,ES,FS
892	188	80/07/06	0418:04	0419:54	420	327	16610	5	2550	
893	188	80/07/06	0957:40	0958:06	37	93		2		
894	189	80/07/07	0104:26	0104:56	35	133	448	5		
895	189	80/07/07	0536:33	0536:41	13	112	349	5		
896	189	80/07/07	1013:23	1014:09	120	114	2463	2		
897	189	80/07/07	1017:28	1017:43	20	280	1169	5		
898	189	80/07/07	1141:24	1143:46	180	237	1262	5		
899	189	80/07/07	1146:27	1151:09	580	244	26159	5	2550	
900	189	80/07/07	1213:01	1213:18	40	74		2	2550	
901	189	80/07/07	1355:03	1355:31	70	182	2163	5		
902	189	80/07/07	1446:07	1450:03	320	89	2032	5	2550	
903	189	80/07/07	1615:12	1616:31	160	71		2		
904	189	80/07/07	1619:28	1620:28	120	70		2		
905	189	80/07/07	1629:07	1631:24	240	75	1550	5		
906	189	80/07/07	1751:00	1753:10	610	309	18125	10		SN
907	189	80/07/07	2113:40	2114:20	280	725	13425	5		M ,FS
908	189	80/07/07	2246:20	2247:15	125	95		4		ND
909	190	80/07/08	0050:10	0051:10	225	193	5006	5	2550	
910	190	80/07/08	0057:40	0057:50	45	79		2		
911	190	80/07/08	0239:30	0239:50	45	239	1377	5		
912	190	80/07/08	1447:30	1450:40	450	74		2		
913	190	80/07/08	1919:41	1920:08	40	65		2		
914	190	80/07/08	1933:22	1933:45	45	70		2		
915	190	80/07/08	1951:21	1952:37	101	84		2		
916	190	80/07/08	2058:52	2059:04	25	113	573	5		
917	190	80/07/08	2102:50	2103:20	96	90		5		
918	190	80/07/08	2106:05	2106:17	29	87		5		
919	190	80/07/08	2112:17	2112:43	63	69		5		
920	190	80/07/08	2314:02	2314:25	76	94		2	2559	ND
921	191	80/07/09	0145:31	0145:43	64	427	6046	10		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
922	191	80/07/09	0214:45	0215:12	115	523	59760	10		
923	191	80/07/09	2112:45	2112:55	75	69		2	2561	
924	191	80/07/09	2257:25	2259:50	305	138	2288	5	2559	
925	192	80/07/10	0150:15	0150:20	15	139	429	5		
926	192	80/07/10	0227:40	0228:20	170	209	1500	5		
927	192	80/07/10	0355:50	0356:55	180	535	7593	5		
928	192	80/07/10	0501:35	0501:45	45	120	791	2		
929	192	80/07/10	0943:20	0943:25	90	95		2		
930	192	80/07/10	1017:50	1018:15	155	79		2		
12675	192	80/07/10	1112:48	1112:51	10	54	73	6		NS,GB
931	192	80/07/10	1259:40	1300:50	170	68		5	2562	
932	192	80/07/10	1439:00	1441:45	275	67	1081	2		
933	192	80/07/10	1558:05	1558:15	40	68		15		AX,EW
934	192	80/07/10	1738:55	1739:20	35	114	260	5	2561	
935	192	80/07/10	2122:05	2122:20	55	62		2		
936	192	80/07/10	2125:00	2126:05	120	53		5		
937	193	80/07/11	0153:25	0154:25	150	76		2		
938	193	80/07/11	0531:15	0531:35	40	103	501	5		
939	193	80/07/11	0626:40	0629:15	200	70	747	2		SN
940	193	80/07/11	0815:05	0817:50	315	68	3622	2		
941	193	80/07/11	0823:40	0824:00	100	63	900	2		
4286	193	80/07/11	1200:00	1201:00	163	185	4382	3		I
942	193	80/07/11	1250:25	1250:50	50	197	3038	5		
943	193	80/07/11	1251:25	1253:00	145	180	2337	5		ND
944	193	80/07/11	1255:25	1255:45	475	408	12051	5	2562	ND
4278	193	80/07/11	1511:58	1513:41	640	319	15189	10	2562	I
945	193	80/07/11	1912:12	1913:27	140	87		5	2562	
946	193	80/07/11	1943:56	1944:41	130	224	8592	5	2562	
947	193	80/07/11	2223:44	2226:55	360	105	6636	2	2562	
948	194	80/07/12	0215:39	0216:55	760	90	19151	2	2562	
949	194	80/07/12	0528:44	0529:49	120	80		2		
950	194	80/07/12	0704:27	0706:03	140	81		2		
951	194	80/07/12	0805:40	0806:07	80	155	650	2		
4280	194	80/07/12	0942:52	0943:06	80	228	940	5	2562	I
952	194	80/07/12	1110:40	1117:15	983	1406	2.62E+05	5	2562	M
953	194	80/07/12	1254:09	1255:00	140	92		5		ND
4279	194	80/07/12	1341:36	1343:10	200	1621	42967	5	2562	I
954	194	80/07/12	1433:07	1436:01	300	93	5952	5		
955	194	80/07/12	1444:10	1444:56	130	66		2		
956	194	80/07/12	1735:25	1736:15	265	2799	63124	10	2562	M
957	194	80/07/12	1921:05	1921:10	25	67		2		
958	194	80/07/12	1922:45	1923:30	140	115	2604	5	2562	
959	194	80/07/12	2225:50	2226:05	35	84		2	2562	
960	194	80/07/12	2230:15	2230:35	110	78		2		
961	194	80/07/12	2237:10	2240:20	215	84	1043	2		
962	194	80/07/12	2257:50	2258:15	85	74		2		
963	194	80/07/12	2300:40	2301:30	60	71		2		
964	195	80/07/13	0027:30	0027:40	35	70		2		ND
965	195	80/07/13	0028:50	0029:05	40	90		2		
966	195	80/07/13	0351:20	0352:15	160	72		2		
967	195	80/07/13	0356:05	0356:10	45	61		2		
968	195	80/07/13	0626:05	0629:25	200	71	924	5		
969	195	80/07/13	1116:10	1117:00	95	64		10	2562	
970	195	80/07/13	1430:25	1433:15	555	140	15180	5	2562	
971	195	80/07/13	1604:00	1604:55	155	91		2		
972	195	80/07/13	1759:50	1801:00	295	278	12666	2	2562	
973	195	80/07/13	1915:50	1918:10	625	841	42024	5	2562	M
974	195	80/07/13	1929:55	1930:35	155	137	1689	2		
975	196	80/07/14	0038:35	0039:00	35	73		2		
976	196	80/07/14	0042:20	0042:35	85	93		5		
977	196	80/07/14	0134:45	0134:55	15	99		2		
978	196	80/07/14	0149:15	0149:35	205	197	2460	5	2562	
979	196	80/07/14	0317:33	0317:39	20	86		2		
980	196	80/07/14	0355:44	0357:06	150	172	3657	5		
981	196	80/07/14	0503:36	0503:46	20	71		2		
982	196	80/07/14	0646:24	0647:14	110	106	999	5		
983	196	80/07/14	0822:04	0825:55	440	5332	4.15E+05	15	2562	M
984	196	80/07/14	1015:08	1016:46	220	186	692	5		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
985	196	80/07/14	1246:04	1248:03	220	79	2687	5		
986	196	80/07/14	1326:35	1330:42	440	78	3804	2		
987	196	80/07/14	1424:53	1430:15	840	110	21781	5	2567	
988	197	80/07/15	0129:30	0130:15	105	292	4157	5	2562	
989	197	80/07/15	0845:00	0845:25	115	307	4441	5		
990	197	80/07/15	0937:30	0937:40	100	66		2		
991	197	80/07/15	0953:00	0953:30	140	320	5062	5		
992	197	80/07/15	1423:02	1426:57	440	85	4255	5	2563	
993	197	80/07/15	2247:05	2247:50	190	166	5711	5	2562	
994	198	80/07/16	0633:50	0634:25	115	57		2		
995	198	80/07/16	0636:30	0637:35	170	106	3545	2		
996	198	80/07/16	1422:32	1423:25	80	103	1060	2		
997	198	80/07/16	1511:00	1511:17	140	454	12452	5		SA
998	198	80/07/16	1733:06	1733:17	50	117	1389	2		
999	198	80/07/16	1750:46	1751:04	99	71		2		
1000	198	80/07/16	1923:46	1924:10	35	83		2		
1001	199	80/07/17	0141:36	0142:28	100	70		2	2570	
1002	199	80/07/17	0610:51	0615:09	380	110	8493	5	2562	
1003	199	80/07/17	0659:32	0700:16	102	141	2408	2		
1004	199	80/07/17	0923:25	0924:56	182	85		5		AX
1005	199	80/07/17	1104:33	1105:52	150	86		5		AX
1006	199	80/07/17	1330:55	1333:26	267	74	2394	2	2559	
4287	200	80/07/18	0020:25	0021:40	75	76		2		I
4288	200	80/07/18	0203:30	0204:15	70	76		2	2562	I
1007	200	80/07/18	0454:38	0455:20	110	87		5	2562	
1008	200	80/07/18	0612:49	0613:05	40	67		2		
1009	200	80/07/18	0655:08	0655:30	60	211	2443	5		
1010	200	80/07/18	0919:52	0922:49	250	94	3328	10		
1011	201	80/07/19	0007:20	0007:40	120	239	3120	5	2562	
1012	201	80/07/19	0027:15	0035:55	775	101	19000	5		ES
1013	201	80/07/19	0655:10	0657:10	255	75	390	2		
1014	201	80/07/19	0754:20	0755:20	125	70		2		
4289	202	80/07/20	0029:45	0031:00	139	119	1995	2		I
1015	202	80/07/20	0817:00	0818:20	130	356	11694	5	2570	
1016	202	80/07/20	0914:45	0915:58	260	94	4985	5		
1017	202	80/07/20	1229:41	1233:58	500	72	3797	5	2570	
1018	202	80/07/20	1922:43	1925:08	417	2624	1.04E+05	10	2562	
1019	202	80/07/20	2237:20	2237:36	29	162	819	5	2579	
1020	203	80/07/21	0032:34	0032:47	36	74		2	2579	
1021	203	80/07/21	0136:10	0136:19	28	75		2		
1022	203	80/07/21	0253:43	0256:13	612	12443	7.99E+05	15	2562	M
1023	203	80/07/21	0946:13	0946:21	57	62		2		
4290	203	80/07/21	1413:15	1414:20	135	84		2	2570	I
4291	203	80/07/21	1422:50	1423:30	65	67		2		I
1024	203	80/07/21	1919:40	1920:36	340	160	10404	5		
1025	203	80/07/21	2213:56	2214:28	90	86		2		
1026	205	80/07/23	0008:50	0010:50	220	83	1957	2	2579	
1027	205	80/07/23	0109:30	0112:05	2025	319	7.11E+06	10	2579	M ,SN
1028	205	80/07/23	0303:20	0304:25	120	200	4720	5	2575	
1029	205	80/07/23	0620:10	0621:50	135	72		2		
1030	205	80/07/23	0741:45	0742:20	120	71		5		
1031	205	80/07/23	1010:15	1010:45	55	247	3558	5		
1032	205	80/07/23	1635:40	1635:55	40	76		2	2570	
1033	205	80/07/23	2156:45	2157:45	105	110	1907	5	2584	
1034	205	80/07/23	2210:35	2212:00	265	74	1061	2	2579	
1035	206	80/07/24	0001:05	0001:20	185	70		2	2571	
1036	206	80/07/24	0303:10	0303:35	40	84		2	2576	
1037	206	80/07/24	0648:30	0648:50	35	83		2		
1038	206	80/07/24	0908:30	0909:05	60	228	2216	5	2579	
1039	206	80/07/24	1138:55	1139:10	235	93	1840	2		
1040	207	80/07/25	1538:25	1541:10	360	90	3830	2	2570	
1041	207	80/07/25	2057:31	2058:10	126	91		2		ES
1042	208	80/07/26	0116:18	0119:42	433	189	57065	5	2588	ND
1043	208	80/07/26	0152:29	0152:45	31	123	639	2		
1044	208	80/07/26	1136:08	1136:40	95	65		2		
1045	208	80/07/26	1306:33	1307:25	178	94		2	2591	
1046	208	80/07/26	1731:17	1732:04	146	88		2	2588	
1047	208	80/07/26	2328:16	2328:50	43	89		5		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1048	208	80/07/26	2351:22	2352:19	90	78		5	2571	
1049	209	80/07/27	0641:07	0642:12	90	75		2	2588	
1050	209	80/07/27	0959:35	1000:41	130	59		2		
1051	209	80/07/27	1045:15	1045:52	100	68		2		ES
1052	209	80/07/27	1222:24	1222:54	50	288	3462	10		
1053	209	80/07/27	2041:35	2042:05	115	62		2		
1054	210	80/07/28	0437:40	0444:40	745	70	2261	2		
4332	219	80/08/06	0002:55	0003:45	145	63		2		I
4335	219	80/08/06	0549:30	0552:15	482	89		2	2593	I ,ND
12676	219	80/08/06	2203:28	2203:29	4	46	12			NS,GB
1055	220	80/08/07	0743:05	0746:00	390	67	1376	2		
1056	220	80/08/07	1116:25	1118:05	120	99		2	2611	EN,ND
1057	222	80/08/09	2014:23	2014:55	340	121	4719	2		
1058	222	80/08/09	2332:25	2332:46	50	66		2	2610	
1059	222	80/08/09	2338:03	2342:22	450	74	2067	2	2610	
1060	222	80/08/09	2348:53	2349:10	30	114	668	2	2605	
1061	223	80/08/10	2125:42	2126:24	239	119	6348	10	2618	
1062	223	80/08/10	2201:54	2203:14	166	72		2		
1063	223	80/08/10	2342:02	2346:22	345	96	4325	5		
1064	224	80/08/11	0051:20	0102:27	667	772	77856	15	2618	
1065	224	80/08/11	1034:16	1034:55	223	202	3326	5		
1066	224	80/08/11	1049:40	1052:20	749	300	15999	5		
1067	224	80/08/11	2119:00	2121:24	280	155	12336	5		
1068	225	80/08/12	0604:01	0605:17	240	128	3807	5	2618	
12677	225	80/08/12	1855:44	1855:45	4	35				NS,GB
1069	225	80/08/12	2136:18	2137:49	150	65		2		
1070	226	80/08/13	0112:02	0113:14	120	60		2		
1071	226	80/08/13	1314:52	1315:08	400	96	8495	2	2618	ES
1072	226	80/08/13	1658:00	1659:10	140	69		5	2624	
1073	226	80/08/13	2121:25	2122:55	110	56		2	2615	
1074	227	80/08/14	1217:00	1217:35	55	68		2	2621	
4364	227	80/08/14	2311:40	2312:10	67	204	2154	4	2618	I
1075	228	80/08/15	0117:53	0118:13	65	92		2	2618	ND
1076	228	80/08/15	0216:11	0218:07	150	129	2737	15	2622	
1077	228	80/08/15	1821:40	1821:44	27	80	356	8		NS,GB
1078	228	80/08/15	2144:36	2145:49	130	63		2	2625	
1079	229	80/08/16	1229:24	1229:35	50	71		2		
1080	229	80/08/16	1352:01	1353:47	160	58		2		
1081	229	80/08/16	1512:40	1513:40	150	57		2	2629	
1082	229	80/08/16	1804:45	1806:10	110	66		2	2618	
1083	229	80/08/16	1932:00	1933:45	275	463	29500	5		
1084	231	80/08/18	0153:40	0154:10	60	73		2	2628	
1085	231	80/08/18	1044:52	1045:37	114	176	3932	2		
1086	231	80/08/18	2006:40	2007:20	85	60		2	2628	
1087	232	80/08/19	0220:10	0220:20	50	64		2	2629	
1088	232	80/08/19	1523:05	1525:25	200	71	924	2	2629	
1089	232	80/08/19	1527:15	1528:05	180	67	659	2		
1090	234	80/08/21	1312:05	1312:30	95	220	2768	5	2635	
1091	234	80/08/21	1331:06	1331:09	10	80	240	2		
1092	234	80/08/21	1342:00	1343:40	710	90		2	2629	ND
1093	234	80/08/21	1650:05	1650:20	120	75	630	2	2635	
1094	234	80/08/21	1743:00	1743:25	45	90	225	2	2635	
1095	234	80/08/21	1750:58	1751:08	30	284	1282	5		
1096	235	80/08/22	0031:12	0031:34	230	79	1033	5	2635	
1097	235	80/08/22	0227:07	0227:30	110	77		2		
1098	235	80/08/22	0241:09	0241:44	70	74		2	2629	
1099	235	80/08/22	0344:11	0345:29	80	80		2	2637	
1100	235	80/08/22	0347:02	0347:42	70	72		2		
1101	235	80/08/22	0514:58	0517:03	926	310	39322	2	2635	
1102	235	80/08/22	0828:06	0829:12	300	1367	75906	10	2635	
1103	235	80/08/22	1126:15	1127:58	160	289	8446	5		
4377	235	80/08/22	1308:20	1309:35	109	61		2		I
1104	235	80/08/22	1652:47	1654:20	360	53	2949	2	2635	
1105	235	80/08/22	1948:40	1949:06	36	66		2		
1106	235	80/08/22	2121:54	2125:28	834	834	2091	10	2635	M
1107	236	80/08/23	0636:47	0636:56	36	95		2		
1108	236	80/08/23	1156:18	1156:53	459	124	7127	5	2629	
1109	236	80/08/23	1204:34	1205:10	391	227	5620	2	2629	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1110	236	80/08/23	1449:56	1450:49	118	149	2621	5	2629	
1111	236	80/08/23	1804:20	1806:09	150	81		2		
1112	236	80/08/23	1816:31	1817:26	350	84		2		ES
1113	236	80/08/23	2126:39	2128:33	480	903	73859	5	2629	
1114	237	80/08/24	0022:52	0024:41	190	98		2	2629	
1115	237	80/08/24	0223:53	0224:42	70	72		2		
1116	237	80/08/24	0525:10	0529:13	660	194	25392	2	2629	
1117	237	80/08/24	0823:56	0827:55	540	104	9361	2	2629	
1118	237	80/08/24	1323:37	1323:59	40	94		2		
1119	237	80/08/24	1604:29	1609:22	1065	312	44451	5	2629	
1120	237	80/08/24	1642:23	1645:09	340	74	3633	2	2629	AX
1121	237	80/08/24	1810:38	1811:02	40	74		2		
1122	237	80/08/24	1944:17	1945:39	700	608	74210	5	2629	M ,ES
1123	237	80/08/24	2238:55	2239:11	30	62		2	2629	
1124	238	80/08/25	0008:40	0008:49	50	79		2		
1125	238	80/08/25	0021:40	0022:22	130	232	3524	5		FS
1126	238	80/08/25	0217:11	0223:52	600	100	6906	2	2629	
1127	238	80/08/25	0339:30	0340:05	120	69		2		
1128	238	80/08/25	0400:18	0401:39	110	342	11723	5	2635	
1129	238	80/08/25	0632:23	0635:46	360	74		2	2629	
1130	238	80/08/25	1017:30	1019:49	220	301	11678	5		
1131	238	80/08/25	1253:38	1254:25	78	247	4320	5	2629	
1132	238	80/08/25	1256:17	1302:15	840	161	32706	2		
1133	238	80/08/25	1457:00	1457:40	220	87	3902	2	2629	
1134	238	80/08/25	1623:20	1623:47	80	77		2		
1135	238	80/08/25	1753:00	1753:40	360	125	4105	2		
1136	238	80/08/25	1915:35	1915:55	45	61		2	2629	
1137	238	80/08/25	2057:10	2057:55	55	85		2		
1138	238	80/08/25	2059:05	2059:55	130	106	1156	2	2629	
1979	239	80/08/26	0353:45	0354:10	166	148	1884	4	2640	I
4418	239	80/08/26	0406:10	0407:25	103	168	1764	2		I
1139	239	80/08/26	1026:55	1028:15	135	85		2		
1140	239	80/08/26	1029:30	1030:10	104	74		2		
1141	239	80/08/26	1142:31	1142:32	1	1245	591	10		M ,AX
1142	240	80/08/27	0039:00	0039:30	30	78		2		
1143	240	80/08/27	0226:10	0226:15	15	79		2	2638	
1144	240	80/08/27	0508:55	0509:05	20	63		2		
1145	240	80/08/27	0658:30	0658:35	40	84		2		
1146	240	80/08/27	0803:40	0804:20	60	134	1020	2	2632	M
1147	240	80/08/27	0818:45	0819:12	90	518	4500	5	2632	M
1148	240	80/08/27	1021:50	1022:10	90	60		2		
1149	240	80/08/27	1136:05	1137:25	270	294	12150	5	2629	M
1150	240	80/08/27	1226:20	1226:45	60	60		2		SN,EN,AX
1151	240	80/08/27	1322:20	1327:15	1025	165	35875	2	2645	M
1152	240	80/08/27	1610:50	1612:20	150	222	5100	5		
1153	240	80/08/27	1738:40	1738:55	40	62		2	2640	
1154	240	80/08/27	2243:40	2244:15	90	84		2		
1155	241	80/08/28	0028:25	0029:20	120	136	2040	2		
1156	241	80/08/28	0356:55	0357:10	60	70		2	2646	
1157	241	80/08/28	1157:45	1158:05	60	114	780	2	2645	M
1158	241	80/08/28	1248:05	1249:30	250	149	6750	10	2646	M
1159	241	80/08/28	1556:05	1556:30	80	73		2		
1160	241	80/08/28	1726:30	1726:50	65	205	1820	5		
1161	242	80/08/29	0803:10	0803:40	60	68		2		
1162	242	80/08/29	0931:50	0932:05	60	95		2		
1163	242	80/08/29	1238:20	1238:50	80	69		2	2646	
1164	243	80/08/30	0140:10	0140:20	35	81		2		
1165	243	80/08/30	0301:15	0301:25	30	72		2		
1166	243	80/08/30	0304:20	0305:05	80	470		5	2646	M
1167	243	80/08/30	0529:30	0529:45	60	104	750	2	2646	M
1168	243	80/08/30	0623:05	0624:45	190	97		2	2646	
1169	243	80/08/30	0647:20	0647:50	100	197	3550	5	2648	M
4419	243	80/08/30	0803:10	0809:15	520	122	6702	2	2646	I
1170	243	80/08/30	0950:55	0951:10	60	66		5		
1171	243	80/08/30	1236:50	1243:00	620	208	14260	2		M
1172	243	80/08/30	1922:30	1922:49	60	99		2		
1173	244	80/08/31	0012:10	0012:50	220	174	6160	2	2646	
1174	244	80/08/31	0316:05	0316:30	65	85		2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	1175	244	80/08/31	0840:55	0841:15	60	94		2		
	1176	244	80/08/31	0923:20	0923:50	90	1255	14220	10	2646	FS
	1177	244	80/08/31	0925:00	0925:35	205	1115	27675	10		FS
	1178	244	80/08/31	0959:05	1000:20	90	94		2		
	1179	244	80/08/31	1059:30	1100:25	180	51		2		
	1180	244	80/08/31	1237:40	1239:40	295	99	5458	10		
	1181	244	80/08/31	1247:55	1248:50	120	7360	91200	15	2646	M
	1182	244	80/08/31	1251:00	1252:15	170	3673	1.24E+05	15		
	1183	244	80/08/31	1302:35	1302:55	60	65		2	2645	
	1184	244	80/08/31	1324:45	1329:30	300	1791	1.89E+05	5	2645	M ,EN
	1185	244	80/08/31	1730:00	1730:29	60	64		2		
	1186	244	80/08/31	1749:10	1749:18	14	205	849	5		M
	1187	245	80/09/01	0001:31	0001:51	37	164	1446	5		
	1188	245	80/09/01	0345:20	0345:35	25	70		2	2645	
	1189	245	80/09/01	0521:00	0523:45	380	161	12165	2	2645	
	1190	245	80/09/01	0639:44	0640:16	48	71		2	2648	
	1191	245	80/09/01	0701:31	0701:40	27	85		2	2645	
	1192	245	80/09/01	0921:03	0921:11	20	84		2		
	1193	245	80/09/01	0937:51	0939:14	600	90		2		
	1194	245	80/09/01	1122:48	1123:02	60	86		2		AX
	1195	245	80/09/01	1255:00	1256:03	115	86		2	2655	AX
	1196	245	80/09/01	1410:34	1410:41	18	70		2	2646	
	1197	245	80/09/01	1723:55	1724:40	80	179	1920	5	2645	
	1198	245	80/09/01	1854:15	1855:05	140	122	2380	2	2645	
	1199	245	80/09/01	2232:55	2233:15	80	130	560	2	2657	
	1200	246	80/09/02	0015:40	0016:25	180	147	2520	5	2657	
	1201	247	80/09/03	0135:50	0136:15	60	120	1080	2	2646	
	1202	247	80/09/03	0138:00	0138:30	60	81		2		
	1203	247	80/09/03	0316:55	0318:20	120	71		2	2657	
	1204	247	80/09/03	0510:45	0512:30	195	82		2	2646	
	1205	247	80/09/03	0633:40	0635:20	160	60		2	2645	
	1206	247	80/09/03	1420:30	1421:20	100	285	9300	5	2645	M
	1207	247	80/09/03	1736:15	1737:05	75	110	825	2	2645	
	1208	247	80/09/03	1858:55	1859:30	50	104	500	2		
	1209	247	80/09/03	2051:10	2056:30	540	121	12420	2	2645	
	1210	248	80/09/04	0155:05	0201:20	795	12860	1.11E+06	10	2645	
	1211	248	80/09/04	0246:35	0248:55	170	73		2	2661	
	1212	248	80/09/04	0301:15	0301:40	60	71		2	2657	
	1213	248	80/09/04	1057:15	1057:30	40	130	760	2		
	1214	248	80/09/04	1106:00	1106:10	30	87		2		
	1215	248	80/09/04	2215:00	2216:54	440	1801	1.20E+05	5	2645	
	1216	249	80/09/05	0011:45	0011:55	35	84		2	2657	
	1217	250	80/09/06	0900:40	0901:15	100	132	2313	2	2645	SN
	1218	250	80/09/06	0955:25	0956:25	110	57		2		
*	1219	251	80/09/07	0322:30	0323:40	225	287	5625	5	2655	M
*	1220	252	80/09/08	0501:05	0503:50	505	3346	1.99E+05	10	2665	M
	1221	252	80/09/08	0545:10	0545:20	95	78		2	2645	
	1222	252	80/09/08	1043:20	1043:50	70	72		2	2657	
*	1223	252	80/09/08	1447:25	1448:20	95	135	2945	2		
	1224	253	80/09/09	0150:50	0151:30	100	67		2	2657	
	1225	253	80/09/09	1532:25	1535:00	175	80		2		
	1226	253	80/09/09	2320:45	2321:35	115	75		2		
	1227	254	80/09/10	2152:40	2157:35	1030	310	34680	2	2665	
	1228	255	80/09/11	0142:55	0146:15	305	72	2135	2	2665	
	1229	255	80/09/11	0634:45	0635:30	80	104	2080	2	2669	
	1230	255	80/09/11	0748:40	0748:50	75	65		2	2665	
	1231	255	80/09/11	2215:00	2216:00	60	106	780	2	2672	
	1232	256	80/09/12	0047:00	0052:10	500	81	4500	2		
	1233	256	80/09/12	0546:00	0546:35	260	350	12480	5	2665	
	1234	257	80/09/13	0922:05	0922:45	140	139	2800	5		
	1235	257	80/09/13	2144:05	2145:10	115	72	345	2		
	1236	263	80/09/19	0727:10	0727:45	70	111	910	5	2665	
	8584	263	80/09/19	1920:54	1921:00	27	64	343	15		NS,GB
	1237	264	80/09/20	0256:00	0256:55	190	77		2		
	1238	264	80/09/20	1409:49	1409:58	31	101	509	8		NS,GB
	1239	264	80/09/20	1938:45	1940:40	180	95		2		
	1240	264	80/09/20	2013:15	2014:30	235	163	3878	2	2675	
	1241	264	80/09/20	2119:50	2121:55	435	185	10875	10	2691	AX

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1242	264	80/09/20	2342:50	2344:30	175	65		2		
1243	265	80/09/21	0111:15	0111:40	70	69		2	2687	
5480	265	80/09/21	1058:03	1058:18	92	99		2		EW
1244	266	80/09/22	0539:00	0540:00	180	152	6480	5		
5481	266	80/09/22	0856:14	0856:28	27	160	1060	3		I
1245	266	80/09/22	2022:10	2022:55	185	70		2		
1246	266	80/09/22	2136:20	2136:50	110	73		2		
1247	267	80/09/23	0221:25	0222:30	180	76		2	2684	
1248	267	80/09/23	0549:35	0550:25	165	82		2	2680	
1249	267	80/09/23	2152:30	2153:50	170	75		2		
1250	268	80/09/24	0353:05	0353:30	115	70		2	2697	
1251	268	80/09/24	0727:20	0732:47	825	720	60200	10	2684	M
1252	268	80/09/24	1226:30	1226:45	55	152	800	2		M
1253	268	80/09/24	1631:15	1633:35	500	147	2971	2		
1254	269	80/09/25	2145:10	2145:20	40	99		2		
1255	270	80/09/26	0859:15	0859:35	70	73		2	2697	
1256	270	80/09/26	1037:40	1037:50	50	349	2800	5		
1257	270	80/09/26	1517:45	1521:00	210	100	840	2	2699	
1258	271	80/09/27	0156:30	0157:30	125	90		2	2697	
1259	271	80/09/27	1459:20	1459:40	65	148	1820	5	2697	
1260	271	80/09/27	2314:55	2315:20	65	96		2	2701	
1261	272	80/09/28	0711:35	0712:15	75	128	450	2		
1262	272	80/09/28	2324:30	2324:50	60	71		2		
1263	273	80/09/29	0041:55	0042:05	25	71		2		
1264	273	80/09/29	0219:04	0219:15	56	102	1500	2		
1265	273	80/09/29	0504:00	0505:05	210	161	7560	2		
1266	273	80/09/29	2239:15	2240:40	105	715	7245	10	2697	
1267	273	80/09/29	2244:35	2245:55	180	201	3960	5		
1268	274	80/09/30	1148:20	1149:15	435	558	14790	5	2701	
1269	275	80/10/01	0022:35	0023:10	75	60		2	2701	
1270	275	80/10/01	0035:50	0037:55	235	136	2585	5	2701	
1271	275	80/10/01	1009:50	1010:40	80	60		2		
1272	275	80/10/01	1304:05	1306:05	190	65		2		
1273	275	80/10/01	1506:15	1507:15	170	142	3570	5	2701	
1274	275	80/10/01	2001:00	2002:35	310	62	1240	2	2701	
1275	276	80/10/02	0156:15	0159:05	370	83	3700	2	2710	
1276	276	80/10/02	0312:25	0313:20	140	141	5320	5	2701	
1277	277	80/10/03	0820:30	0822:00	250	115	2750	2	2701	
1278	277	80/10/03	1735:30	1735:55	75	56		2	2701	AX
1279	278	80/10/04	0512:55	0513:15	55	201	1375	2		
1280	278	80/10/04	1643:05	1643:25	50	61		2		
1281	279	80/10/05	1251:10	1251:30	75	94		2	2701	
1282	279	80/10/05	1603:18	1603:20	30	95		2	2705	
1283	279	80/10/05	1614:03	1614:04	30	75		2	2705	
1284	279	80/10/05	1754:40	1755:15	90	75		2		
1285	280	80/10/06	0120:15	0123:30	295	294	10915	5	2705	
1286	280	80/10/06	1436:00	1436:55	330	112	1320	5		
1287	280	80/10/06	2114:35	2115:30	160	318	5280	5		
1288	281	80/10/07	0007:15	0007:55	155	65		2		
1289	281	80/10/07	0029:40	0030:40	130	138	2210	2		
1290	281	80/10/07	0203:40	0204:25	105	79		2	2717	
1291	281	80/10/07	0302:35	0303:50	155	107	1240	2		
1292	281	80/10/07	0926:25	0928:50	735	485	73500	5	2725	
4281	281	80/10/07	1409:55	1412:50	595	479	27174	4	2725	I
4282	281	80/10/07	1422:10	1430:30	1049	241	20263	2	2717	I
4283	281	80/10/07	1502:40	1503:40	90	57		2	2717	I
1293	281	80/10/07	1558:15	1608:50	1162	119	17835	2	2717	
1294	281	80/10/07	1719:55	1721:10	135	372	5265	5		
1295	281	80/10/07	1855:00	1856:10	120	64		2		
1296	282	80/10/08	0138:15	0141:35	555	736	58037	5	2726	
1297	282	80/10/08	0206:10	0207:10	155	88		2	2717	
1298	282	80/10/08	0258:00	0258:50	185	92		2	2725	
1299	282	80/10/08	0334:05	0335:35	210	172	1249	2		
1300	282	80/10/08	0822:30	0823:30	125	75		2		
1301	282	80/10/08	0955:05	0956:00	135	66		2		
1302	282	80/10/08	1051:20	1052:35	145	88		2		
1303	282	80/10/08	1058:40	1059:50	155	74		2		
1304	282	80/10/08	1311:50	1313:15	180	79		2	2726	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1305	282	80/10/08	1411:35	1412:45	155	247	3565	5	2717	
1306	282	80/10/08	1534:45	1536:05	410	1070	72160	5	2717	
1307	282	80/10/08	1914:25	1916:20	365	219	7665	5	2726	
1308	282	80/10/08	2022:30	2027:30	1350	2443	3.58E+05	10	2725	M
1309	283	80/10/09	0742:05	0743:20	190	72		2		
1310	283	80/10/09	1109:35	1110:45	125	63		2		
1311	283	80/10/09	1123:25	1124:55	1440	26608	1.83E+06	5	2726	
1312	283	80/10/09	1405:25	1406:10	85	78		2		
1313	283	80/10/09	1748:30	1749:45	360	184	4320	2	2726	
1314	283	80/10/09	1929:20	1929:55	90	143	1710	2	2725	
1315	283	80/10/09	2218:50	2219:59	190	202	8170	2	2726	
1316	284	80/10/10	0022:30	0023:50	180	70		2	2724	
1317	284	80/10/10	0126:00	0126:50	130	156	1560	2	2717	
1318	284	80/10/10	0133:15	0133:50	190	77		2	2726	
1319	284	80/10/10	0330:40	0333:15	320	91	4160	2	2717	
1320	284	80/10/10	0628:30	0631:50	600	76	3600	2	2725	
1321	284	80/10/10	0649:00	0650:30	180	96		2		
1322	284	80/10/10	1049:05	1050:45	830	495	43990	5	2725	
1323	284	80/10/10	1126:05	1127:15	385	110	4620	2	2725	
1324	284	80/10/10	1136:35	1137:20	135	66		2	2725	
1325	284	80/10/10	1713:10	1713:30	120	96		2	2726	
5668	284	80/10/10	1918:29	1918:46	34	206	1391	4	2725	I
1326	285	80/10/11	0452:55	0454:23	150	68		2		
1327	285	80/10/11	0503:10	0506:55	355	78	1775	2	2726	
1328	285	80/10/11	0610:00	0610:40	80	298	2960	5		
1329	285	80/10/11	0814:25	0815:30	145	91		2		
1330	285	80/10/11	0819:00	0819:45	70	116	1330	2	2726	
1331	285	80/10/11	1303:35	1304:40	130	84		2		
1332	285	80/10/11	1405:55	1408:45	435	91	6090	10		AX
1333	285	80/10/11	1740:00	1741:40	215	1606	62995	5	2725	
1334	285	80/10/11	2015:05	2018:35	305	102	3355	2	2724	
1335	285	80/10/11	2343:50	2346:20	310	109	4340	2	2724	
1336	286	80/10/12	0006:10	0007:10	150	72		2		
1337	286	80/10/12	0156:25	0157:10	85	142	1785	2		
1338	286	80/10/12	0158:40	0159:25	110	193	1650	2	2725	
1339	286	80/10/12	0429:25	0430:10	85	78		2	2724	
1340	286	80/10/12	0559:45	0601:00	155	92		2		
1341	286	80/10/12	0726:45	0728:00	240	156	5280	2	2724	
1342	286	80/10/12	0806:15	0807:00	95	75		2		
1343	286	80/10/12	0927:20	0931:20	280	75	840	2	2725	
1344	286	80/10/12	1047:30	1048:10	120	70		2		
1345	286	80/10/12	1218:50	1219:30	95	114	855	2		
1346	286	80/10/12	1552:50	1553:55	150	697	13050	5	2725	FS
1347	286	80/10/12	2148:10	2148:55	105	74		2		
1348	287	80/10/13	0311:25	0312:10	100	75		2	2724	
1349	287	80/10/13	0323:20	0324:10	75	167	1425	2	2724	
1350	287	80/10/13	0411:35	0416:40	600	756	88800	5	2725	
1351	287	80/10/13	0616:40	0617:45	205	729	22960	5	2717	
1352	287	80/10/13	0742:55	0745:35	320	76	960	2	2724	
1353	287	80/10/13	0749:30	0751:35	310	69	630	2		
1354	287	80/10/13	0821:10	0821:55	190	76		2	2724	
1355	287	80/10/13	0940:50	0943:51	781	1982	1.16E+05	5	2724	M
1356	287	80/10/13	1110:20	1111:40	160	70		2		
1357	287	80/10/13	1357:20	1357:45	60	90		2		
1358	287	80/10/13	1547:50	1548:20	85	122	1627	2	2725	
1359	287	80/10/13	1842:55	1844:15	190	59		2		
1360	287	80/10/13	2009:25	2010:05	125	74		2	2736	
1361	287	80/10/13	2012:20	2013:25	170	62		2		
1362	287	80/10/13	2018:30	2019:00	65	126	1625	2		
1363	287	80/10/13	2034:30	2035:45	170	204	3740	5	2717	
1364	287	80/10/13	2213:45	2215:30	250	289	11098	2	2717	
1365	287	80/10/13	2321:40	2321:55	60	133	1269	2	2724	
1366	287	80/10/13	2338:20	2339:35	95	75		2	2725	
1367	287	80/10/13	2345:40	2347:10	300	80		2	2736	
1368	288	80/10/14	0010:45	0011:30	125	175	2843	5	2736	M
1369	288	80/10/14	0237:10	0237:45	60	162	1482	2	2724	
1370	288	80/10/14	0245:05	0245:30	350	266	3327	5	2717	
1371	288	80/10/14	0253:00	0257:40	440	75		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1372	288	80/10/14	0412:55	0413:15	35	712	4324	5	2724	
1373	288	80/10/14	0544:15	0546:15	515	399	24420	5	2725	SN
1374	288	80/10/14	0557:50	0608:55	2110	39583	1.49E+07	15	2725	M
1375	288	80/10/14	0800:50	0801:35	110	248	4252	2		
1376	288	80/10/14	0805:50	0808:05	300	94		2		
1377	288	80/10/14	0919:15	0919:40	55	70		2		
1378	288	80/10/14	0942:55	0943:50	195	167	2504	5		
1379	288	80/10/14	1100:30	1101:55	180	78		2		
1380	288	80/10/14	1344:00	1345:00	205	147	4578	2		EW
1381	288	80/10/14	1400:25	1403:50	295	310	10061	2	2724	EW
1382	288	80/10/14	1548:00	1549:30	155	83		2		EW
1383	288	80/10/14	1553:00	1553:50	100	83		2		EW
1384	288	80/10/14	1857:00	1858:00	120	90		2	2724	
1385	288	80/10/14	2203:45	2204:05	50	81		2		
1386	288	80/10/14	2222:00	2223:05	95	177	380	2		
1387	288	80/10/14	2224:15	2224:50	80	84		2		
1388	289	80/10/15	0057:00	0057:45	95	93		2		
1389	289	80/10/15	0107:00	0107:55	80	95		2		
1390	289	80/10/15	0116:25	0116:50	90	329	1800	5	2722	FS
1391	289	80/10/15	0229:40	0230:25	135	157	3915	2	2725	
1392	289	80/10/15	0240:00	0240:45	65	160	715	5	2725	
1393	289	80/10/15	0303:40	0305:20	255	102	9180	2		
1394	289	80/10/15	0309:50	0310:10	115	127	1035	2		
1395	289	80/10/15	0423:10	0423:25	45	90		2	2741	
5696	289	80/10/15	0627:27	0630:06	187	82		2		I
5697	289	80/10/15	0640:12	0640:48	120	74		2		I
1396	289	80/10/15	0805:20	0806:30	140	87		2	2724	
1397	289	80/10/15	1036:50	1037:20	115	73		2		
1398	289	80/10/15	1116:20	1117:05	140	90		2		
1399	289	80/10/15	1122:05	1122:35	140	70		2		
1400	289	80/10/15	1204:40	1205:05	50	63		2		
1401	289	80/10/15	1242:05	1247:10	710	531	83780	5	2724	
1402	289	80/10/15	1529:45	1530:45	195	71	975	2		
1403	289	80/10/15	1548:50	1549:45	75	152	3400	2	2717	M ,ES,IS
1404	289	80/10/15	2021:35	2022:05	90	91		2		
1405	289	80/10/15	2030:50	2031:30	70	89		2	2734	
1406	289	80/10/15	2344:35	2346:15	150	88		2		
1407	290	80/10/16	0453:20	0453:55	90	94		2		
8585	290	80/10/16	0604:32	0604:37	10	90	166	14		NS,GB
1408	290	80/10/16	0750:40	0751:15	170	97		2	2734	
1409	290	80/10/16	0935:50	0936:30	150	87		2		
1410	290	80/10/16	1339:55	1340:10	40	107	549	2	2734	
1411	290	80/10/16	1651:50	1652:55	145	130	1740	2	2724	
1412	290	80/10/16	2013:45	2014:20	65	110	910	2		
1413	290	80/10/16	2015:50	2016:35	95	89		2		
1414	290	80/10/16	2345:50	2346:35	120	399	6480	5	2724	
1415	291	80/10/17	1039:00	1039:55	190	164	1900	5		
1416	291	80/10/17	1102:25	1103:00	70	73		2		
1417	291	80/10/17	1200:05	1200:15	105	86		2		
1418	291	80/10/17	1339:45	1341:20	185	71		2		
5698	291	80/10/17	1349:02	1349:33	90	147	2365	2	2744	I
1419	291	80/10/17	1837:50	1838:40	110	72		2		
1420	291	80/10/17	2012:20	2013:00	200	442	13200	5	2744	
1421	291	80/10/17	2136:55	2143:35	545	80	5450	2	2744	
1422	291	80/10/17	2154:20	2155:10	125	73		2	2744	
1423	291	80/10/17	2218:00	2218:20	65	83		2	2744	
1424	291	80/10/17	2336:00	2336:15	205	524	23985	5	2744	
1425	291	80/10/17	2353:00	2353:15	30	121	240	2	2744	
1426	292	80/10/18	0125:10	0125:40	80	74		2		
1427	292	80/10/18	0137:55	0142:00	330	167	7920	2	2744	ES
1428	292	80/10/18	0236:35	0239:55	325	250	5200	5	2725	
1429	292	80/10/18	0318:45	0319:55	135	147	2430	2		
1430	292	80/10/18	0358:00	0358:10	180	82		2	2744	
1431	292	80/10/18	0416:20	0416:55	145	94		2		
1432	292	80/10/18	0425:55	0427:00	165	119	1815	2		
1433	292	80/10/18	0438:20	0439:25	200	286	5000	2	2725	
1434	292	80/10/18	0539:45	0540:10	75	69		2		
1435	292	80/10/18	0542:00	0543:00	145	71		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1436	292	80/10/18	0731:40	0732:00	55	67		2		
1437	292	80/10/18	0739:50	0741:20	130	76		2		
5704	292	80/10/18	0939:40	0939:51	26	130	888	3		I
5705	292	80/10/18	1040:26	1044:20	382	291	20075	5		I
5706	292	80/10/18	1117:05	1117:31	82	86		2		I
5707	292	80/10/18	1252:42	1253:09	109	107	896	2		I
5708	292	80/10/18	1506:54	1507:15	174	183	3048	2		I
1438	292	80/10/18	1522:45	1525:10	200	211	6400	5	2744	
1439	292	80/10/18	1819:30	1823:25	1770	370	35400	5	2744	
1440	292	80/10/18	2023:20	2023:30	45	95		2	2744	
1441	292	80/10/18	2130:10	2130:35	220	212	7260	5	2744	SN,EW
1442	292	80/10/18	2142:20	2143:30	150	154	3000	2		EW
1443	292	80/10/18	2145:35	2146:00	560	1061	43120	5	2744	M ,FS,EW
1444	292	80/10/18	2329:20	2330:25	190	82		2	2744	
1445	293	80/10/19	0046:25	0046:45	115	140	1610	2	2739	
4300	293	80/10/19	0230:55	0231:05	45	89		2	2744	I
4301	293	80/10/19	0301:10	0301:45	180	72		2		I
1446	293	80/10/19	0313:20	0313:50	180	112	1440	2	2744	
1447	293	80/10/19	0358:45	0359:45	75	78		2		
1448	293	80/10/19	0532:35	0540:40	865	155	9515	2	2744	
1449	293	80/10/19	0552:30	0553:05	70	144	700	5		
1450	293	80/10/19	0608:25	0608:40	80	161	1200	2	2739	
4302	293	80/10/19	0713:25	0713:35	35	75		2	2739	I
1451	293	80/10/19	0743:00	0743:30	70	75		2		
1452	293	80/10/19	0746:55	0747:35	80	75		2		
4303	293	80/10/19	0754:10	0759:40	400	73	1696	2		I
1453	293	80/10/19	0848:20	0849:10	150	109	1800	2	2739	
1454	293	80/10/19	0900:25	0900:55	190	77		2	2744	
1455	293	80/10/19	0916:30	0917:10	230	174	2070	2	2744	
1456	293	80/10/19	0937:55	0938:45	165	910	20460	5	2744	M
1457	293	80/10/19	1237:55	1238:30	230	275	16330	5	2744	
1458	293	80/10/19	1525:55	1526:30	70	76		2		
1459	294	80/10/20	0901:30	0903:00	180	201	7670	2	2744	
1460	294	80/10/20	1032:50	1033:35	420	101	4714	2	2744	
1461	294	80/10/20	1149:40	1151:05	130	66		2		
1462	294	80/10/20	1831:15	1832:10	245	4922	60025	10	2744	M ,FS
1463	294	80/10/20	2305:35	2306:15	85	168	975	2		
1464	295	80/10/21	0042:40	0043:35	95	230	2375	2	2744	
1465	295	80/10/21	0536:40	0537:30	180	80		2	2744	
1466	297	80/10/23	0735:00	0738:25	940	4365	3.77E+05	10	2751	M
1467	297	80/10/23	1031:50	1033:55	270	1174	40500	10		
1468	297	80/10/23	1042:55	1043:45	155	91		2		
1469	297	80/10/23	1225:25	1226:10	185	235	4810	5	2751	
5712	298	80/10/24	0029:50	0031:04	166	93		2	2751	I
1470	299	80/10/25	0536:50	0539:30	405	247	23490	5	2751	M
1471	299	80/10/25	0819:45	0820:30	205	148	6150	2	2751	SN
1472	299	80/10/25	0955:55	0956:20	695	13257	1.95E+05	5	2751	M ,SN,ES
1473	300	80/10/26	0033:20	0033:35	30	99		2		
1474	300	80/10/26	0101:35	0102:00	125	83		2		
1475	300	80/10/26	0714:15	0714:30	35	70		2		
1476	300	80/10/26	0716:20	0717:20	110	108	5720	2	2744	
1477	300	80/10/26	1439:45	1441:25	145	85		2	2744	
1478	300	80/10/26	2238:30	2240:12	280	104	2800	2	2761	
1479	301	80/10/27	1129:25	1129:30	40	83		2		
1480	302	80/10/28	0045:55	0046:25	90	81		2	2761	
1481	302	80/10/28	0223:30	0224:00	55	73		2	2744	
1482	302	80/10/28	1216:05	1216:20	50	97		2		
1483	302	80/10/28	2128:05	2129:05	90	80		2	2744	
4304	303	80/10/29	0148:15	0148:30	55	66		2	2758	I
1484	304	80/10/30	0031:00	0031:40	105	66		2		
1485	304	80/10/30	1525:00	1525:50	120	110	720	2		
1486	304	80/10/30	1759:20	1800:45	280	136	4760	2	2776	
1487	304	80/10/30	1916:30	1917:05	110	114	1650	2		
1488	304	80/10/30	2049:05	2052:55	765	70	6885	2		
1489	305	80/10/31	0201:55	0202:30	80	103	960	2		
1490	305	80/10/31	0204:35	0204:50	40	1018	22400	5	2774	FS
1491	305	80/10/31	0205:35	0206:15	100	94		2		
5715	305	80/10/31	0319:59	0322:07	462	116	5119	2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1492	305	80/10/31	0936:20	0937:10	245	135	3185	2		
1493	305	80/10/31	1254:15	1254:30	35	204	875	5	2763	
1494	305	80/10/31	2051:35	2052:00	65	67		2		
1495	305	80/10/31	2249:45	2250:15	50	73		2		
1496	306	80/11/01	0518:30	0519:15	180	72		2	2772	
1497	306	80/11/01	1419:45	1420:00	45	72		2		
1498	306	80/11/01	1915:05	1919:15	565	1004	83907	5	2776	M
1499	307	80/11/02	0205:40	0211:05	580	241	14666	2	2772	
1500	307	80/11/02	1418:35	1419:00	115	1627	21390	10	2774	M ,FS
1501	307	80/11/02	1603:40	1604:50	135	100	1485	2	2772	
5716	307	80/11/02	1904:50	1905:27	76	155	2257	4	2774	I
5717	307	80/11/02	1910:53	1911:52	102	69		2		I
1502	307	80/11/02	2358:15	0001:55	540	133	12420	5	2773	
1503	308	80/11/03	0157:10	0159:25	885	469	1.07E+05	5	2776	
1504	308	80/11/03	0331:15	0338:10	960	1002	1.14E+05	10	2773	M
1505	308	80/11/03	1548:40	1554:35	600	74	4800	2	2772	
1506	308	80/11/03	1949:15	1950:00	145	85		2		
1507	308	80/11/03	2117:45	2118:10	40	92		2	2773	
1508	308	80/11/03	2257:25	2257:50	50	62		2		
1509	309	80/11/04	0131:35	0132:05	60	62		2	2773	
1510	309	80/11/04	0148:20	0149:50	1260	475	1.34E+05	5	2779	
1511	309	80/11/04	1000:45	1001:10	30	90		2	2776	
5718	309	80/11/04	1501:30	1501:48	63	362	3035	3		I
5719	309	80/11/04	1505:08	1507:13	247	191	17432	2	2772	I ,EN
1512	309	80/11/04	1551:40	1551:50	145	81		2		
1513	309	80/11/04	1602:10	1602:25	40	113	560	2		
1514	309	80/11/04	1812:50	1813:10	50	98		2	2777	
1515	309	80/11/04	1952:55	1954:25	195	97		2	2776	
1516	309	80/11/04	2050:40	2052:30	230	97	2990	2		
1517	309	80/11/04	2114:15	2114:45	50	105	450	2	2776	
1518	309	80/11/04	2123:30	2123:50	35	86		2		
1519	310	80/11/05	0135:10	0135:45	65	130	1690	2	2773	
1520	310	80/11/05	0139:35	0141:00	150	64		2		
1521	310	80/11/05	0304:30	0305:25	125	94		2		
1522	310	80/11/05	0505:05	0506:35	145	95		2	2776	
1523	310	80/11/05	0635:35	0636:00	90	546	5220	5		
1524	310	80/11/05	0825:35	0832:30	1020	241	68340	2	2779	M ,EN
1525	310	80/11/05	1131:20	1132:25	260	229	7800	2	2779	
1526	310	80/11/05	1234:20	1234:35	25	70		2		
1527	310	80/11/05	1236:55	1237:10	65	94		2		
1528	310	80/11/05	1405:55	1406:15	900	1176	2.32E+05	2	2779	M ,SN,ES
5720	310	80/11/05	1544:42	1545:34	85	87		2		I
1529	310	80/11/05	1721:10	1722:15	110	62		2	2779	
1530	310	80/11/05	1934:40	1936:20	755	202	59267	2	2779	
1531	310	80/11/05	2123:05	2123:10	30	69		2	2782	
1532	310	80/11/05	2126:10	2126:35	60	80		2		
1533	310	80/11/05	2225:40	2226:30	230	3151	62560	10	2776	M
1534	310	80/11/05	2232:10	2233:05	350	12730	4.61E+05	10	2776	FS
1535	310	80/11/05	2257:40	2258:00	55	95		2	2779	
1536	310	80/11/05	2301:05	2301:20	45	447	2205	5	2772	FS
1537	310	80/11/05	2345:10	2347:20	160	110	2080	2	2776	
1538	310	80/11/05	2353:00	2353:25	70	85		2		
1539	311	80/11/06	0026:25	0027:15	230	139	2300	2	2782	
1540	311	80/11/06	0115:35	0116:30	180	70		2	2776	
1541	311	80/11/06	0128:25	0147:30	2700	1072	3.00E+05	5	2779	M
1542	311	80/11/06	0322:05	0322:50	105	74		2	2772	
1543	311	80/11/06	0324:10	0348:00	7395	155347	7.39E+07	15	2779	EN,IN,IS
1544	311	80/11/06	0626:40	0627:25	305	172	11550	5	2782	
1545	311	80/11/06	0647:30	0650:55	640	2613	2.37E+05	10	2776	M
1546	311	80/11/06	0950:15	0950:30	140	188	2100	5		
4305	311	80/11/06	1000:35	1001:05	45	71		2		I
1547	311	80/11/06	1139:05	1145:05	515	98	4120	2		
1548	311	80/11/06	1226:30	1234:25	490	497	56350	2	2779	M ,ES
1549	311	80/11/06	1404:15	1416:20	750	1553	1.16E+05	5	2779	M ,ES
1550	311	80/11/06	1454:25	1501:30	3840	1553	2.46E+05	5	2779	M ,IN,ES
1551	311	80/11/06	1624:50	1625:15	105	123	1365	2		
1552	311	80/11/06	1713:45	1727:22	1570	1236	1.62E+05	5	2779	M ,ES
1553	311	80/11/06	1758:55	1759:00	85	137	1615	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6394	311	80/11/06	1917:39	1921:57	410	124	12657	2	2776	AX
1554	311	80/11/06	1931:55	1941:15	975	5614	8.79E+05	5	2776	M ,EN
1555	311	80/11/06	2024:40	2026:50	300	227	7800	2	2776	
1556	311	80/11/06	2037:05	2038:50	455	353	25480	2		
1557	311	80/11/06	2100:15	2101:00	115	69		2		
1558	311	80/11/06	2104:35	2104:45	25	88		2		
1559	311	80/11/06	2217:00	2221:55	1240	1020	2.33E+05	5	2776	M
1560	311	80/11/06	2243:20	2249:15	565	101	3955	2		
1561	311	80/11/06	2343:05	2344:10	65	70		2		
1562	312	80/11/07	0121:10	0123:20	275	116	2200	2		
4386	312	80/11/07	0135:45	0136:20	75	256	1125	2	2776	I
4387	312	80/11/07	0137:15	0139:05	220	85	1980	2		I
4388	312	80/11/07	0141:50	0142:30	195	98		2		I
4389	312	80/11/07	0145:35	0146:25	160	139	4160	2		I
4390	312	80/11/07	0149:40	0150:40	180	406	5940	5	2782	I
4391	312	80/11/07	0156:35	0157:40	155	291	5735	5		I
1563	312	80/11/07	0200:09	0204:55	661	86574	1.56E+07	15	2776	M ,EN
1564	312	80/11/07	0332:15	0333:40	215	307	7955	5	2779	
1565	312	80/11/07	0437:35	0454:30	1745	272	71545	2	2779	
1566	312	80/11/07	0516:20	0516:40	50	99		2	2776	
1567	312	80/11/07	0651:10	0654:45	280	70	1400	2	2779	
1568	312	80/11/07	0807:55	0808:20	80	226	2880	2		
1569	312	80/11/07	0812:10	0812:25	85	102	595	2		
1570	312	80/11/07	0817:35	0817:45	20	106	260	2		
1571	312	80/11/07	1000:40	1001:25	70	88		2		
1572	312	80/11/07	1007:35	1007:55	40	154	880	2		M
1573	312	80/11/07	1132:40	1134:40	500	365	26000	2	2779	
1574	312	80/11/07	1259:55	1301:55	710	953	1.61E+05	2	2776	SA
1575	312	80/11/07	1315:30	1316:35	170	89		2		
1576	312	80/11/07	1408:50	1410:30	235	178	3995	2		M ,ES
1577	312	80/11/07	1439:20	1440:00	525	1267	1.03E+05	5	2779	SA
1578	312	80/11/07	1454:25	1455:05	140	89		2		
1579	312	80/11/07	1536:05	1536:50	255	654	12750	5	2779	
1580	312	80/11/07	1713:00	1713:15	40	113	720	2	2777	
1581	312	80/11/07	1726:10	1733:20	2280	6859	1.70E+06	10	2776	M ,DG
1582	312	80/11/07	1849:30	1850:10	80	71		2		
1583	312	80/11/07	1857:00	1857:30	120	62		2		
1584	312	80/11/07	2032:45	2033:00	60	80		2	2776	
6831	312	80/11/07	2053:34	2057:11	1327	62	7150	2		
6828	312	80/11/07	2157:33	2200:30	2523	90	29171	2		I ,SN
6829	312	80/11/07	2219:14	2219:30	32	252	1611	3		I
1585	312	80/11/07	2223:50	2224:15	50	76		2		
1586	312	80/11/07	2226:00	2227:25	490	78	4900	2	2779	
1587	313	80/11/08	0118:15	0119:25	300	489	31800	5	2776	M
1588	313	80/11/08	0157:45	0158:40	180	157	7200	5		
1589	313	80/11/08	0457:30	0503:00	685	171	50005	2	2776	
8756	313	80/11/08	1000:26	1001:00	55	88	694	2		
1590	313	80/11/08	1121:20	1121:40	40	302	2480	5		
1591	313	80/11/08	1123:30	1125:10	140	1283	10080	5	2779	M
1592	313	80/11/08	1438:40	1440:20	180	103	540	2	2779	
1593	313	80/11/08	1447:55	1452:15	360	2460	78840	10	2779	M ,ES
1594	313	80/11/08	1536:30	1537:00	75	73		2	2779	
1595	313	80/11/08	1540:45	1541:00	55	132	495	2		
1596	313	80/11/08	1617:25	1619:25	245	125	3430	2	2779	
1597	313	80/11/08	1727:15	1728:45	205	305	7790	5	2779	
1598	313	80/11/08	2051:00	2052:30	310	124	4340	2	2776	
1599	313	80/11/08	2110:15	2113:00	300	194	6000	2		M
1600	313	80/11/08	2116:15	2116:45	55	379	935	5	2776	M ,EN
1601	313	80/11/08	2330:20	2330:25	185	97		2	2779	
1602	314	80/11/09	0135:35	0136:35	115	100	848	2		
1603	314	80/11/09	0430:30	0430:30	75	95		2	2779	SA
1604	314	80/11/09	0459:00	0459:15	60	100	13187	2		
1605	314	80/11/09	0632:35	0633:00	50	67		2		
1606	314	80/11/09	0635:25	0635:50	55	65		2		
1607	314	80/11/09	0817:45	0818:20	50	80		2		
1608	314	80/11/09	0819:40	0820:10	110	99		2		
1609	314	80/11/09	1132:10	1134:05	190	128	3040	5		
1610	314	80/11/09	1403:30	1403:55	60	80		2		EN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1611	314	80/11/09	1622:20	1622:30	30	78	265	2	2777	
1612	314	80/11/09	1624:50	1625:00	30	90		2	2777	
1613	314	80/11/09	1702:50	1703:10	55	68		2		
1614	314	80/11/09	1713:45	1715:00	140	146	4060	2	2779	
1615	314	80/11/09	1758:25	1758:40	35	672	2555	5		
1616	314	80/11/09	1759:45	1759:55	25	456	550	5		
1617	314	80/11/09	1911:05	1912:05	120	222	6840	2	2776	
1618	314	80/11/09	1915:05	1921:10	560	111	6720	2		
1619	314	80/11/09	1928:00	1928:55	95	130	1045	2		
1620	314	80/11/09	2032:25	2033:25	150	63	404	2		
1621	314	80/11/09	2052:50	2053:25	65	63		2		
1622	314	80/11/09	2054:45	2055:00	50	87		2		
1623	314	80/11/09	2216:20	2217:00	145	89		2		
8788	314	80/11/09	2327:44	2327:57	39	65	196	2	2776	I
1624	315	80/11/10	0258:45	0259:15	280	1359	41440	5	2776	M
1625	315	80/11/10	0426:35	0426:35	100	87		2		SA
1626	315	80/11/10	0438:20	0440:00	190	73		2		
1627	315	80/11/10	0447:05	0447:35	80	61	361	2	2777	
1628	315	80/11/10	0804:10	0808:10	460	341	47840	5	2779	
1629	315	80/11/10	0929:55	0935:00	435	97	20445	2	2779	
1630	315	80/11/10	1300:35	1301:25	115	92		2		
1631	315	80/11/10	1606:55	1611:50	660	783	62040	5	2776	M
1632	315	80/11/10	1835:20	1835:30	30	129	390	2		
1633	315	80/11/10	2150:10	2150:45	65	226	1820	5	2776	
1634	315	80/11/10	2151:20	2157:50	570	132	13110	2		
1635	315	80/11/10	2351:55	2352:25	60	102	1080	2		
1636	316	80/11/11	0625:30	0627:15	320	526	54080	5	2779	
1637	316	80/11/11	0815:10	0815:40	95	326	3800	5		M
1638	316	80/11/11	0922:30	0924:15	245	158	10486	2	2776	SA
1639	316	80/11/11	0941:00	0941:35	50	92		2		
1640	316	80/11/11	1212:30	1213:10	90	70		2		
1641	316	80/11/11	1439:20	1440:50	185	143	6845	2	2779	M ,EN
1642	316	80/11/11	1518:50	1519:40	300	1791	72300	5	2779	M
1643	316	80/11/11	1552:10	1552:10	440	202	13603	2	2779	SA
1644	316	80/11/11	1711:05	1712:40	250	88	52500	2		
1645	316	80/11/11	1722:55	1724:20	310	3694	1.07E+05	10	2779	M
1646	316	80/11/11	1737:30	1742:30	950	4382	9.48E+05	15	2777	EN
1647	316	80/11/11	1908:10	1909:00	225	125	8550	2	2776	
1648	316	80/11/11	2016:00	2016:05	10	84		2		
1649	316	80/11/11	2041:30	2041:50	40	112	280	5		
1650	316	80/11/11	2042:25	2045:25	420	429	24360	2	2776	
1651	316	80/11/11	2053:00	2054:35	820	894	2.67E+05	5	2779	M ,EN
1652	316	80/11/11	2339:35	2341:00	545	388	19075	5	2779	
1653	316	80/11/11	2352:20	2353:25	115	82		2		
1655	317	80/11/12	0236:00	0236:25	170	120	3400	2		SA
1656	317	80/11/12	0242:55	0249:30	965	968	1.05E+05	5	2779	M
1657	317	80/11/12	0300:10	0300:35	230	161	460	5	2776	
1658	317	80/11/12	0311:00	0312:25	160	103	2720	2	2777	
1659	317	80/11/12	0317:45	0318:05	85	86		2		
1660	317	80/11/12	0424:55	0425:05	45	79		2		
1661	317	80/11/12	0445:50	0452:00	1045	50219	4.17E+06	15	2776	M ,EN
4306	317	80/11/12	0801:35	0802:10	65	66		2	2779	I
1662	317	80/11/12	0918:35	0919:45	165	96		2	2779	
1663	317	80/11/12	0943:40	0945:35	150	83		2		
1664	317	80/11/12	1102:20	1102:55	195	198	9417	2		
1665	317	80/11/12	1659:45	1702:15	390	653	64740	5	2779	
4307	317	80/11/12	1732:25	1735:35	372	66	2421	2	2779	I
1666	317	80/11/12	2003:00	2003:40	135	68		2		
1667	317	80/11/12	2138:55	2139:55	125	80		2	2779	
1668	317	80/11/12	2151:50	2152:45	215	890	34615	5	2776	M
1669	317	80/11/12	2230:35	2231:10	50	99		2	2779	
1670	317	80/11/12	2334:10	2344:25	755	155	9815	2		
1671	317	80/11/12	2351:20	2355:55	795	102	23055	2	2779	
1672	318	80/11/13	0007:10	0008:20	305	95	3660	2		
1673	318	80/11/13	0049:15	0057:00	1750	6915	9.45E+05	10	2779	
1674	318	80/11/13	0257:10	0257:25	50	86		2		
1675	318	80/11/13	0301:30	0314:30	1360	234	57120	2		
1676	318	80/11/13	0937:35	0946:40	545	1593	2.73E+05	10	2777	M ,EN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1677	318	80/11/13	1912:00	1916:40	620	483	1.34E+05	2	2779	EN
1678	318	80/11/13	2031:05	2031:35	120	88		2		
1679	319	80/11/14	0102:35	0104:50	195	76		2		
1680	319	80/11/14	0108:05	0108:50	130	60		2		
1681	319	80/11/14	0110:35	0117:30	515	93	2060	2	2779	
1682	319	80/11/14	0130:25	0131:25	140	71		2		
1683	319	80/11/14	0248:30	0249:20	195	61		2	2779	
1684	319	80/11/14	0256:50	0258:40	180	209	6840	2	2779	
1685	319	80/11/14	0454:40	0455:40	145	794	27985	5	2779	M
1686	319	80/11/14	0731:00	0748:20	7945	396	8.10E+05	5		M ,SN,EN
1687	319	80/11/14	1252:30	1253:30	195	109	2730	2	2779	M
1688	319	80/11/14	1428:10	1428:40	40	78		2		
1689	319	80/11/14	1516:50	1517:30	80	90		2	2779	
1690	319	80/11/14	1539:35	1539:50	775	1499	1.81E+05	5	2779	M
1691	319	80/11/14	1557:30	1558:20	180	99		2		
1692	319	80/11/14	1601:50	1602:20	100	120	8000	2		
1693	319	80/11/14	1827:00	1830:25	1140	716	1.35E+05	5		
1694	319	80/11/14	1847:35	1849:40	400	817	38400	5	2779	
1695	319	80/11/14	2211:45	2216:05	485	131	15035	2	2779	
1696	319	80/11/14	2350:30	2359:10	930	3520	1.17E+06	5	2779	M
1697	320	80/11/15	0100:55	0101:10	45	77		2		
1698	320	80/11/15	0559:30	0559:55	60	150	1140	2		
1699	320	80/11/15	0755:10	0755:55	70	143	1120	2		
1700	320	80/11/15	1335:50	1337:10	330	134	7920	2	2779	
1701	320	80/11/15	1412:45	1414:40	760	109	9120	2		
1702	320	80/11/15	1516:15	1543:30	2860	12939	5.65E+06	10	2779	M
1703	320	80/11/15	1715:45	1716:20	100	123	1300	2		
1704	320	80/11/15	1950:10	1959:45	1475	1593	3.05E+05	5	2779	M
1705	320	80/11/15	2133:15	2133:45	65	120	1495	5	2788	
1706	320	80/11/15	2145:40	2146:25	220	1219	37400	5	2779	
1707	320	80/11/15	2322:10	2323:40	105	69		2		
1708	321	80/11/16	0301:05	0301:55	155	1115	41540	5	2779	M
1709	321	80/11/16	0311:00	0311:45	110	182	3080	5		
1710	321	80/11/16	0901:15	0904:25	720	3909	3.90E+05	10	2788	M
1711	321	80/11/16	1048:20	1048:45	80	135	2320	2		
1712	321	80/11/16	1330:45	1331:00	70	78		2	2779	
1713	321	80/11/16	1819:00	1819:10	80	132	1680	2		
1714	321	80/11/16	1907:45	1908:20	70	75		2		
1715	321	80/11/16	1953:40	1955:20	120	70		2		
1716	321	80/11/16	1955:50	1957:35	145	69		2		
1717	321	80/11/16	1959:00	1959:20	35	101	525	2		
1718	321	80/11/16	2000:35	2001:15	170	622	12920	5		
1719	321	80/11/16	2005:45	2006:55	230	169	6900	2		
1720	321	80/11/16	2016:35	2022:20	960	1572	2.28E+05	10	2794	
1721	321	80/11/16	2147:35	2148:40	175	66		2	2790	
1722	322	80/11/17	0542:10	0546:25	500	160	15332	2	2790	
1723	322	80/11/17	0917:35	0921:35	380	131	7600	2	2790	
1724	322	80/11/17	1333:50	1337:50	1170	3110	7.21E+05	5	2779	M
1725	322	80/11/17	1544:10	1546:25	200	207	6720	5	2779	
1726	322	80/11/17	1548:15	1548:45	66	110	799	2		
1727	322	80/11/17	2023:25	2024:30	119	203	4882	2	2794	
1728	323	80/11/18	0418:45	0420:10	115	92		2		
1729	323	80/11/18	0544:15	0545:50	165	1002	26065	5	2779	M
1730	323	80/11/18	0614:00	0614:40	110	72		2	2790	
1731	323	80/11/18	0716:15	0718:20	535	1445	55943	10	2779	M
5721	323	80/11/18	0904:24	0905:38	133	79		2		I
1732	323	80/11/18	1003:15	1003:50	125	114	623	2	2788	SN,ES
1733	323	80/11/18	1037:50	1039:00	135	99		2		
1734	323	80/11/18	1140:55	1141:15	180	289	9100	5	2793	M
1735	323	80/11/18	1145:20	1145:35	55	76		2		
1736	323	80/11/18	1416:55	1417:25	56	140	585	2	2790	M
1737	323	80/11/18	1450:20	1452:05	590	6890	3.42E+05	10	2779	M
1738	323	80/11/18	1534:30	1535:05	100	71		2		
1739	323	80/11/18	1652:45	1653:05	90	95		2	2794	
1740	323	80/11/18	2213:35	2214:25	90	71		2	2779	
1741	324	80/11/19	0029:35	0030:15	102	292	5215	5	2790	
1742	324	80/11/19	0241:40	0242:00	45	83		2		
1743	324	80/11/19	0434:25	0439:05	300	321	33035	2	2779	EN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1744	324	80/11/19	0533:00	0542:05	1008	1480	2.80E+05	5	2779	M
1745	324	80/11/19	0851:40	0852:00	50	95		2	2790	
1746	324	80/11/19	1236:15	1237:15	127	440	14894	5	2790	M
1747	324	80/11/19	1335:55	1336:10	26	150	927	5		
1748	324	80/11/19	1336:30	1336:50	44	147	1020	5		
1749	324	80/11/19	1447:50	1448:05	40	129	927	2		
1750	324	80/11/19	1706:05	1706:15	34	121	431	15	2794	NS,GB
1751	324	80/11/19	2122:15	2122:50	59	111	887	2	2793	
1752	324	80/11/19	2132:15	2143:35	1159	78	11934	2	2793	
1753	324	80/11/19	2202:40	2203:00	47	107	682	2	2779	
1754	324	80/11/19	2204:00	2204:35	195	78		2		
1755	325	80/11/20	0528:35	0529:05	61	145	1751	2		
1756	326	80/11/21	0743:05	0743:30	134	2676	52056	5	2793	M
1757	327	80/11/22	0529:35	0532:55	341	87	2756	2	2793	
1758	327	80/11/22	0541:45	0543:55	528	297	36494	5	2797	
5730	327	80/11/22	1528:50	1529:01	43	62		2	2794	I
1759	328	80/11/23	0209:35	0209:45	20	69		2		
1760	328	80/11/23	1839:50	1844:40	623	183	27754	2	2793	M ,EN
1761	328	80/11/23	2117:25	2117:40	72	137	1422	2		
1762	329	80/11/24	0228:35	0229:10	80	80	84	2	2793	
1763	329	80/11/24	0840:15	0840:35	45	71		2		
1764	329	80/11/24	0843:00	0843:30	93	110	1288	2		
1765	329	80/11/24	1345:05	1348:20	611	203	21457	2	2793	
1766	329	80/11/24	1433:35	1434:00	195	275	7559	5	2794	M
1767	329	80/11/24	1701:00	1702:05	168	123	3177	2	2793	
1768	329	80/11/24	1928:10	1931:10	1091	254	37758	10		
1769	329	80/11/24	2251:55	2252:10	110	75		10		
1770	330	80/11/25	0228:15	0230:00	165	95		2	2801	
1771	330	80/11/25	0649:40	0650:10	89	108	995	2		
1772	330	80/11/25	0654:50	0656:20	158	205	6086	5		
1773	330	80/11/25	0901:15	0902:25	149	113	1650	2		
1774	331	80/11/26	0813:05	0813:30	45	79		2	2794	
1775	331	80/11/26	1036:15	1036:25	20	81		2		
1776	331	80/11/26	1604:15	1604:35	125	80		2		
5731	332	80/11/27	0232:52	0233:10	30	74		2		I
1777	332	80/11/27	0951:30	0952:15	75	72		2		
1778	332	80/11/27	1136:20	1136:40	54	143	853	2		
1779	333	80/11/28	0147:30	0147:50	110	53		2		
1780	333	80/11/28	0937:40	0949:00	3473	544	1.97E+05	5	2810	EN
1781	333	80/11/28	1330:00	1330:55	115	71		2		
1782	333	80/11/28	1429:50	1436:20	1311	405	1.18E+05	10		
1783	334	80/11/29	1440:20	1440:55	71	139	1439	5	2810	
1784	335	80/11/30	0630:30	0631:00	85	72		2	2810	
1785	335	80/11/30	1447:00	1447:35	92	112	891	2	2810	
1786	335	80/11/30	1512:05	1513:00	150	180	10687	5		EN
1787	336	80/12/01	0009:25	0011:35	165	108	2711	2	2810	
1788	336	80/12/01	0625:05	0626:00	190	84		2	2810	
1789	336	80/12/01	1132:35	1133:50	215	77	1448	2		
1790	336	80/12/01	1329:30	1330:15	155	76		2		
1791	336	80/12/01	1929:30	1930:50	165	1313	20077	5	2810	M
1792	337	80/12/02	0619:15	0619:50	128	139	4566	2		
1793	337	80/12/02	0624:45	0627:10	310	184	10269	2	2810	
1794	337	80/12/02	0745:40	0746:10	40	316	1862	5		
1795	337	80/12/02	0748:40	0749:05	35	594	5067	10		
1796	337	80/12/02	1118:55	1123:45	1362	6489	1.23E+06	6	2810	M
1797	337	80/12/02	1236:55	1243:10	938	814	2.02E+05	5	2812	FS
1798	337	80/12/02	1727:40	1728:15	80	99		2	2816	
1799	337	80/12/02	1920:30	1921:40	255	160	5481	2	2810	
1800	337	80/12/02	2354:45	2358:00	338	124	6382	2	2810	
1801	338	80/12/03	0022:55	0023:35	93	103	1080	2	2812	EW
1802	338	80/12/03	1058:05	1058:15	60	93		2		EW
1803	339	80/12/04	0610:45	0611:40	145	99		2	2810	
1804	339	80/12/04	0614:35	0615:10	65	74		2		
1805	339	80/12/04	1119:10	1119:20	70	127	775	2		
1806	339	80/12/04	1228:40	1229:25	105	85		2		
1807	340	80/12/05	0443:45	0444:15	129	575	14852	5	2824	
1808	340	80/12/05	1106:00	1106:25	60	78		2		
1809	340	80/12/05	1126:30	1126:50	113	342	4673	5		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1810	340	80/12/05	1131:50	1132:10	98	135	1368	2		
5753	341	80/12/06	1134:26	1135:03	61	89		2		I
1811	341	80/12/06	1241:45	1242:20	75	72		2		
1812	341	80/12/06	1310:55	1311:25	65	78		2		
1813	341	80/12/06	1445:25	1446:50	177	133	4203	5		M
1814	341	80/12/06	2150:15	2151:10	123	105	1027	2		
1815	341	80/12/06	2158:25	2159:00	58	130	1030	2	2810	
1816	341	80/12/06	2216:30	2217:00	85	80		2		
1817	341	80/12/06	2338:40	2338:45	25	97		2		
1818	342	80/12/07	0149:55	0150:25	100	85		2	2826	
1819	343	80/12/08	0721:30	0722:10	100	73		2	2826	
6754	343	80/12/08	2036:07	2036:29	61	83		2	2826	
1820	344	80/12/09	0124:50	0128:10	332	78	1422	2		
1821	344	80/12/09	2142:05	2142:35	45	91		2	2826	
1822	345	80/12/10	0311:05	0312:35	120	137	2904	2	2826	
1823	345	80/12/10	0914:10	0919:25	619	95	7452	2		
1824	345	80/12/10	0940:15	0941:10	185	81		2		
1825	345	80/12/10	2006:10	2006:50	82	115	1374	2		
1826	345	80/12/10	2144:05	2146:20	208	102	2096	2		
1827	345	80/12/10	2148:30	2150:15	142	104	1469	2	2824	
1828	346	80/12/11	0710:30	0711:25	122	111	2221	2		
1829	346	80/12/11	0718:30	0719:05	71	107	964	2		
1830	346	80/12/11	0722:20	0722:40	35	77		2		
1831	346	80/12/11	1247:50	1248:50	125	72		2		
1832	346	80/12/11	1507:35	1508:05	65	84		2		
1833	347	80/12/12	1955:30	1957:15	140	99		2		
1834	347	80/12/12	2121:50	2123:50	180	51		2	2826	
1835	348	80/12/13	0305:15	0306:20	195	75		2	2840	
1836	348	80/12/13	0543:30	0544:05	80	86		2	2838	
1837	349	80/12/14	1053:00	1053:45	65	80		2	2840	
1838	349	80/12/14	1408:05	1408:25	45	83		2	2841	
1839	349	80/12/14	1450:10	1450:40	70	73		2		
1840	349	80/12/14	1452:35	1454:55	204	118	3027	2	2840	
1841	349	80/12/14	1504:35	1505:05	96	179	3396	2	2841	M
1842	350	80/12/15	0051:05	0052:20	135	116	3548	2	2840	
1843	350	80/12/15	0740:05	0740:25	35	85		2	2840	
1844	350	80/12/15	1817:40	1817:45	18	133	367	5		
1845	350	80/12/15	2135:55	2136:25	68	202	1668	5		
1846	351	80/12/16	0101:05	0101:25	143	765	20890	5	2840	M
1847	351	80/12/16	0352:40	0353:00	50	81		2	2841	
1848	351	80/12/16	0906:30	0907:40	285	213	14856	5	2840	
1849	351	80/12/16	0954:35	0956:25	363	768	1.11E+05	5	2840	M ,SN,ES
1850	351	80/12/16	1451:45	1453:30	379	3958	1.00E+05	10	2840	M ,ES
1851	352	80/12/17	0422:50	0423:35	91	324	3865	5	2840	M
1852	352	80/12/17	0845:05	0845:45	118	3601	43674	15	2840	M
1853	352	80/12/17	1132:20	1132:55	55	166	1114	5	2840	M
1854	352	80/12/17	1206:50	1208:30	670	2365	2.05E+05	5	2840	M ,SA
1855	352	80/12/17	2255:10	2257:35	242	404	24271	5	2826	
1856	353	80/12/18	0147:15	0147:40	169	217	7289	2	2840	SN
1857	353	80/12/18	1921:10	1921:20	41	6038	27052	15	2840	
1858	353	80/12/18	1933:55	1934:05	35	98		2		
1859	354	80/12/19	1608:05	1627:15	1161	128	32516	5		ES
1860	354	80/12/19	2012:15	2012:40	138	288	11757	5	2840	
8586	355	80/12/20	1830:50	1830:54	12	86	283	15		NS,GB
1861	356	80/12/21	0359:50	0400:30	127	113	2506	2	2839	
1862	356	80/12/21	2133:05	2133:15	37	108	764	2	2841	
1863	357	80/12/22	0204:35	0205:50	80	71		2	2841	
1864	357	80/12/22	1501:05	1501:20	64	108	1184	2	2843	
1865	358	80/12/23	2114:10	2115:50	262	1600	72137	10	2857	
1866	359	80/12/24	1002:25	1002:40	30	75		2		
1867	359	80/12/24	1054:30	1054:55	45	70		2		
1868	359	80/12/24	2230:40	2230:45	40	95		2		
1869	360	80/12/25	0125:55	0128:00	571	165	20124	10		
1870	360	80/12/25	0649:00	0649:35	70	94		2	2855	
1871	360	80/12/25	1912:45	1913:25	145	119	2339	2	2855	
1872	360	80/12/25	2031:00	2031:30	60	81		2		
1873	360	80/12/25	2051:35	2052:00	53	130	1646	2	2857	
1874	361	80/12/26	0032:25	0033:40	130	72		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1875	361	80/12/26	0330:15	0330:30	22	109	205	2	2857	
1876	361	80/12/26	0623:30	0624:05	79	184	3360	5	2855	
1877	361	80/12/26	0815:30	0815:40	20	70		2		
1878	362	80/12/27	0822:40	0822:55	30	80		2		
1879	362	80/12/27	2241:15	2241:40	44	167	1351	5	2855	
1880	362	80/12/27	2329:50	2330:40	180	99		5		
1881	363	80/12/28	0451:30	0452:35	145	74		2		
1882	363	80/12/28	1129:05	1130:45	115	121	1519	2	2855	
1883	363	80/12/28	1431:25	1431:40	29	110	415	2	2855	
1884	363	80/12/28	1712:00	1712:45	124	209	4578	5	2855	
1885	363	80/12/28	1757:20	1757:55	45	110	739	2	2855	
1886	363	80/12/28	1903:55	1906:45	337	1889	86541	10	2855	
1887	363	80/12/28	1919:45	1920:10	49	208	1398	5	2855	
1888	363	80/12/28	2145:10	2145:20	30	74		2	2855	
1889	363	80/12/28	2229:25	2229:40	45	82		2		
1890	363	80/12/28	2243:40	2243:50	30	65		2		
1891	363	80/12/28	2339:00	2340:00	219	167	5003	5	2855	
1892	363	80/12/28	2355:30	2355:50	85	277	2647	5	2857	
1893	364	80/12/29	0105:45	0106:40	420	225	34304	10		
1894	364	80/12/29	0132:05	0132:15	20	76		2	2855	
1895	364	80/12/29	0424:10	0424:55	135	778	12088	10	2855	
1896	364	80/12/29	1031:40	1033:20	107	305	6075	5	2855	ES
1897	364	80/12/29	1125:00	1127:30	336	202	12794	2	2855	
1898	364	80/12/29	1305:30	1305:40	57	357	5293	5	2855	
1899	364	80/12/29	1425:50	1426:40	130	86		2		
1900	364	80/12/29	1429:50	1430:05	205	206	3885	5	2855	
1901	364	80/12/29	2032:05	2032:35	90	72		2	2855	
5779	365	80/12/30	1917:47	1917:58	40	81		2		I
1902	1	81/01/01	0051:50	0052:55	105	83		5		
1903	2	81/01/02	0038:55	0038:55	70	94		10		SA
1904	3	81/01/03	0036:45	0038:20	120	95		2		
1905	3	81/01/03	0252:10	0253:15	130	87		2		
1906	3	81/01/03	1550:30	1551:15	150	92		2		
1907	3	81/01/03	1838:20	1838:40	65	62		2		
1908	4	81/01/04	0922:40	0923:30	88	163	1436	2		
1909	5	81/01/05	0024:55	0024:55	70	137	268	10		SA,EW
1910	5	81/01/05	1619:10	1619:20	539	186	25680	2		SN
1911	5	81/01/05	2002:34	2006:05	288	80		2		
1912	5	81/01/05	2012:50	2013:20	85	212	3707	2		
1913	5	81/01/05	2138:45	2139:05	96	757	15314	5		M
1914	6	81/01/06	0426:15	0428:40	515	163	17562	5		
1915	6	81/01/06	1202:15	1203:10	250	133	4712	2		
12678	7	81/01/07	0848:43	0848:45	17	68	111	3		NS,GB
1916	7	81/01/07	1534:55	1535:10	90	67		2		
1917	8	81/01/08	1223:25	1224:40	135	132	3686	2		
1918	8	81/01/08	1313:45	1314:50	125	77		2		
1919	10	81/01/10	0458:00	0459:10	243	335	17215	5		
1920	10	81/01/10	1255:15	1256:10	127	452	9207	5		
1921	11	81/01/11	0958:50	0959:15	40	79		2		
1922	11	81/01/11	1200:20	1200:35	50	83		2		
1923	12	81/01/12	0512:40	0513:10	64	112	466	2		
1924	12	81/01/12	0515:10	0515:25	45	97		2		
1925	14	81/01/14	0937:40	0938:25	135	86		2		
1926	14	81/01/14	1232:50	1234:10	165	95		2		
1927	14	81/01/14	2058:50	2100:25	193	340	17334	5		
1928	14	81/01/14	2226:50	2226:55	93	114	1609	10		
1929	15	81/01/15	1721:30	1722:00	65	69		2		
1933	16	81/01/16	0307:35	0307:55	45	81		2		
1930	16	81/01/16	0606:40	0607:20	55	82		2		
1931	16	81/01/16	0657:00	0657:25	25	74		2		
1932	16	81/01/16	0834:35	0835:00	54	336	4641	5		
1934	17	81/01/17	1423:15	1423:45	75	65		2		
1935	22	81/01/22	1516:50	1517:30	60	83		2		
1936	24	81/01/24	0712:30	0713:30	150	68		2		
1937	25	81/01/25	0109:25	0110:35	99	423	3774	5		
1938	25	81/01/25	0120:30	0121:50	170	95		2		
1939	25	81/01/25	0217:50	0221:30	387	613	71410	5		
1940	25	81/01/25	0406:35	0408:35	510	341	22496	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
1941	25	81/01/25	0615:05	0616:40	210	180	12305	2		EN
1942	25	81/01/25	0709:25	0710:50	274	254	14968	2	2907	
1943	25	81/01/25	0744:15	0747:00	551	31930	2.35E+06	10		M
5795	25	81/01/25	0830:28	0830:41	113	753	16886	3		I
5796	25	81/01/25	0832:34	0833:24	109	262	9083	2		I
5797	25	81/01/25	0846:36	0905:31	2597	1281	1.16E+06	15		I
1944	25	81/01/25	1029:10	1029:40	95	83		2		
1945	25	81/01/25	1047:35	1048:40	142	105	2013	2		
1946	25	81/01/25	1639:35	1647:10	656	556	53094	2	2911	M
1947	25	81/01/25	1959:10	2000:00	133	117	1566	2		
1948	25	81/01/25	2308:05	2308:50	190	76		2		
1949	25	81/01/25	2321:20	2322:30	223	114	3267	2		
1950	26	81/01/26	0205:15	0209:30	668	826	68507	5	2911	M ,FS
1951	26	81/01/26	0250:05	0255:40	734	394	55083	5		
1952	26	81/01/26	0402:10	0402:55	125	79		2		
1953	26	81/01/26	0407:55	0411:50	326	177	10049	2		
1954	26	81/01/26	0723:00	0723:25	68	147	1549	2		
1955	26	81/01/26	1013:10	1015:00	255	178	8400	2		
1956	26	81/01/26	1029:35	1031:00	210	305	12068	2		
1957	26	81/01/26	1234:05	1235:05	139	240	8201	2		M
1958	26	81/01/26	1318:40	1319:10	70	65		2		
1959	26	81/01/26	1321:50	1321:55	80	63		2		
1960	26	81/01/26	2005:35	2006:00	45	82		2		
1961	27	81/01/27	0031:05	0031:30	35	74		2		
1962	27	81/01/27	0402:00	0402:30	110	83		2		
1963	27	81/01/27	0532:45	0535:20	386	305	17629	2		
1964	27	81/01/27	1540:55	1542:15	91	197	4386	5	2911	M ,EN
1965	27	81/01/27	2312:30	2312:50	55	99		2		
1966	28	81/01/28	0204:05	0213:35	1239	381	88176	5	2911	
1967	28	81/01/28	0244:45	0245:35	70	90		2		
1968	28	81/01/28	0409:35	0413:20	1101	10450	1.08E+06	12	2911	M
1969	28	81/01/28	0516:05	0516:25	45	63		2		
1970	28	81/01/28	0831:45	0832:00	60	98		2		
1971	28	81/01/28	1953:00	1953:20	40	100	952	2		
1972	29	81/01/29	0024:15	0024:55	72	226	2320	5		
1973	29	81/01/29	0026:10	0028:20	330	181	11001	2	2911	
1974	29	81/01/29	0408:45	0409:20	274	310	9721	5		
12679	29	81/01/29	0415:31	0415:49	23	57	100	3		NS,GB
1975	29	81/01/29	1023:00	1023:20	45	53		2		
1976	29	81/01/29	1209:20	1209:40	50	89		2		
1977	29	81/01/29	1444:00	1444:05	47	110	755	2		
1978	29	81/01/29	1445:20	1446:15	81	540	7390	10		M
1980	30	81/01/30	0010:05	0010:30	35	83		2		
1981	30	81/01/30	0320:25	0320:50	50	76		2		
1982	30	81/01/30	0327:10	0328:00	91	140	1215	2		
1983	30	81/01/30	0401:25	0401:30	20	69		2		
1984	30	81/01/30	0848:55	0849:20	99	118	1795	2		
1985	30	81/01/30	1038:35	1038:55	60	61		2		
1986	30	81/01/30	1121:35	1122:05	94	247	3284	5		M
1987	30	81/01/30	1622:40	1623:15	77	121	1204	2		
1988	30	81/01/30	2119:30	2120:15	70	64		2		
1989	31	81/01/31	0703:20	0703:40	50	93		2		
1990	31	81/01/31	1029:30	1030:35	222	104	3898	2		
1991	31	81/01/31	1932:35	1933:35	112	723	9611	5		
1992	31	81/01/31	2358:55	2359:35	198	274	5120	5		
1993	32	81/02/01	0334:55	0335:20	47	179	1487	2		
1994	32	81/02/01	0346:25	0346:40	75	97		2		
1995	33	81/02/02	1241:30	1241:50	30	69		2		
1996	33	81/02/02	1242:20	1242:30	25	62		2		
1997	33	81/02/02	1549:25	1549:50	125	65		2		
1998	33	81/02/02	1904:15	1904:55	70	70		2		
1999	36	81/02/05	1003:40	1004:05	45	76		2		
2000	36	81/02/05	2225:15	2234:15	1653	120	17321	5	2911	
2001	37	81/02/06	0027:05	0028:20	178	176	8172	2		M
2002	37	81/02/06	1621:05	1621:15	47	137	980	2		
2003	37	81/02/06	2057:35	2057:55	65	75		2		
2004	37	81/02/06	2159:20	2200:00	164	187	9071	2		
2005	37	81/02/06	2338:35	2339:15	132	327	6135	5		M

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2006	38	81/02/07	0117:05	0118:15	312	122	7502	5		
2007	38	81/02/07	0319:00	0319:27	80	69		2		
2008	38	81/02/07	0325:45	0325:55	35	80		2		
2009	38	81/02/07	0332:35	0333:10	190	1135	32644	5		M
2010	38	81/02/07	0503:30	0503:50	65	108	1131	2		
2011	38	81/02/07	1348:15	1348:40	103	2069	35404	10		
2012	38	81/02/07	1352:55	1355:10	338	102	4009	2		
2013	38	81/02/07	1534:20	1535:05	153	214	4402	5		
2014	38	81/02/07	1708:25	1708:45	40	79		2		
2015	38	81/02/07	1754:55	1755:45	115	74		2		
2016	38	81/02/07	1757:10	1757:45	105	101	1781	2		
2017	38	81/02/07	1835:00	1835:10	220	447	26322	5	2930	SN
2018	38	81/02/07	1845:45	1845:55	35	87		2		
2019	38	81/02/07	1848:00	1849:35	130	143	1550	2		
2020	38	81/02/07	2058:20	2058:30	162	256	6564	5		
2021	38	81/02/07	2155:00	2155:50	208	84	3382	5		
2022	38	81/02/07	2217:45	2218:50	199	196	7164	2		
2023	38	81/02/07	2225:10	2229:40	555	235	34125	2	2930	
2024	39	81/02/08	0103:00	0103:20	45	95		2		
2025	39	81/02/08	0109:35	0110:50	287	171	9317	5		
2026	39	81/02/08	0116:40	0117:20	84	143	2040	5		
2027	39	81/02/08	0118:20	0120:30	222	150	3824	5		
2028	39	81/02/08	0129:25	0137:35	555	138	7140	2		
2029	39	81/02/08	0138:45	0140:40	306	602	29307	5	2930	
2030	39	81/02/08	0325:20	0329:20	437	866	71962	5	2930	
2031	39	81/02/08	0421:25	0422:20	166	423	11779	5		
2032	39	81/02/08	0449:45	0450:05	45	77		2		
2033	39	81/02/08	0757:30	0757:50	55	89		2		
2034	39	81/02/08	0759:20	0759:45	60	87		2		
2035	39	81/02/08	0938:40	0939:10	68	784	3735	5		
2036	39	81/02/08	0940:25	0940:55	125	425	2073	5		
2037	39	81/02/08	1348:35	1349:35	153	307	8191	5		EW
2038	39	81/02/08	1523:05	1523:20	35	82		2		EW
2039	39	81/02/08	1708:20	1708:30	20	142	575	2		
2040	39	81/02/08	1839:50	1839:55	25	81		2		
2041	39	81/02/08	2027:45	2028:15	47	117	948	5		
2042	39	81/02/08	2150:20	2153:25	336	228	15638	10		
2043	40	81/02/09	0236:15	0237:30	130	88		2		
2044	40	81/02/09	0302:35	0302:50	50	80		2		
2045	40	81/02/09	0403:35	0414:05	985	140	27214	10		AX
5798	40	81/02/09	1121:18	1121:49	64	1680	21656	9		I ,FS
2046	40	81/02/09	1254:40	1255:00	31	62	210	2		
2047	40	81/02/09	1522:45	1523:25	90	68		2		
2048	40	81/02/09	1612:10	1612:15	25	60		2		
2049	40	81/02/09	1648:55	1649:30	115	73		2		EW
2050	40	81/02/09	2008:20	2009:10	170	67		5		
2051	40	81/02/09	2042:15	2051:15	758	101	5160	5		
2052	40	81/02/09	2142:40	2143:40	313	244	18634	10		
2053	40	81/02/09	2351:40	2352:05	60	62		2		
2054	41	81/02/10	0006:00	0006:45	95	58		2		
2055	41	81/02/10	0057:50	0058:55	150	92		5		
2056	41	81/02/10	0138:25	0139:15	156	127	2966	2		
2057	41	81/02/10	0141:25	0141:50	65	66		2		
2058	41	81/02/10	0222:40	0223:45	135	965	22494	10		
2059	41	81/02/10	0251:45	0252:35	205	510	7741	10		
2060	41	81/02/10	0308:40	0309:20	110	160	3903	5		M
2061	41	81/02/10	0316:00	0321:00	365	1217	31002	10	2926	
2062	41	81/02/10	0437:35	0438:30	165	71		2		
2063	41	81/02/10	0559:30	0601:10	190	284	6518	5		
2064	41	81/02/10	0927:10	0927:30	81	130	850	5		
2065	41	81/02/10	1333:25	1333:50	45	77		2		
2066	41	81/02/10	1913:25	1914:10	65	64		2		
2067	42	81/02/11	0119:20	0131:50	960	84	7361	2		
2068	42	81/02/11	0245:15	0245:55	95	90		2		
2069	42	81/02/11	0610:35	0611:05	65	57		2		
2070	42	81/02/11	1053:05	1053:30	50	99		2		
2071	42	81/02/11	2003:05	2003:25	40	85		2		
2072	43	81/02/12	0121:35	0122:20	225	494	9845	5		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2073	43	81/02/12	0412:50	0413:30	68	218	1982	5		
2074	43	81/02/12	0432:55	0433:50	140	136	4553	2		
5842	43	81/02/12	0929:17	0931:18	208	295	9988	3		I
2075	43	81/02/12	1048:15	1049:15	137	360	8410	5		
2076	43	81/02/12	1241:00	1242:20	169	1043	36119	10		M
2077	43	81/02/12	1731:10	1731:25	75	125	1611	2		M
2078	43	81/02/12	1809:25	1810:30	100	66		2		
2079	43	81/02/12	2000:25	2002:25	180	91		2		
2080	44	81/02/13	0042:15	0044:35	259	89	6504	2		
2081	44	81/02/13	0412:45	0416:15	400	132	12355	2		
2082	44	81/02/13	0549:40	0550:10	57	103	1471	2		
2083	44	81/02/13	0614:30	0617:25	193	128	3102	2		
2084	44	81/02/13	1406:10	1408:20	188	234	10187	2		
2085	44	81/02/13	1701:40	1701:55	35	72		2		
5843	44	81/02/13	2159:43	2200:07	50	115	1257	2		I
2086	45	81/02/14	1213:35	1214:15	120	96		2		
2087	46	81/02/15	0050:20	0050:55	201	242	11721	2		
2088	46	81/02/15	0243:40	0244:05	65	137	2326	2		
2089	46	81/02/15	1938:15	1938:45	86	104	1513	2		
2090	46	81/02/15	2111:40	2112:10	112	458	33325	10	2945	M
2091	47	81/02/16	0239:25	0240:00	65	165	1810	2		
2092	47	81/02/16	0546:35	0547:05	124	158	3215	2		
2093	47	81/02/16	0550:55	0551:10	32	136	1045	2		
2094	47	81/02/16	0840:15	0840:25	33	115	363	2		
2095	47	81/02/16	1215:20	1215:50	293	146	5214	2		
2096	47	81/02/16	1508:50	1509:05	43	107	1300	2		
2097	48	81/02/17	0013:05	0014:15	155	106	2691	5		
2098	48	81/02/17	0410:05	0411:00	96	143	2169	2		
2099	48	81/02/17	2145:30	2146:30	451	9646	9.40E+05	15	2941	M
2100	49	81/02/18	1333:45	1334:00	77	289	2525	5		
2101	49	81/02/18	1456:20	1456:40	30	73		2		
2102	49	81/02/18	1639:10	1639:25	217	239	6239	5	2941	
2103	49	81/02/18	2238:10	2238:50	60	71		2		
2104	50	81/02/19	0324:15	0337:15	2810	1906	1.17E+06	10	2953	M
2105	50	81/02/19	1419:25	1420:15	95	84		2		
2106	50	81/02/19	1951:35	1952:25	95	64		2		
2107	50	81/02/19	2133:15	2133:25	41	240	1157	5		
2108	50	81/02/19	2137:10	2138:00	118	150	2288	2		
2109	51	81/02/20	0535:25	0536:05	75	65		2		
5844	51	81/02/20	0639:03	0645:51	2036	25356	5.90E+06	9	2941	M ,I
2110	51	81/02/20	2232:15	2232:45	55	78		2		
2111	51	81/02/20	2253:45	2254:25	85	79		2		
2112	51	81/02/20	2301:30	2302:00	104	106	21835	2		
2113	52	81/02/21	1553:45	1554:05	25	98		5		
2114	52	81/02/21	1632:10	1632:35	55	93		2		
2115	52	81/02/21	1852:55	1854:30	312	126	8555	5		
2116	52	81/02/21	1902:10	1903:05	181	214	8437	5		
2117	52	81/02/21	1934:50	1935:05	35	62		2		
2118	52	81/02/21	2030:45	2033:05	258	162	10545	5		
2119	52	81/02/21	2208:20	2208:40	30	96		2		
2120	52	81/02/21	2220:20	2222:10	141	103	1325	2		
2121	52	81/02/21	2227:00	2227:05	15	67		2		
2122	52	81/02/21	2229:35	2229:45	25	198	1042	2		
5849	53	81/02/22	0000:51	0001:09	40	107	485	2		I
5847	53	81/02/22	1543:56	1552:37	795	87	9876	2		I
5848	53	81/02/22	1606:30	1606:51	64	71		2		I
2123	53	81/02/22	1904:40	1904:55	55	118	955	2		
2124	53	81/02/22	2114:25	2115:15	60	98		2		
5850	54	81/02/23	0007:22	0007:41	102	68		2		I
2125	54	81/02/23	0024:50	0024:55	45	68		2		
2126	54	81/02/23	0616:10	0617:10	115	96		2		EW
2127	54	81/02/23	0652:35	0657:05	520	105	10026	4		EW
2128	55	81/02/24	0008:30	0011:05	1525	8243	1.05E+06	15	2958	
2129	55	81/02/24	0629:20	0632:45	316	118	3515	2		
5851	55	81/02/24	0755:15	0759:58	577	85	8245	2		I ,ND
5852	55	81/02/24	0817:52	0818:42	113	62		2		I
5853	55	81/02/24	0820:33	0821:35	94	433	11734	4		I ,EG
2130	55	81/02/24	1059:00	1059:20	610	131	14682	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2131	55	81/02/24	1121:35	1121:55	50	157	1389	2		
2132	55	81/02/24	1134:25	1134:45	40	73		2		
2133	55	81/02/24	1217:45	1226:35	1878	3276	1.59E+06	10		SN
2134	55	81/02/24	1623:35	1624:15	60	76		2		
2135	55	81/02/24	1757:15	1759:05	588	62	364	2		
2136	55	81/02/24	1855:40	1856:55	165	65		2		
2137	55	81/02/24	1932:45	1936:35	607	19518	3.43E+06	15	2958	M ,EN
2138	55	81/02/24	2042:50	2044:25	186	216	8690	2		
2139	56	81/02/25	0203:40	0204:30	101	356	10665	2		M
2140	56	81/02/25	0241:05	0241:20	491	604	45724	5	2958	SN
2141	56	81/02/25	0434:10	0434:24	20	100	552	2		
2142	56	81/02/25	0446:55	0447:10	53	135	1475	12		NS,GB
2143	56	81/02/25	0804:45	0805:55	143	234	3768	5		
2144	56	81/02/25	0922:55	0923:25	95	72		2		
2145	56	81/02/25	1400:55	1401:00	38	230	1586	2		
2146	56	81/02/25	2232:10	2232:25	35	100	608	2		
2147	57	81/02/26	0813:55	0814:30	60	60		2		
2148	57	81/02/26	0926:45	0927:05	30	97		2		
2149	57	81/02/26	0934:50	0936:10	110	85		2		
2150	57	81/02/26	1227:15	1227:55	65	100	1563	2		
2151	57	81/02/26	1238:30	1238:50	65	97		2		
2152	57	81/02/26	1404:40	1405:10	65	76		2		
2153	57	81/02/26	1423:10	1425:55	497	22521	9.58E+05	15	2958	M
2154	57	81/02/26	1830:20	1847:05	2810	384	1.10E+05	10	2954	EW
2155	57	81/02/26	1920:15	1921:25	91	200	4090	5		
2156	57	81/02/26	1922:25	1923:00	227	606	19379	10		
2157	57	81/02/26	1930:05	1932:05	192	3728	78299	10		M
2158	57	81/02/26	2006:05	2009:15	1964	215	58114	2		SN
2159	57	81/02/26	2151:25	2151:50	50	84		2		
2160	57	81/02/26	2157:20	2157:40	45	62		2		
2161	57	81/02/26	2228:05	2228:15	37	128	899	2		
2162	57	81/02/26	2327:40	2328:00	95	435	11519	10		
2163	57	81/02/26	2331:30	2332:55	141	817	24594	10	2958	M ,FS
2164	58	81/02/27	0112:50	0114:15	135	105	2163	2		
2165	58	81/02/27	0133:25	0135:10	214	1230	32854	10		
5857	58	81/02/27	0456:33	0456:59	97	79		2		I
2166	58	81/02/27	0728:30	0728:45	30	68		2		
2167	58	81/02/27	1240:15	1240:35	70	66		2		
2168	58	81/02/27	1533:35	1534:40	121	108	3226	5		
2169	58	81/02/27	1547:00	1547:05	15	70		2		
2170	58	81/02/27	1711:55	1712:35	70	81		5		
2171	58	81/02/27	2020:35	2023:20	422	60	2180	2		
2172	58	81/02/27	2312:35	2315:10	1206	114	24778	2		
2173	59	81/02/28	0440:00	0440:20	35	97		2		
2174	59	81/02/28	0629:35	0630:20	85	94		2		
2175	59	81/02/28	0903:55	0904:10	40	80		2		
2176	59	81/02/28	1204:20	1204:40	52	327	3049	5		
12680	59	81/02/28	1616:44	1616:52	20	64	164	6		NS,GB
2177	59	81/02/28	1850:55	1851:25	105	66		2		
2178	60	81/03/01	0059:40	0100:15	110	75		2		
5393	60	81/03/01	1235:29	1235:31	9	260	573	15		I ,NS,GB
2179	61	81/03/02	0046:15	0047:15	210	126	2453	2		
2180	61	81/03/02	0450:50	0451:00	30	61		2		
2181	61	81/03/02	1230:20	1231:30	140	77		2		
2182	61	81/03/02	1325:10	1326:50	160	145	4221	2		M
2183	61	81/03/02	1334:20	1334:25	10	71		5		
2184	61	81/03/02	1518:35	1519:30	195	81		5		
2185	61	81/03/02	1842:00	1849:25	605	100	9799	2	2950	
2186	61	81/03/02	2300:30	2300:45	30	84		2		
2187	62	81/03/03	0656:25	0701:30	1364	133	40977	2		SN
5860	62	81/03/03	1511:17	1511:39	41	74		3		I
2188	63	81/03/04	0117:20	0118:45	115	115	1492	2		
2189	63	81/03/04	0400:20	0400:25	20	88		2		
12681	63	81/03/04	0850:45	0850:48	7	78	58	9		NS,GB
2190	63	81/03/04	1320:00	1320:10	25	80		2		
5861	64	81/03/05	0423:35	0424:09	157	159	3967	2		I
5862	64	81/03/05	0431:11	0431:42	252	70	9818	2		I
5863	64	81/03/05	0709:31	0711:25	820	617	54590	4		I

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	2191	64	81/03/05	1623:55	1630:55	1261	586	1.55E+05	10		AX
	2192	65	81/03/06	0203:45	0205:25	238	783	37239	5		M
	2193	65	81/03/06	0235:15	0236:05	100	156	2322	2		
	2194	65	81/03/06	0241:00	0245:20	517	814	88234	3	2954	
	2195	65	81/03/06	1328:45	1329:05	45	71		2		
	2196	66	81/03/07	0156:35	0157:10	50	101	1204	2		
	5865	66	81/03/07	1020:13	1020:55	67	65		2		I
	2197	66	81/03/07	2248:25	2248:40	65	157	1805	2		
	2198	67	81/03/08	0158:15	0158:50	75	80		2		
	2199	67	81/03/08	0208:20	0209:40	130	84		2		
	2200	67	81/03/08	0838:15	0838:35	60	77		2		
	5866	67	81/03/08	2116:41	2117:29	174	73		2		I
	2202	68	81/03/09	0642:10	0642:15	18	108	280	2		
*	2203	69	81/03/10	0020:35	0021:10	65	478	6228	10		
*	2204	69	81/03/10	0313:00	0314:35	160	139	1920	5		
*	2205	69	81/03/10	0622:05	0623:15	180	182	3860	2		
*	2206	69	81/03/10	0831:30	0832:30	188	328	13826	5		
*	2207	70	81/03/11	1143:15	1144:45	140	175	5037	5		ND
*	2208	70	81/03/11	1150:10	1150:40	90	227	4197	5		
*	2209	71	81/03/12	0134:55	0135:25	50	146	1621	5		
*	2210	72	81/03/13	2057:55	2058:50	120	50		2	2971	
*	2211	73	81/03/14	1042:25	1042:35	165	70		2		SN
*	2212	74	81/03/15	2347:55	2348:20	60	51		2		
*	2213	76	81/03/17	0805:22	0805:25	9	202	462	15		AX
*	2214	78	81/03/19	0919:45	0920:00	30	178	1211	5		
*	2215	78	81/03/19	1238:45	1239:15	60	61		2		
*	2216	78	81/03/19	1330:45	1331:10	80	143	2118	2		
*	2217	79	81/03/20	0536:55	0537:15	85	59		2		
*	2218	79	81/03/20	1955:45	1956:45	75	67		2		
*	2219	80	81/03/21	0029:37	0029:45	28	142	982	2		
*	2220	80	81/03/21	0239:25	0241:35	180	65		2		
*	2221	80	81/03/21	0344:00	0344:15	75	353	4498	5		FS
*	2222	80	81/03/21	2141:15	2142:15	130	170	4109	2		
*	2223	81	81/03/22	0044:05	0044:30	47	885	112	2		
*	2224	81	81/03/22	0204:20	0204:35	77	107	725	2		
*	2225	81	81/03/22	0606:20	0606:50	55	86		2		
*	2226	81	81/03/22	0858:05	0858:10	37	168	820	2		
*	2227	81	81/03/22	1222:25	1222:45	67	353	3902	5		
*	2228	81	81/03/22	1930:20	1930:35	30	59		2		
*	2229	81	81/03/22	1931:20	1931:30	35	243	1352	2		FS
*	2230	81	81/03/22	1949:10	1952:15	260	183	9493	5	2984	
*	5884	81	81/03/22	2143:47	2144:14	90	791	10044	4		I
*	2231	81	81/03/22	2200:20	2200:35	42	1283	9256	5		M ,FS
*	2232	81	81/03/22	2202:00	2202:35	85	199	2173	5		M
*	2233	81	81/03/22	2306:10	2306:35	70	148	1733	5		
*	2234	82	81/03/23	0644:55	0646:30	150	199	5693	5		
*	2235	82	81/03/23	0653:00	0656:00	294	2175	1.11E+05	10		M
*	2236	82	81/03/23	0659:35	0700:00	685	553	4684	15	2984	
*	2237	82	81/03/23	0731:40	0732:15	150	67		2		
*	2238	82	81/03/23	1024:00	1025:15	110	85		5		
*	2239	82	81/03/23	1123:35	1128:05	360	74	5101	2		
*	2240	82	81/03/23	1204:10	1204:20	483	4160	91498	10		
	2241	82	81/03/23	1925:30	1929:40	573	81	7106	2		EW
	2242	82	81/03/23	2114:05	2115:40	370	294	23569	5	2984	EW
	2243	82	81/03/23	2300:25	2300:55	35	82		2		
	2244	83	81/03/24	0154:55	0157:10	850	894	82671	5	2984	M
	2245	83	81/03/24	0717:30	0717:45	105	90		2		
	2246	83	81/03/24	0719:30	0719:45	550	253	4614	5		
	2247	83	81/03/24	0837:50	0838:05	45	63		2		
	2248	83	81/03/24	1209:55	1210:30	185	70		2		
	2249	84	81/03/25	0056:40	0057:10	150	87		2		
	2250	84	81/03/25	0202:00	0202:05	80	82		2		
	2251	84	81/03/25	0204:30	0205:10	100	83		2		
	2252	84	81/03/25	0505:50	0506:50	159	230	10752	2		
	2253	84	81/03/25	0524:05	0525:10	173	115	4302	2		
	2254	84	81/03/25	0844:40	0845:25	160	60		2		
	2255	84	81/03/25	0936:50	0937:10	60	97		2		ES,EW
	2256	84	81/03/25	1025:40	1026:20	65	67		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2257	84	81/03/25	1612:10	1612:25	105	94		2		
2258	84	81/03/25	1921:10	1921:50	85	67		2		
2259	84	81/03/25	2046:00	2046:40	1796	3271	6.97E+06	5	2984	SN
2260	84	81/03/25	2239:40	2240:00	50	83		2		
2261	85	81/03/26	0232:00	0232:25	45	57		2		
6299	85	81/03/26	2133:30	2134:02	104	101	2418	2		I
2262	86	81/03/27	0009:05	0011:35	1466	99	23863	2		
2263	86	81/03/27	0156:45	0158:50	333	101	4536	2		
2264	86	81/03/27	2052:30	2053:10	135	56		2		
2265	87	81/03/28	0004:25	0005:05	105	98		5		
2266	87	81/03/28	1506:20	1506:55	55	109	1113	2		
2267	87	81/03/28	1556:55	1557:20	40	92		2		
2268	87	81/03/28	1720:00	1720:15	35	74		2		
2269	87	81/03/28	1909:15	1909:40	40	90		2		
2270	87	81/03/28	1927:45	1928:20	65	71		2		
2271	87	81/03/28	1931:10	1932:10	160	191	4832	2		
2272	87	81/03/28	2119:30	2120:10	60	77		2		
2273	88	81/03/29	1632:05	1632:50	160	96		2		
2274	88	81/03/29	2208:10	2209:25	195	73		2		
2275	88	81/03/29	2244:35	2244:50	30	81		2		
2276	88	81/03/29	2349:50	2350:30	155	79		2		
2277	89	81/03/30	0009:55	0021:45	1507	496	2.25E+05	10		M ,EN
2278	89	81/03/30	0311:50	0313:00	145	70		2		
2279	89	81/03/30	0653:20	0654:25	185	75		2		
2280	89	81/03/30	2155:30	2200:00	915	244	31987	10		
2281	89	81/03/30	2226:05	2226:20	39	156	969	2		
2282	90	81/03/31	0425:55	0425:55	193	135	2880	5		SA
2283	90	81/03/31	0436:45	0436:45	145	63		2		
2284	90	81/03/31	0442:40	0443:25	160	73		2		
2285	90	81/03/31	0446:55	0447:20	40	68		2		
2286	90	81/03/31	0640:25	0640:50	75	76		2		
2287	90	81/03/31	1300:55	1301:55	164	1905	25782	10		M
2288	90	81/03/31	1528:20	1528:50	140	66		2		
2289	90	81/03/31	1607:50	1608:25	65	74		2		
2290	90	81/03/31	2052:40	2053:00	125	68		2		
2291	90	81/03/31	2149:35	2150:15	75	285	6499	5		
2292	90	81/03/31	2233:45	2234:40	155	75		5		
2293	91	81/04/01	0105:40	0146:04	3140	12460	7.20E+06	14	2999	EN
2294	91	81/04/01	1242:57	1244:39	180	85		2		
2295	91	81/04/01	1348:45	1418:50	3330	205	81263	7		M ,EN,IS
2296	91	81/04/01	2004:05	2004:55	95	62		2		
2297	91	81/04/01	2143:25	2143:55	286	136	8348	5		AX
2298	92	81/04/02	0805:15	0805:30	25	85		2		
2299	92	81/04/02	1059:05	1106:40	985	14865	2.55E+06	12	2999	M
2300	92	81/04/02	1420:15	1421:25	96	119	1372	2		
6755	92	81/04/02	2134:19	2136:27	815	125	11206	4		
2301	93	81/04/03	0126:00	0127:00	227	126	3404	2		
2302	93	81/04/03	0755:10	0755:40	60	64		2		
2303	93	81/04/03	0911:35	0919:25	1895	371	91207	5		EN
2304	93	81/04/03	1640:55	1648:40	715	84	5515	2		
2305	93	81/04/03	1659:10	1659:25	145	69		2		
2306	93	81/04/03	1832:30	1839:40	1135	204	23967	10		
2307	93	81/04/03	2021:20	2021:45	136	147	5843	2		
2308	93	81/04/03	2040:50	2041:15	195	98		2		
2309	93	81/04/03	2323:55	2331:45	2250	85	22619	2		
2310	94	81/04/04	0223:40	0225:40	157	190	2565	2		
2311	94	81/04/04	0228:30	0231:40	296	377	12001	5		
2312	94	81/04/04	0244:55	0245:20	65	96		2		
2313	94	81/04/04	0622:50	0623:30	120	59		2		
2314	94	81/04/04	1643:50	1645:05	171	208	6804	2		
2315	94	81/04/04	1946:55	1947:00	180	91		2		SN
2316	94	81/04/04	2122:00	2123:40	563	308	1.10E+05	5		
2317	94	81/04/04	2159:15	2203:00	672	236	24995	5	3027	
2318	94	81/04/04	2311:00	2312:50	248	106	3406	2		
2319	94	81/04/04	2345:25	2346:55	210	70		2		
2320	95	81/04/05	0032:15	0056:40	1705	88	17225	2		
2321	95	81/04/05	0256:10	0256:10	26	320	1194	5		SG,DG
2322	95	81/04/05	1415:15	1415:50	65	70		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2323	95	81/04/05	1803:55	1804:30	195	56		2		
2324	95	81/04/05	1853:20	1854:15	90	69		2		
2325	95	81/04/05	1857:25	1901:00	327	85	7692	2		
2326	95	81/04/05	2116:10	2117:30	290	81	4956	5		
2327	95	81/04/05	2140:35	2142:30	195	84		2		
2328	95	81/04/05	2145:55	2146:35	65	58		2		
2329	96	81/04/06	0706:15	0708:45	195	52		2		
2330	96	81/04/06	0710:20	0712:35	160	51		2		
2331	96	81/04/06	0723:35	0724:35	149	114	2015	2		
2332	96	81/04/06	0848:30	0853:45	480	89	4994	2		
2333	96	81/04/06	2202:30	2203:40	190	64		2		
2334	96	81/04/06	2323:15	2323:25	45	59		2		
2335	97	81/04/07	0103:15	0103:45	98	746	20953	5		M
2336	97	81/04/07	0115:10	0118:25	234	968	67952	5		EN
2337	97	81/04/07	0422:30	0426:30	461	160	15815	2		M ,EN
2338	97	81/04/07	1825:45	1826:30	89	297	3577	5		
2339	97	81/04/07	1834:10	1836:20	559	110	13171	2		
2340	97	81/04/07	1952:15	1953:10	165	85		2		
2341	97	81/04/07	2012:50	2013:25	50	96		2		
2342	97	81/04/07	2015:00	2015:30	118	166	1800	2		
2343	98	81/04/08	0041:10	0044:40	258	852	12568	5		
12682	98	81/04/08	0048:57	0048:59	4	101	69	11		NS,GB
2344	98	81/04/08	0541:35	0543:15	154	166	2581	2		M
2345	98	81/04/08	0841:50	0843:30	152	153	3839	2		
2346	98	81/04/08	1026:40	1028:00	118	365	2906	5		FS
2347	98	81/04/08	1258:00	1259:10	109	1208	13661	10		SN
2348	98	81/04/08	1624:10	1637:00	2644	417	2.32E+05	5	3025	M
2349	98	81/04/08	1759:45	1804:45	1098	88	7133	2		
2350	98	81/04/08	1836:20	1836:40	65	95		2		
2351	98	81/04/08	1926:55	1927:35	75	63		2		
2352	98	81/04/08	1956:45	2005:10	555	71	2732	2		
2353	98	81/04/08	2238:25	2238:45	34	286	2392	5		
2354	98	81/04/08	2317:45	2319:30	190	99		2		
2355	98	81/04/08	2328:15	2328:50	140	174	8482	2		
2356	99	81/04/09	0353:35	0354:00	110	89		2		
2357	99	81/04/09	0359:40	0400:05	40	76		2		
2358	99	81/04/09	1004:45	1005:45	70	98		2		
2359	99	81/04/09	1322:10	1322:20	25	73		2		
2360	99	81/04/09	1443:40	1445:10	197	85		2		
2361	99	81/04/09	1650:45	1650:55	60	72		2		
2362	99	81/04/09	1655:45	1700:10	360	333	44367	2		
2363	99	81/04/09	1821:55	1832:20	913	355	65353	10		M
2364	99	81/04/09	2118:55	2121:00	195	60		2		
2365	99	81/04/09	2145:00	2147:35	190	67		2		
2366	99	81/04/09	2255:45	2257:45	160	54		2		
2367	100	81/04/10	0346:15	0346:30	20	71		2		
2368	100	81/04/10	0515:35	0517:05	185	105	3213	2		
2369	100	81/04/10	0527:40	0532:15	820	79	3828	2		
2370	100	81/04/10	0656:30	0657:10	74	149	1501	5		
2371	100	81/04/10	1108:50	1109:15	1825	2098	1.20E+05	5	3030	SN,ES
2372	100	81/04/10	1459:10	1500:20	150	91		2		
2373	100	81/04/10	1633:40	1651:15	1360	11879	3.63E+06	15	3025	M
2374	100	81/04/10	1730:40	1739:55	1390	98	12018	5		
2375	100	81/04/10	1824:30	1825:30	382	1221	49531	10		
2376	100	81/04/10	1906:40	1912:10	1555	161	26980	2	3035	
2377	100	81/04/10	2226:55	2227:05	25	84		2		
2378	100	81/04/10	2255:30	2256:35	150	810	13604	5		M
2379	101	81/04/11	0030:15	0031:15	290	120	3181	2		
2380	101	81/04/11	0457:08	0500:50	358	81	2640	2	3025	
2381	101	81/04/11	0537:40	0538:25	120	74		2		
2382	101	81/04/11	0828:10	0829:10	125	97		2		
2383	101	81/04/11	0950:55	0951:25	63	120	1050	2		
2384	101	81/04/11	1009:20	1009:30	20	72		2		
2385	101	81/04/11	1014:40	1017:35	355	432	9740	5		
2386	101	81/04/11	1150:55	1151:30	55	93		2		
2387	101	81/04/11	1302:15	1302:40	40	260	1964	5		
2388	101	81/04/11	1302:55	1303:15	49	212	1744	2		
2389	101	81/04/11	1303:45	1304:20	80	97		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2390	101	81/04/11	1333:25	1334:55	261	378	16303	5	3038	
2391	101	81/04/11	1629:40	1630:15	55	82		2		
2392	101	81/04/11	1644:15	1644:40	138	69		2		
6305	101	81/04/11	2033:23	2033:47	73	91		5		I
2393	101	81/04/11	2259:45	2300:15	120	60		2		EW
2394	101	81/04/11	2302:40	2303:00	150	76		2		EW
2395	101	81/04/11	2349:55	2351:15	150	75		2		
2396	102	81/04/12	0000:15	0001:10	209	280	11417	2		
2397	102	81/04/12	0009:05	0009:25	85	80		2		
2398	102	81/04/12	0128:00	0128:05	17	102	410	2		
2399	102	81/04/12	0131:10	0134:40	398	1043	46990	5	3035	
2400	102	81/04/12	0143:40	0147:50	313	259	5382	5		
2401	102	81/04/12	0155:20	0155:55	60	77		2		
2402	102	81/04/12	0157:20	0157:50	125	72		2		
2403	102	81/04/12	0206:00	0207:20	145	99		2		EW
2404	102	81/04/12	0303:05	0305:40	290	152	3507	2		SN
2405	102	81/04/12	0310:20	0311:00	208	219	6880	2		
2406	102	81/04/12	0314:10	0314:40	120	822	12984	5	3035	
2407	102	81/04/12	0649:35	0651:05	150	81		2		EW
6306	102	81/04/12	0830:43	0830:56	67	60		2		I
6307	102	81/04/12	0835:48	0835:57	75	63		2		I
6308	102	81/04/12	1016:26	1016:49	93	55		2		I
2408	102	81/04/12	1242:05	1246:35	506	182	18732	2		
2409	102	81/04/12	1307:40	1307:50	25	71		2		
2410	102	81/04/12	1450:20	1450:55	120	65		2		EW
2411	102	81/04/12	1602:30	1606:45	330	1193	21649	10		
6310	102	81/04/12	1730:42	1731:26	88	60		2		I
6311	102	81/04/12	1810:21	1810:57	76	73		2		I
6312	102	81/04/12	1814:16	1814:41	62	50		2		I
6313	102	81/04/12	1944:32	1945:07	523	62	4591	2		I
6314	102	81/04/12	2104:00	2107:03	871	69	7170	3		I
2412	102	81/04/12	2215:15	2216:20	135	78		2		
2413	102	81/04/12	2226:30	2227:25	362	1164	59087	10		M
2414	102	81/04/12	2303:15	2304:10	65	90		2		
2415	103	81/04/13	0202:20	0202:40	65	106	1566	2		
2416	103	81/04/13	0207:55	0208:10	73	104	1962	2		
6316	103	81/04/13	0329:08	0338:41	961	82	10389	3		I
6318	103	81/04/13	0636:59	0637:15	30	67		2		I
2417	103	81/04/13	0754:50	0755:45	175	66		2		
6320	103	81/04/13	0928:55	0929:25	44	57		2		I
6321	103	81/04/13	0930:10	0930:44	137	99		2		I
6322	103	81/04/13	0934:40	0934:52	39	68		2		I
6323	103	81/04/13	0938:25	0938:35	42	66		2		I
6324	103	81/04/13	0951:23	0951:54	117	107	1619	2		I
6325	103	81/04/13	0959:32	0959:39	18	75		2		I
6326	103	81/04/13	1002:17	1002:35	38	66		2		I
6327	103	81/04/13	1004:03	1004:23	40	77		2		I
6328	103	81/04/13	1005:19	1008:20	494	211	7598	3		M ,I
2418	103	81/04/13	1135:00	1135:20	45	62		2		
6330	103	81/04/13	1226:00	1226:39	69	80		2		I
6331	103	81/04/13	1242:42	1243:01	57	60		2		I
6332	103	81/04/13	1259:40	1300:09	62	91		2		I
6333	103	81/04/13	1309:12	1309:25	102	106	1248	2		I
2419	103	81/04/13	1427:05	1431:10	363	126	3681	5		
2420	103	81/04/13	1445:35	1445:50	70	78		3		
2421	103	81/04/13	1729:15	1729:25	20	90		2		
2422	104	81/04/14	0646:35	0646:50	40	68		2		
6317	104	81/04/14	0920:54	0921:09	39	91		2		I
6329	104	81/04/14	0948:57	0949:14	38	83		2		I
2423	104	81/04/14	1240:00	1240:50	187	84		2		
2424	104	81/04/14	1533:45	1537:45	333	95	1465	2		
2425	104	81/04/14	1753:40	1753:50	20	58		2		
2426	104	81/04/14	1841:10	1842:10	150	63		2		
2427	104	81/04/14	1848:40	1849:35	258	80	3933	2		
2428	104	81/04/14	1908:00	1910:10	165	59		2		
2429	104	81/04/14	2035:15	2035:45	65	69		2		
2430	104	81/04/14	2037:50	2037:59	30	57		3		
2431	104	81/04/14	2042:20	2042:35	90	95		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2432	104	81/04/14	2047:55	2050:25	264	749	11714	9		
2433	104	81/04/14	2056:00	2058:40	252	87	4754	6		
2434	104	81/04/14	2216:35	2218:40	242	121	12707	2		
2435	104	81/04/14	2327:55	2340:00	3306	1794	7.67E+05	12	3049	M
2436	105	81/04/15	0114:55	0116:10	215	100	3803	2		
2437	105	81/04/15	0325:25	0325:45	40	61		2		
2438	105	81/04/15	0430:25	0430:50	75	71		2		
2439	105	81/04/15	0559:55	0601:20	150	743	9044	7		
2440	105	81/04/15	0636:55	0638:40	180	90		2		
2441	105	81/04/15	0641:25	0643:45	417	5290	1.27E+05	10	3027	
2442	105	81/04/15	0805:10	0806:20	115	89		2		
2443	105	81/04/15	1212:50	1213:35	124	104	1940	2		
2444	105	81/04/15	1233:00	1235:15	190	70		2		
2445	105	81/04/15	1258:50	1259:15	36	240	1667	4		
2446	105	81/04/15	1303:45	1304:15	90	90		3		
2447	105	81/04/15	1354:00	1354:30	60	62		2		
6617	105	81/04/15	1411:23	1411:26	6	61		2		
2448	105	81/04/15	1522:40	1527:50	622	143	9522	5	3022	
2449	105	81/04/15	1705:30	1707:45	420	406	13147	7		
2450	105	81/04/15	1856:10	1856:15	40	59		2		
2451	105	81/04/15	1918:45	1919:25	83	478	4312	11		
2452	105	81/04/15	1923:00	1923:25	35	78		2		
2453	105	81/04/15	2022:05	2022:20	35	64		2		
2454	105	81/04/15	2331:20	2331:45	100	63		2		
2455	106	81/04/16	0113:35	0114:30	551	247	20484	4	3035	
2456	106	81/04/16	0255:25	0256:00	73	350	6187	7		
2457	106	81/04/16	0316:55	0317:25	131	111	1042	2		
2458	106	81/04/16	0411:50	0412:10	30	72		2		
2459	106	81/04/16	0502:00	0503:55	145	63		2		
2460	106	81/04/16	1534:50	1535:20	60	64		2		
2461	106	81/04/16	2356:00	2356:20	45	61		2		
2462	107	81/04/17	0408:05	0409:50	223	150	3909	3		
6337	107	81/04/17	0859:28	0859:56	80	65		2		I
6338	107	81/04/17	0931:09	0931:36	47	83		2		I
6339	107	81/04/17	1214:43	1218:44	2619	77	25043	2	3049	I
2464	107	81/04/17	1423:00	1424:15	277	1325	1.14E+05	6		
2465	107	81/04/17	1648:30	1648:55	55	58		2		
2466	107	81/04/17	1829:05	1830:40	185	73		2		
2467	107	81/04/17	1834:30	1834:45	60	110	1028	7		
2468	107	81/04/17	2310:00	2310:30	85	64		2		
2469	108	81/04/18	0130:55	0136:10	696	1117	1.60E+05	5	3038	M ,EN
2470	108	81/04/18	0303:35	0304:00	84	134	1863	3		
6342	108	81/04/18	0439:49	0440:20	64	70		2		I
6343	108	81/04/18	0547:32	0547:48	37	108	621	2		I
6344	108	81/04/18	0549:28	0549:37	89	225	1941	2		I
6345	108	81/04/18	0559:45	0604:34	1540	377	1.11E+05	2	3038	I
6346	108	81/04/18	0710:47	0717:57	1163	88	16499	2	3038	I
2471	108	81/04/18	1030:00	1030:25	55	74		2		
2472	108	81/04/18	1048:45	1051:25	1185	4160	8.33E+05	8		M
2473	108	81/04/18	1701:45	1703:20	228	70	2902	2		
2474	108	81/04/18	1720:10	1721:45	130	59		2		
2475	109	81/04/19	0119:45	0119:50	40	76		2		
2476	109	81/04/19	0246:00	0246:20	40	74		2		
2477	109	81/04/19	0859:10	0900:25	85	74		2		
2478	109	81/04/19	0914:25	0914:35	35	64		2		
2479	109	81/04/19	1036:05	1036:35	50	85		2		
2480	109	81/04/19	1050:20	1050:45	55	65		2		
2481	109	81/04/19	1154:00	1154:30	45	66		2		
2482	109	81/04/19	1241:40	1242:20	67	400	3191	5		
2483	109	81/04/19	1411:10	1411:55	175	66		2		
2484	109	81/04/19	1515:55	1517:40	263	90	4006	2		
2485	109	81/04/19	1534:30	1538:15	401	1028	27438	6	3038	
2486	109	81/04/19	1543:05	1544:10	95	164	3527	3		
2487	109	81/04/19	1652:00	1653:15	145	76		3		
2488	109	81/04/19	1710:20	1711:40	497	192	12939	3	3038	
2489	109	81/04/19	1719:15	1719:50	70	66		2		
2490	109	81/04/19	2316:15	2316:55	100	84		2		
2491	110	81/04/20	0229:00	0229:40	110	119	2418	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2492	110	81/04/20	0231:35	0232:05	130	75		2		
2493	110	81/04/20	0343:25	0344:00	173	117	1767	3		
2494	110	81/04/20	1057:15	1058:35	286	977	63032	7	3038	FS
2495	110	81/04/20	1624:40	1629:20	1189	259	42600	3		SN
2496	110	81/04/20	2118:05	2118:40	60	95		2		
2497	111	81/04/21	0907:50	0908:25	63	267	4264	3		
2498	111	81/04/21	1337:10	1337:25	60	98		2		
6352	112	81/04/22	0228:49	0229:05	57	65		2		I
6353	112	81/04/22	0713:13	0714:17	115	124	2174	2		I
2499	112	81/04/22	1341:50	1342:25	47	109	751	3		
2500	112	81/04/22	1513:40	1513:55	35	68		2		
2501	112	81/04/22	1806:35	1818:25	1081	147	19671	2		
2502	112	81/04/22	1945:40	1946:50	80	72		2		
2503	112	81/04/22	2001:50	2002:55	115	207	4797	3	3049	M ,ES
2504	112	81/04/22	2257:50	2300:15	238	209	12509	3		
2505	113	81/04/23	0008:15	0008:30	559	99	5182	2		
2506	113	81/04/23	0029:45	0032:15	725	305	38377	6		M
2507	113	81/04/23	0231:35	0232:35	253	120	5726	2		
2508	113	81/04/23	0706:20	0707:10	105	61		2		
2509	113	81/04/23	1009:48	1010:30	61	71		2		
2510	113	81/04/23	1142:05	1142:30	35	88		2		
2511	113	81/04/23	1304:15	1305:00	110	116	6035	2		
2512	113	81/04/23	1616:25	1617:50	191	105	3763	6		
2513	113	81/04/23	1637:10	1638:00	90	65		2		
2514	113	81/04/23	1741:20	1741:55	85	85		2		
2515	113	81/04/23	1933:25	1933:45	100	95		2		
2516	113	81/04/23	2053:55	2054:45	118	115	3116	2		
2517	114	81/04/24	0023:10	0023:40	70	92		2		
2518	114	81/04/24	0041:50	0045:50	549	508	29095	4		
2519	114	81/04/24	0054:05	0054:45	85	82		2		
2520	114	81/04/24	0135:50	0143:15	3342	11690	4.46E+06	5	3049	M ,SN
2521	114	81/04/24	0325:45	0326:55	768	74	2754	2		
2522	114	81/04/24	0459:50	0500:15	69	168	2054	2		
2523	114	81/04/24	0502:40	0506:35	324	142	1966	2		
2524	114	81/04/24	0839:45	0839:55	15	74		2		
2525	114	81/04/24	0844:10	0853:40	836	314	75228	3		M ,EN
6354	114	81/04/24	0934:52	0935:10	61	100	754	2		I
6355	114	81/04/24	0946:13	0946:24	42	79		2		I
6356	114	81/04/24	0948:34	0948:45	18	68		2		I
6357	114	81/04/24	0952:42	0952:59	98	64		2		I
6358	114	81/04/24	0957:44	0958:34	98	77		2		I
12683	114	81/04/24	0958:35	0958:58	47	35				NS,GB
6359	114	81/04/24	1000:37	1001:01	27	78		2		I
2526	114	81/04/24	1110:10	1110:15	20	70		2		
2527	114	81/04/24	1112:35	1112:50	53	128	1377	2		
2528	114	81/04/24	1116:40	1117:55	120	92		2		
2529	114	81/04/24	1120:15	1120:25	40	62		2		
2530	114	81/04/24	1123:25	1124:30	121	110	2324	2		
2531	114	81/04/24	1303:00	1303:25	50	74		2		
2532	114	81/04/24	1322:50	1323:05	105	99		2		
2533	114	81/04/24	1324:35	1325:35	60	99		3		
2534	114	81/04/24	1334:10	1334:30	80	68		2		
4397	114	81/04/24	1420:45	1434:55	3428	1794	1.07E+06	14		M ,I ,SN,IS
2535	114	81/04/24	1620:25	1620:35	20	77		2		
2536	114	81/04/24	1740:40	1741:30	90	65		2		
2537	114	81/04/24	2103:45	2103:55	25	60		2		
2538	114	81/04/24	2112:05	2112:50	182	250	6197	3		
2539	114	81/04/24	2116:05	2116:15	20	81		2		
2540	114	81/04/24	2226:15	2226:25	25	71		2		
2541	114	81/04/24	2228:20	2228:55	138	128	1742	2		
2542	115	81/04/25	0019:25	0019:35	20	361	1337	3		
2543	115	81/04/25	0030:20	0030:40	60	140	1572	2		
2544	115	81/04/25	0032:00	0033:40	130	82		2		
2545	115	81/04/25	0046:40	0046:55	45	543	2516	5		
2546	115	81/04/25	0154:40	0154:50	40	100	523	2		
2547	115	81/04/25	0209:05	0209:30	53	113	727	2		
2548	115	81/04/25	0221:00	0221:10	24	195	806	4		
2549	115	81/04/25	0510:35	0511:05	1008	845	14729	4	3049	M

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2550	115	81/04/25	0527:55	0528:40	96	535	2125	3		
2551	115	81/04/25	0530:10	0531:35	180	298	2205	3		
2552	115	81/04/25	0539:25	0540:00	86	103	5624	5		
2553	115	81/04/25	0628:30	0628:45	77	150	1616	2		
2554	115	81/04/25	0653:10	0654:40	122	122	1476	2		
2555	115	81/04/25	0655:20	0656:15	100	106	1090	2		
6360	115	81/04/25	0756:39	0757:12	127	73		2		I
6361	115	81/04/25	0821:34	0823:37	178	74		4		I
2556	115	81/04/25	0951:10	0952:00	180	86		2		
2557	115	81/04/25	1001:05	1001:30	95	69		2		
2558	115	81/04/25	1026:45	1026:55	40	66		2		
6362	115	81/04/25	1145:33	1145:47	39	84		2		I
6364	115	81/04/25	1237:57	1238:31	121	100	1852	2		I
6365	115	81/04/25	1246:22	1246:55	243	67	1983	2		I
6366	115	81/04/25	1324:09	1325:13	152	146	3425	2		I
2559	115	81/04/25	1548:50	1553:10	1279	366	1.22E+05	3	3049	SN
2560	115	81/04/25	1739:30	1740:30	190	146	3648	3		
2561	115	81/04/25	1749:40	1749:50	30	73		2		
2562	115	81/04/25	1751:25	1753:10	180	74		2		
2563	115	81/04/25	2038:55	2039:20	170	74		2		EW
2564	115	81/04/25	2043:10	2044:20	130	82		2		
2565	115	81/04/25	2217:15	2218:10	100	90		2		
2566	115	81/04/25	2234:35	2235:10	78	111	988	2		
2567	115	81/04/25	2237:20	2238:50	155	86		2		
2568	116	81/04/26	0001:55	0003:40	175	94		2		
2569	116	81/04/26	0004:55	0006:00	100	94		2		
2570	116	81/04/26	0015:05	0017:05	475	229	22909	4		
2571	116	81/04/26	0028:15	0028:30	45	95		2		
2572	116	81/04/26	0144:35	0146:40	561	162	13829	2		
2573	116	81/04/26	0311:30	0313:10	263	370	17832	5		
2574	116	81/04/26	0610:45	0615:30	711	560	42838	2	3049	
2575	116	81/04/26	0631:40	0632:50	228	471	13346	4		
2576	116	81/04/26	0642:30	0643:00	160	61		2		
2577	116	81/04/26	0938:10	0939:20	105	63		2		
2578	116	81/04/26	1009:55	1010:05	20	86		2		
2579	116	81/04/26	1054:50	1148:10	3629	7823	3.62E+06	15		M ,EN
2580	116	81/04/26	1312:30	1318:40	640	70	4150	5		
2581	116	81/04/26	1415:15	1415:40	155	94		4		
2582	116	81/04/26	1431:40	1432:25	115	73		2		
2583	116	81/04/26	1552:10	1553:15	105	69		2		
2584	116	81/04/26	1735:55	1739:20	981	4922	4.13E+05	9		M ,EN
2585	116	81/04/26	1917:25	1918:20	170	87		2		
2586	116	81/04/26	1923:25	1924:25	110	76		2		
2587	116	81/04/26	2101:50	2102:05	60	76		2		
2588	117	81/04/27	0513:25	0513:50	50	96		2		
2589	117	81/04/27	0740:55	0812:55	9052	56177	4.85E+07	15		M
2590	117	81/04/27	1404:15	1404:55	105	76		2		
2591	117	81/04/27	1858:15	1858:40	95	97		2		
2592	118	81/04/28	0500:20	0500:30	50	64		14		
2593	118	81/04/28	2148:25	2149:10	2981	691	5.12E+05	3		M ,SN
2594	119	81/04/29	0728:45	0729:25	75	76		2		
2595	119	81/04/29	0941:55	0942:05	30	76		2		
2596	120	81/04/30	0302:00	0305:25	1559	123	34244	4		
2597	120	81/04/30	1109:00	1109:30	50	82		2		
6367	120	81/04/30	1219:08	1220:47	164	56		2		I
2598	121	81/05/01	0110:25	0110:45	46	164	1086	2		
2599	121	81/05/01	2136:50	2137:35	153	325	14219	4		
2600	122	81/05/02	0350:15	0350:30	20	75		2		
2601	123	81/05/03	0030:00	0030:20	178	64	1131	2		
2602	123	81/05/03	1941:10	1941:40	272	188	6021	4		EW
2603	123	81/05/03	2124:45	2127:15	256	125	4028	2		EW
2604	124	81/05/04	0836:40	0838:45	711	19517	1.17E+06	14	3080	M
2605	124	81/05/04	1935:15	1935:35	90	70		2		
2606	125	81/05/05	0200:25	0200:45	105	61		2		
2607	125	81/05/05	1050:25	1050:35	30	56		2		
2608	125	81/05/05	2255:00	2258:00	1231	852	1.77E+05	4	3080	M
2609	126	81/05/06	0818:40	0819:00	50	69		2		
2610	127	81/05/07	0201:35	0202:25	90	76		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2611	127	81/05/07	0540:40	0540:55	40	58		2		
2612	127	81/05/07	0625:05	0625:40	85	53		2		
2613	127	81/05/07	0711:15	0712:30	90	66		2		
2614	127	81/05/07	0826:00	0826:25	50	77		2		
2615	127	81/05/07	0835:05	0835:25	40	76		2		
2616	127	81/05/07	1427:40	1428:10	130	70		2		
2617	127	81/05/07	1742:40	1743:20	95	89		2		
2618	127	81/05/07	1746:45	1747:20	85	76		2		
6379	127	81/05/07	2100:38	2101:14	64	93		2		I
2619	128	81/05/08	0007:35	0007:45	50	65		2		
2620	128	81/05/08	0217:55	0218:20	125	81		3		
2621	128	81/05/08	0335:00	0335:15	55	64		2		
2622	128	81/05/08	0542:15	0542:45	49	517	6193	7		
2623	128	81/05/08	1027:05	1027:30	50	68		2		
2624	128	81/05/08	1333:10	1334:10	135	91		2		
2625	128	81/05/08	1738:30	1739:05	56	220	2312	2		
2626	128	81/05/08	1928:35	1928:35	160	94		2		
2627	128	81/05/08	2057:20	2058:25	140	71		2		
2628	128	81/05/08	2208:55	2233:25	5700	3271	1.65E+06	10	3099	M ,IN
2629	129	81/05/09	0157:45	0158:30	119	441	12527	5		
2730	129	81/05/09	1155:35	1156:15	60	82		5		
2630	129	81/05/09	1234:25	1235:40	200	82		2		
2631	129	81/05/09	1325:25	1325:35	20	95		2		
2733	129	81/05/09	1555:40	1557:15	299	169	18160	10		
2632	129	81/05/09	1637:05	1638:55	265	221	14871	2		
2633	129	81/05/09	1718:05	1719:25	155	83		2		
2634	129	81/05/09	2204:35	2205:05	127	469	13465	5		
2635	129	81/05/09	2207:40	2208:50	325	367	21455	2	3099	
2636	129	81/05/09	2227:05	2227:35	70	100	1924	2		
2637	129	81/05/09	2253:20	2305:30	995	243	18612	2	3080	
2638	130	81/05/10	0129:15	0131:30	237	138	7252	2		
2639	130	81/05/10	0150:50	0151:20	145	81		2		
2640	130	81/05/10	0501:50	0504:30	989	392	50972	5	3099	
2641	130	81/05/10	0610:05	0610:20	30	59		2		
2642	130	81/05/10	1224:40	1228:45	3940	445	1.61E+05	15		M ,SN,IS
2643	130	81/05/10	1950:50	1951:05	50	80		2		
2644	130	81/05/10	2050:45	2051:10	35	74		2		
2645	130	81/05/10	2124:10	2124:30	50	85		2		
2646	131	81/05/11	0013:40	0014:10	103	244	2967	5		
2647	131	81/05/11	0136:15	0136:35	60	169	1397	2		
2648	131	81/05/11	0317:15	0317:45	45	75		2		
2649	131	81/05/11	0330:55	0332:05	160	158	4294	2		
2650	131	81/05/11	0447:45	0448:20	50	71		2		
2651	131	81/05/11	0521:00	0521:40	65	91		2		
2652	131	81/05/11	0603:55	0613:30	1227	608	1.99E+05	10		M
2653	131	81/05/11	1403:30	1403:55	145	84	1786	2		
2654	131	81/05/11	1449:35	1449:55	105	93		2		
2655	131	81/05/11	1532:25	1533:15	88	132	1463	2		
2656	131	81/05/11	1534:55	1535:05	40	80		2		
2657	131	81/05/11	2039:15	2039:25	50	61		2		
2658	131	81/05/11	2252:55	2253:30	85	56		2		
2659	131	81/05/11	2339:15	2339:35	113	200	3169	5		
2660	132	81/05/12	0504:15	0505:15	80	65		2		
2661	132	81/05/12	1835:50	1836:00	20	49		2		
2662	133	81/05/13	0406:45	0415:30	7205	5418	3.07E+06	15	3106	M ,SN,IN
2663	133	81/05/13	1443:45	1444:00	35	212	1948	3		EN
2664	133	81/05/13	1842:00	1842:10	29	114	453	2		
2665	133	81/05/13	2324:15	2325:00	171	162	59327	2		
2666	134	81/05/14	0314:15	0315:25	314	3432	1.20E+05	9	3099	
2667	134	81/05/14	0631:00	0631:25	52	138	1093	2		
2668	134	81/05/14	1421:35	1422:15	202	155	2707	2		
2669	135	81/05/15	0414:15	0416:00	195	67		2		
2670	135	81/05/15	0544:45	0544:45	303	215	8691	9		SN
2671	135	81/05/15	0620:55	0621:25	61	112	718	5		
2672	135	81/05/15	0735:40	0739:00	615	118	4644	2		
2673	135	81/05/15	0757:45	0758:40	207	103	3316	2		
2674	135	81/05/15	1815:30	1815:35	20	50		2		
2675	135	81/05/15	1829:30	1830:55	170	100	2984	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2676	135	81/05/15	1853:20	1854:40	142	187	5481	2		
2677	135	81/05/15	2135:15	2136:15	195	95		7		AX
2678	135	81/05/15	2220:00	2220:45	120	67		2		
2679	136	81/05/16	0036:05	0036:30	90	64		2		SN
2680	136	81/05/16	0211:30	0212:05	65	61		2		
2681	136	81/05/16	0240:50	0241:20	45	79		2		
2682	136	81/05/16	0442:20	0442:45	45	69		2		
2683	136	81/05/16	0551:40	0552:10	75	160	1314	3		
6384	136	81/05/16	0858:24	0900:02	2040	972	3.77E+05	5	3106	M ,I ,SA
2684	136	81/05/16	2344:55	2346:10	145	86		5		
2685	137	81/05/17	2027:35	2032:30	316	98	2090	2		
2686	137	81/05/17	2126:15	2133:10	629	111	8623	5		
2687	137	81/05/17	2335:30	2337:45	241	93	4262	5		
2688	138	81/05/18	1449:55	1451:30	277	87	5505	2		M
2689	138	81/05/18	1623:20	1630:05	747	62	8790	2		ES
2690	138	81/05/18	1941:30	1943:20	230	442	18232	4		
2691	138	81/05/18	2243:20	2245:35	712	116	18723	4		AX
2692	140	81/05/20	0102:55	0103:50	145	73		4		
2693	140	81/05/20	0145:15	0145:45	180	65		2		
2694	140	81/05/20	1429:55	1437:20	490	136	14460	3		AX
2695	140	81/05/20	2131:15	2132:45	200	96		6		
2696	140	81/05/20	2233:25	2234:10	67	76		2		
2697	140	81/05/20	2308:40	2311:05	425	125	8217	4		
2698	141	81/05/21	0142:50	0143:45	165	86		2		
6390	141	81/05/21	0629:10	0631:17	334	736	32144	5		M ,I
6389	141	81/05/21	2123:36	2124:41	152	67		3		I
2699	141	81/05/21	2220:25	2226:15	457	288	31022	10		
2700	141	81/05/21	2300:30	2301:35	235	131	9122	5		
6391	143	81/05/23	0321:19	0324:14	432	113	6606	2		I
2702	143	81/05/23	2105:25	2106:10	190	92		5		
2701	143	81/05/23	2112:35	2113:30	260	98	5331	5		
2703	144	81/05/24	0023:50	0025:55	538	94	9087	5		
2704	144	81/05/24	0432:25	0437:05	587	106	9504	2	3112	
2705	144	81/05/24	0504:40	0506:20	160	95		2		
2706	144	81/05/24	1120:30	1120:50	60	147	1045	5		
2707	144	81/05/24	2056:30	2058:35	292	72	2945	2		
2708	144	81/05/24	2215:04	2215:50	100	71		2		
2709	145	81/05/25	0427:15	0429:05	161	128	2764	2		
2710	145	81/05/25	1704:55	1705:05	30	85		2		
2711	145	81/05/25	1906:25	1907:15	170	77		6		
2712	145	81/05/25	2044:05	2044:40	120	74		5		
2713	145	81/05/25	2049:10	2049:50	190	69		2		
2714	145	81/05/25	2151:35	2152:15	85	95		5		ND
2715	145	81/05/25	2222:10	2232:35	770	108	12196	6		
2716	146	81/05/26	0151:30	0152:45	135	71		2		
2717	147	81/05/27	0751:20	0752:00	55	92		2		
2718	147	81/05/27	1337:00	1339:00	216	116	2950	2		
2719	147	81/05/27	1730:25	1730:45	140	61		2		
2720	147	81/05/27	2209:30	2212:00	501	120	17592	5		AX
2721	148	81/05/28	0605:35	0606:05	85	212	2259	4		
2722	151	81/05/31	1928:20	1928:30	17	55		2		
2723	155	81/06/04	1600:40	1602:20	195	81		3		
2724	156	81/06/05	0201:10	0201:20	30	99		15		AX
12684	156	81/06/05	0513:04	0513:27	46	82	267	10		NS,GB
6399	157	81/06/06	1404:53	1405:03	152	78		2		I
2725	158	81/06/07	0258:00	0258:45	117	129	2644	2		
2726	158	81/06/07	1358:15	1359:15	195	90		10		
2727	159	81/06/08	0305:25	0306:25	165	91		2		
2728	159	81/06/08	0750:50	0752:05	303	390	18597	5		
2729	159	81/06/08	0810:30	0810:55	56	99		2		
2731	160	81/06/09	1336:00	1336:45	474	85	5320	5		
2732	160	81/06/09	1516:15	1517:15	180	91		2		
2734	160	81/06/09	1949:05	1950:50	172	240	7260	5		
2735	161	81/06/10	0908:30	0909:30	168	116	3138	2		
2736	161	81/06/10	1154:25	1155:10	75	81		2		
2737	161	81/06/10	1326:05	1328:35	200	94		5		
2738	161	81/06/10	1503:50	1507:35	502	93	6131	5		
2739	162	81/06/11	1142:25	1143:50	185	99		6		AX

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6405	164	81/06/13	1259:57	1302:00	199	98		3		I
2740	164	81/06/13	2241:55	2242:05	25	98		2		
6406	165	81/06/14	1116:38	1118:28	152	78		2		I
6407	165	81/06/14	1245:33	1246:04	55	61		2		I
2741	167	81/06/16	0640:45	0641:45	85	65		2		
2742	167	81/06/16	0744:25	0745:20	200	111	4512	2		
2743	167	81/06/16	1230:15	1231:10	125	100	2229	2		
2744	167	81/06/16	1232:50	1234:35	185	70		3		
2745	167	81/06/16	2028:30	2028:55	75	93		2		
2746	168	81/06/17	0002:15	0003:55	486	1236	52891	5	3157	
2747	168	81/06/17	0132:30	0133:05	75	296	4406	3		
2748	168	81/06/17	0250:35	0251:50	130	97		2		
2749	168	81/06/17	0322:45	0324:15	149	112	2035	4		
2750	168	81/06/17	0430:05	0430:35	40	71		2		
2751	168	81/06/17	0506:20	0506:30	20	65		2		
2752	168	81/06/17	0751:55	0752:00	25	89		2		
2753	168	81/06/17	0910:55	0912:35	175	78		5		
2754	168	81/06/17	0946:50	0949:10	334	571	26782	7		
2755	168	81/06/17	1000:55	1001:20	65	92		2		
6413	169	81/06/18	1313:03	1313:37	54	105	854	2		I
2756	173	81/06/22	1450:30	1454:20	1386	329	98304	10	3170	M ,SN,ES
2766	174	81/06/23	0042:40	0043:00	180	83		2		
2757	174	81/06/23	0658:55	0659:05	47	156	2063	4		
2758	174	81/06/23	0903:15	0904:20	143	143	3278	2		
6419	174	81/06/23	1052:38	1053:49	125	176	6456	2		I
6420	174	81/06/23	1101:46	1102:34	118	59		2		I
2759	174	81/06/23	1220:40	1223:30	375	133	8547	2		
2760	174	81/06/23	1719:00	1719:05	360	127	15492	3		M ,SA,AX
2761	174	81/06/23	1815:20	1815:50	55	76		2		
2762	174	81/06/23	1823:50	1824:30	85	75		2		
2763	174	81/06/23	1858:00	1858:05	68	212	2797	3		M ,SA
2764	174	81/06/23	2252:30	2252:55	60	74		2		
2765	174	81/06/23	2336:15	2337:15	110	89		2		
2767	175	81/06/24	0157:20	0159:10	216	123	6418	2		
2768	175	81/06/24	0638:40	0640:15	195	87		2		
2769	175	81/06/24	0853:35	0853:40	23	115	418	3		
2770	175	81/06/24	1305:55	1307:25	95	76		2		
2771	175	81/06/24	1624:20	1624:45	70	81		2		
2772	175	81/06/24	1709:50	1712:30	225	198	8900	3		SN
2773	175	81/06/24	2028:15	2028:45	65	130	1340	2		
2774	176	81/06/25	0057:00	0058:10	1150	1480	99613	10		ND
2775	176	81/06/25	0157:45	0159:10	148	1018	14193	10		M
2776	176	81/06/25	0201:55	0202:40	75	76		2		
2777	176	81/06/25	0219:35	0219:50	39	154	4358	2		ND
2778	176	81/06/25	0334:05	0336:50	345	205	6205	2		
2779	176	81/06/25	0345:20	0345:40	75	151	1380	4		
2780	176	81/06/25	0406:40	0407:15	65	72		2		
2781	176	81/06/25	0508:45	0509:00	40	88		2		
2782	176	81/06/25	1741:45	1745:00	415	262	22539	2	3178	
2783	176	81/06/25	2021:30	2022:00	69	360	4749	5		
2784	176	81/06/25	2051:20	2051:50	213	75	1676	2		
2785	176	81/06/25	2157:25	2158:00	105	77		2		
2786	176	81/06/25	2309:45	2309:50	20	69		2		
2787	176	81/06/25	2311:15	2311:35	60	82		2		
2788	177	81/06/26	0034:15	0035:10	200	106	2807	2		
2789	177	81/06/26	0320:15	0325:15	1317	119	21576	2		
2790	177	81/06/26	0640:35	0644:35	672	552	52722	2	3170	
2791	177	81/06/26	1340:55	1341:30	80	430	4448	3		
2792	177	81/06/26	1909:05	1909:45	200	64		2		
2793	178	81/06/27	0753:55	0754:50	85	95		2		
2794	178	81/06/27	0847:20	0857:10	772	391	6391	5	3178	M ,EN
2795	179	81/06/28	0023:05	0023:40	285	419	10446	5		
2796	179	81/06/28	0358:15	0359:10	240	674	22394	10	3180	FS
2797	179	81/06/28	0437:45	0438:35	115	83		2		
2798	179	81/06/28	0508:25	0508:55	50	95		2		
2799	179	81/06/28	0654:00	0654:35	120	85		2		
2800	179	81/06/28	0714:50	0715:20	65	63		2		
2801	180	81/06/29	0035:20	0040:40	765	1798	4.37E+05	5	3180	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2802	180	81/06/29	0357:25	0357:45	40	76		2		
2803	181	81/06/30	0213:55	0215:25	140	96		6		AX
2804	181	81/06/30	0620:30	0621:40	200	122	6022	2		
2805	181	81/06/30	2037:35	2037:55	60	83		2		
2806	181	81/06/30	2341:00	2341:35	115	83		2		
2807	182	81/07/01	2028:25	2028:50	35	72		2		
2808	183	81/07/02	0015:45	0016:45	90	77		4		
2809	183	81/07/02	0156:35	0156:45	210	137	5586	13		
2810	183	81/07/02	0235:00	0236:10	90	136	1833	2		
6425	183	81/07/02	1244:30	1244:57	170	1513	27400	4		M ,I
6426	183	81/07/02	1255:53	1301:25	717	614	87522	2	3180	I ,EN
2811	184	81/07/03	0111:05	0112:10	136	203	5826	2		
2812	184	81/07/03	0119:55	0124:50	602	1593	91923	5	3180	M
2816	184	81/07/03	0139:45	0140:40	165	65		2		
2813	184	81/07/03	0440:20	0443:45	438	149	7370	2		
6427	184	81/07/03	0934:51	0935:13	30	95		2		I
2814	184	81/07/03	1907:00	1908:20	611	412	20798	5	3188	M
2815	184	81/07/03	2357:05	2358:35	110	84		2		
2817	185	81/07/04	0549:55	0550:10	40	67		2		
2818	185	81/07/04	0554:10	0554:35	110	67		2		
2819	185	81/07/04	2124:20	2127:30	733	319	55334	10		
2820	185	81/07/04	2345:10	2347:50	473	154	17640	10		
2821	186	81/07/05	1530:05	1530:25	194	116	3179	2		
2822	186	81/07/05	1952:35	1953:10	125	67		2		
2823	187	81/07/06	2245:15	2251:35	619	130	13969	10		
2824	187	81/07/06	2328:05	2330:10	412	196	18743	10		
2825	188	81/07/07	0217:20	0220:45	422	89	7537	2		
2826	188	81/07/07	0243:57	0244:55	155	90		2		
2827	188	81/07/07	2239:25	2242:00	195	84		5		AX
2828	189	81/07/08	0034:50	0035:10	30	68		2		
2829	189	81/07/08	1149:55	1150:05	21	117	276	2		
2830	189	81/07/08	1215:35	1217:30	145	79		2		
2831	189	81/07/08	2050:45	2050:55	130	85		2		
2832	189	81/07/08	2228:45	2233:05	749	170	25153	5		AX
2833	189	81/07/08	2307:45	2308:45	506	98		5		AX
2834	190	81/07/09	0028:00	0029:30	197	83		2		AX
2835	190	81/07/09	0714:30	0714:55	195	75		2		AX
2836	190	81/07/09	1315:30	1316:45	351	487	32757	2		M
2837	190	81/07/09	1610:10	1611:00	85	100	2349	2		
2838	190	81/07/09	1740:30	1741:20	65	79		2		
2839	190	81/07/09	2041:00	2045:15	521	214	29289	10		SN
2840	191	81/07/10	0655:00	0655:07	13	504	1348	5		
2841	191	81/07/10	1939:25	1941:25	135	70		2		
2842	191	81/07/10	2211:45	2213:45	190	85		5		
2843	192	81/07/11	1500:15	1501:35	175	66		2		
2844	192	81/07/11	2342:25	2342:50	65	67		2		EW
2845	192	81/07/11	2345:25	2346:00	70	90		2		EW
2846	193	81/07/12	0211:10	0215:10	505	204	9909	5		
2847	193	81/07/12	0444:05	0444:10	15	78		2		EW
2848	193	81/07/12	0446:30	0446:50	44	307	1882	5		EW
2849	193	81/07/12	1104:30	1104:55	40	88		2		
6441	193	81/07/12	2055:24	2057:06	210	66		3		I
2850	193	81/07/12	2233:15	2237:00	488	106	11982	5		
2851	194	81/07/13	1842:40	1843:35	80	79		2		
6442	194	81/07/13	2045:43	2047:28	195	76		3		I ,DG
6443	194	81/07/13	2055:39	2056:20	60	65		2		I
2852	194	81/07/13	2224:00	2228:10	646	213	2113	5		
2853	195	81/07/14	2215:25	2219:30	619	104	15980	5		
2854	196	81/07/15	0247:50	0248:25	105	73		2		
2855	196	81/07/15	0731:10	0731:45	138	118	2677	2		
2856	196	81/07/15	1642:50	1645:40	565	502	61942	4	3203	M
2857	196	81/07/15	2005:05	2006:00	210	217	4441	2		
2858	196	81/07/15	2134:20	2135:20	157	61		2		
2859	196	81/07/15	2157:55	2159:15	289	194	9838	2		
2868	197	81/07/16	0251:25	0252:10	135	96		2		
2860	197	81/07/16	0418:25	0419:15	136	252	5342	2		
2861	197	81/07/16	1217:00	1217:10	115	63		2		
2862	197	81/07/16	1509:45	1510:45	150	67		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2863	197	81/07/16	1636:10	1641:10	492	1689	60851	8	3204	M ,FS
2864	197	81/07/16	2023:40	2025:15	115	67		2		
2865	197	81/07/16	2029:45	2030:35	90	68		2		
2866	197	81/07/16	2038:55	2039:25	65	55		2		
2867	197	81/07/16	2323:30	2325:40	288	106	5043	2		
2869	198	81/07/17	0345:15	0345:30	29	288	1976	5		SA
2870	198	81/07/17	0538:00	0542:25	348	71	2784	2		
2871	198	81/07/17	0708:50	0709:30	65	92		2		
2872	198	81/07/17	0842:22	0842:35	2556	1100	5.02E+05	10		M ,SA
2873	198	81/07/17	1145:10	1146:50	219	134	2994	2		
2874	198	81/07/17	1153:40	1155:50	174	173	3443	2		M
2875	198	81/07/17	1223:15	1225:20	614	1137	1.23E+05	5	3203	FS
2876	198	81/07/17	1347:25	1347:45	55	99		2		
2877	198	81/07/17	1505:30	1505:50	34	300	1502	5		
2878	198	81/07/17	1645:35	1646:00	40	65		2		
2879	198	81/07/17	1648:45	1649:15	92	176	2699	2		
2880	198	81/07/17	1700:05	1703:10	679	385	47047	4	3203	
2881	198	81/07/17	2010:40	2010:50	15	74		2		
2882	198	81/07/17	2012:20	2012:35	30	85		3		
2883	198	81/07/17	2303:35	2304:00	45	67		2		
2884	199	81/07/18	0030:25	0031:45	260	160	7579	2		
2885	199	81/07/18	0111:15	0111:40	55	76		2		
2886	199	81/07/18	0215:10	0215:20	41	123	817	2		
2887	199	81/07/18	0404:45	0404:50	10	78		2		
2888	199	81/07/18	0705:45	0709:40	643	980	1.43E+05	5	3221	M
2889	199	81/07/18	0841:40	0841:55	35	98		2		
2890	199	81/07/18	1140:10	1148:40	848	637	68358	2	3221	M ,ND
2891	199	81/07/18	1213:50	1214:20	184	158	4648	2		DG
2892	199	81/07/18	1222:30	1222:40	216	4982	51190	10		
2893	199	81/07/18	1307:05	1312:30	630	209	13908	2		
2894	199	81/07/18	1332:20	1332:35	30	78		2		
2895	199	81/07/18	1403:40	1404:00	85	66		2		
2896	199	81/07/18	1640:35	1641:30	106	124	2852	5		
2897	199	81/07/18	1759:30	1803:55	601	73		2		DG
2898	199	81/07/18	1933:05	1933:20	25	71		2		
2899	199	81/07/18	2015:25	2015:50	70	70		2		
2900	199	81/07/18	2248:50	2249:35	174	123	3424	2		
2901	199	81/07/18	2259:35	2300:10	120	67		2		
2902	200	81/07/19	0015:05	0015:20	106	142	1418	2		
2903	200	81/07/19	0021:45	0022:20	80	62		2		
2904	200	81/07/19	0024:15	0024:30	47	291	1479	3		
2905	200	81/07/19	0150:45	0200:05	3258	5697	5.33E+05	5	3221	M
2906	200	81/07/19	0417:30	0425:10	491	6358	1.68E+05	6	3221	EN,EW
2907	200	81/07/19	0506:20	0533:50	3255	34086	1.23E+07	14	3204	M ,EN,SA
2908	200	81/07/19	0735:10	0735:50	73	128	612	2		
2909	200	81/07/19	0825:15	0825:40	45	68		2		
2910	200	81/07/19	1005:50	1006:15	40	72		2		
2911	200	81/07/19	1020:05	1020:40	85	75		2		
2912	200	81/07/19	1300:40	1301:45	105	69		2		
2913	200	81/07/19	1336:35	1337:00	72	544	3280	4		M
2914	200	81/07/19	2239:45	2240:10	40	69		2		
2915	200	81/07/19	2302:30	2303:00	60	71		2		
2916	201	81/07/20	0217:25	0217:27	30	87		2		
2917	201	81/07/20	0229:10	0230:35	227	227	4248	2		
2918	201	81/07/20	0343:00	0343:10	60	118	1706	2		
2919	201	81/07/20	0508:25	0508:55	60	66		2		
2920	201	81/07/20	0719:35	0719:55	50	91		2		
2921	201	81/07/20	0957:05	0957:25	81	132	2084	2		
2922	201	81/07/20	1145:40	1146:30	115	100	1669	2		
2923	201	81/07/20	1200:50	1201:25	60	60		2		
2924	201	81/07/20	1211:25	1211:50	50	56		2		
2925	201	81/07/20	1307:15	1318:30	2560	1540	7.54E+05	9	3204	EN
2926	201	81/07/20	1736:45	1737:05	442	145	13865	2	3219	SN
2927	201	81/07/20	2050:15	2050:25	40	60		2		
2928	201	81/07/20	2110:35	2110:55	40	66		2		
2929	201	81/07/20	2255:40	2256:10	45	62		2		
2930	201	81/07/20	2309:00	2309:05	20	91		2		
2951	202	81/07/21	0131:55	0135:50	447	171	14541	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2952	202	81/07/21	0141:30	0141:55	157	824	16166	4		M
2953	202	81/07/21	0151:10	0151:45	125	75		2		
2931	202	81/07/21	0211:25	0212:15	75	64		2		
2932	202	81/07/21	0230:05	0230:50	209	139	3282	2		
2933	202	81/07/21	0359:00	0404:10	600	419	35091	5	3224	M
2934	202	81/07/21	0455:45	0456:10	94	260	3994	2		
2935	202	81/07/21	0634:00	0635:10	180	79		2		
2936	202	81/07/21	0715:05	0715:35	105	186	7721	4		M
2937	202	81/07/21	0815:10	0815:35	73	149	1532	2		
2938	202	81/07/21	0835:40	0848:00	1227	307	44785	2	3224	EN
2939	202	81/07/21	0945:15	0945:45	125	119	2171	2		
2940	202	81/07/21	1110:35	1111:35	160	85		2		
2941	202	81/07/21	1124:25	1125:00	135	69		2		
2942	202	81/07/21	1314:05	1315:15	120	104	2388	2		
2943	202	81/07/21	1609:35	1609:50	45	66		2		
2944	202	81/07/21	1613:25	1614:40	195	72		3		
2945	202	81/07/21	1621:10	1622:05	80	69		2		
2946	202	81/07/21	1647:45	1648:45	282	240	12524	2		M
2947	202	81/07/21	1812:10	1812:30	35	59		2		
2948	202	81/07/21	1905:30	1905:40	25	62		2		
12685	202	81/07/21	1907:42	1907:45	7	35				NS,GB
2949	202	81/07/21	1908:20	1910:00	188	762	28591	3	3221	M
2950	202	81/07/21	2102:15	2102:35	65	119	1052	2		
2954	203	81/07/22	0325:10	0326:10	115	70		2		
2955	203	81/07/22	0354:45	0355:15	93	120	1292	2		
2956	203	81/07/22	0800:35	0801:10	35	61		2		
2957	203	81/07/22	0821:00	0823:25	321	142	5288	2		
2958	203	81/07/22	0837:00	0837:45	623	1283	84894	4		M
2959	203	81/07/22	1014:40	1015:10	60	82		2		
2960	203	81/07/22	1018:30	1018:50	70	236	2979	3		
2961	203	81/07/22	1020:00	1020:13	30	79		2		
2962	203	81/07/22	1604:15	1605:30	190	92		4		
2963	203	81/07/22	1743:15	1744:40	135	79		2		
2964	203	81/07/22	1905:25	1905:40	40	75		2		
2965	203	81/07/22	2048:25	2048:35	63	125	1021	2		
2966	203	81/07/22	2356:50	2356:55	41	203	1496	3		
2967	204	81/07/23	0211:00	0211:50	184	687	20181	4		
2968	204	81/07/23	0307:35	0308:00	83	406	5446	5		M
2969	204	81/07/23	0438:05	0446:40	630	610	19405	3		
2970	204	81/07/23	0820:00	0821:00	120	65		2		
2971	204	81/07/23	0927:15	0927:30	45	70		2		
2972	204	81/07/23	1000:50	1000:55	124	848	8809	6		
2973	204	81/07/23	1102:15	1103:15	135	91		2		
2974	204	81/07/23	1228:25	1231:30	530	79	6337	3		
2975	204	81/07/23	1405:30	1410:10	1005	82	77260	3		
2976	204	81/07/23	1452:35	1453:00	75	179	12117	3		
2977	204	81/07/23	1457:30	1457:40	15	60		2		
2978	204	81/07/23	1548:15	1549:35	160	83		2		
2979	204	81/07/23	1630:10	1634:50	405	73	5854	7		EN
2980	204	81/07/23	1920:45	1922:00	155	77		2		
2981	204	81/07/23	2038:45	2039:30	175	81		2		
2982	204	81/07/23	2045:50	2048:10	461	410	38416	2	3234	M
2983	204	81/07/23	2103:30	2103:35	60	55		2		
2984	205	81/07/24	0304:50	0305:55	162	214	5763	2		
2985	205	81/07/24	0506:35	0509:20	614	145	4736	2		
2986	205	81/07/24	0603:10	0603:25	70	87		2		
2987	205	81/07/24	0622:40	0623:25	79	101	1150	2		
2988	205	81/07/24	0626:45	0627:15	88	114	522	2		
2989	205	81/07/24	0747:35	0748:30	404	806	77860	5	3234	M
2990	205	81/07/24	1112:50	1114:25	128	120	1696	2		
2991	205	81/07/24	1229:45	1230:55	140	72		2		
2992	205	81/07/24	1240:15	1241:05	116	142	1793	2		
6444	205	81/07/24	1402:14	1403:41	126	71		2		I
2993	205	81/07/24	1408:25	1409:40	105	93		2		
6445	205	81/07/24	1428:54	1429:24	54	69		2		I
6446	205	81/07/24	1448:08	1448:27	34	92		2		I
2994	205	81/07/24	2031:25	2032:05	94	261	4768	4		
2995	205	81/07/24	2343:10	2346:30	316	117	7884	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
2996	206	81/07/25	0124:50	0125:10	60	69		2		
2997	206	81/07/25	0158:05	0158:35	105	93		2		
2998	206	81/07/25	0310:35	0311:10	83	121	1947	2		
2999	206	81/07/25	0634:55	0636:20	199	87		2		
3000	206	81/07/25	0919:20	0921:20	277	785	28421	4		
3001	206	81/07/25	1059:40	1100:05	80	67		2		ND
3002	206	81/07/25	1110:20	1110:30	135	192	4355	2		ND
6456	206	81/07/25	1243:36	1247:02	1278	2178	5.98E+05	7	3234	I ,FS
3003	206	81/07/25	1710:40	1712:35	520	1656	1.76E+05	10		M ,AX
3004	206	81/07/25	1726:10	1727:40	101	200	2245	2		AX
3005	206	81/07/25	1838:30	1851:00	2072	845	5.96E+05	12		AX
3006	206	81/07/25	2013:00	2014:25	141	136	3423	2		AX
3007	206	81/07/25	2025:00	2029:00	573	228	25140	12		
3008	206	81/07/25	2156:00	2156:05	25	76		2		
3009	206	81/07/25	2201:30	2213:35	1059	93	18298	2		AX
3010	206	81/07/25	2336:50	2337:35	87	555	7134	5		M
3011	206	81/07/25	2345:25	2347:50	183	139	2419	2		
3012	206	81/07/25	2353:55	2355:35	125	63		2		
3013	206	81/07/25	2358:05	2358:15	80	91		2		
3014	207	81/07/26	0121:30	0123:10	230	466	11855	3		M
3015	207	81/07/26	0313:05	0313:15	23	167	543	4		
3016	207	81/07/26	0404:20	0411:30	712	3008	1.59E+05	8	3234	M ,SN,ND
3017	207	81/07/26	0547:55	0548:30	75	79		2		
3018	207	81/07/26	0559:15	0602:00	559	901	45051	5	3234	M
3019	207	81/07/26	0619:10	0619:40	81	157	1821	4		
3020	207	81/07/26	0724:05	0725:25	165	97		2		
3021	207	81/07/26	0732:55	0733:45	312	65	1974	2		
3022	207	81/07/26	0755:20	0805:45	1095	6974	8.24E+05	12	3234	M ,FS
3023	207	81/07/26	0850:30	0911:35	1476	1476	49581	5	3221	
3024	207	81/07/26	0941:45	0943:00	125	80		2		
3025	207	81/07/26	0947:25	0947:30	35	65		2		
3026	207	81/07/26	1107:40	1108:10	50	188	1109	4		
3027	207	81/07/26	1111:05	1113:00	539	2614	2.54E+05	10	3234	
3028	207	81/07/26	1215:45	1216:10	56	107	829	2		
3029	207	81/07/26	1249:40	1249:55	33	311	1746	3	3232	FS
3030	207	81/07/26	1347:35	1352:25	668	56177	8.12E+06	15	3234	M
3031	207	81/07/26	1528:10	1533:30	1079	217	30400	2	3234	ND
3032	207	81/07/26	1847:40	1849:15	198	93		2		
3033	207	81/07/26	2134:00	2134:10	210	222	9948	2	3234	SN
3034	207	81/07/26	2203:00	2203:35	105	95		2		
3035	207	81/07/26	2214:35	2215:10	110	71		2		
3036	207	81/07/26	2218:15	2219:25	110	97		2		
3037	207	81/07/26	2320:50	2327:45	683	345	16537	5	3234	
3038	207	81/07/26	2347:15	2349:10	217	292	9316	5		
3039	208	81/07/27	0001:30	0002:35	105	75		2		ES
3040	208	81/07/27	0102:55	0107:55	408	294	9353	5	3234	FS
3041	208	81/07/27	0113:20	0114:30	169	600	27294	2	3234	
3042	208	81/07/27	0312:50	0313:40	123	110	1845	2		
3043	208	81/07/27	0404:20	0407:15	212	223	3100	4		
3044	208	81/07/27	0412:30	0414:15	378	8554	1.74E+05	9	3221	M ,FS
3045	208	81/07/27	0429:55	0430:05	25	62		2		
3046	208	81/07/27	0433:55	0434:10	170	77		2		
3047	208	81/07/27	0440:55	0441:15	195	77		2		
3048	208	81/07/27	0600:45	0601:15	60	82		2		
3049	208	81/07/27	0617:25	0617:55	69	451	1968	5		M
3050	208	81/07/27	0627:35	0630:05	162	102	2327	2		EN
3051	208	81/07/27	0721:50	0722:25	69	153	994	2		
3052	208	81/07/27	0725:50	0726:30	119	125	2247	2		
3053	208	81/07/27	0754:35	0755:10	65	62		2		
3054	208	81/07/27	0927:50	0928:10	40	65		2		
3055	208	81/07/27	0933:15	0933:40	60	72		2		
3056	208	81/07/27	1156:40	1157:35	87	80		3		
3057	208	81/07/27	1203:10	1203:25	35	80		3		
3058	208	81/07/27	1223:50	1225:10	175	66		2		
3059	208	81/07/27	1334:10	1343:50	1227	199	8473	15		
3060	208	81/07/27	1411:50	1416:35	676	78	10135	5		
3061	208	81/07/27	1515:56	1523:55	640	96	6727	5		
3062	208	81/07/27	1647:00	1647:55	110	97		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3063	208	81/07/27	2201:35	2201:45	20	78		2		
3064	209	81/07/28	0125:45	0126:45	84	133	1460	2		
3065	209	81/07/28	0216:25	0217:25	470	502	17522	3		
3066	209	81/07/28	0257:50	0300:20	291	129	4621	2		
3067	209	81/07/28	0712:50	0714:10	150	76		2		
3068	209	81/07/28	0725:35	0726:15	427	256	13752	3		
3069	209	81/07/28	1020:40	1021:15	110	66		2		
3070	209	81/07/28	1232:10	1232:20	55	77		2		
3071	209	81/07/28	1402:50	1408:15	628	96	58758	6		
3072	209	81/07/28	1640:35	1641:15	110	90		2		
3073	209	81/07/28	1950:00	1950:25	60	61		2		
3074	209	81/07/28	2009:00	2010:00	598	11321	4.95E+05	9	3234	M
3075	210	81/07/29	0240:30	0240:50	100	69		2		
3076	210	81/07/29	0357:15	0357:40	55	65		2		
6471	210	81/07/29	1028:46	1029:08	49	87		2		I
6472	210	81/07/29	1045:02	1045:12	13	97		2		I
6473	210	81/07/29	1052:50	1053:03	56	100	1168	2		I
6474	210	81/07/29	1224:34	1226:45	239	852	16814	5		I
3077	210	81/07/29	2258:00	2258:05	25	402	2649	5		M
3078	210	81/07/29	2305:15	2306:45	223	360	7145	5		
3079	211	81/07/30	0053:40	0054:00	45	80		2		
3080	211	81/07/30	0512:35	0513:15	60	97		2		
3081	211	81/07/30	0541:25	0541:45	75	65		2		
3082	211	81/07/30	0650:50	0651:00	50	66		2		
3083	211	81/07/30	0733:25	0734:40	112	195	1545	2		
3084	211	81/07/30	0901:15	0901:40	162	382	2905	5		
3085	211	81/07/30	1008:35	1010:40	166	644	3031	5		FS
3086	211	81/07/30	1046:00	1046:40	302	1530	33272	4		
3087	211	81/07/30	1135:50	1136:30	50	77		4		
3088	211	81/07/30	1156:50	1157:20	60	57		2		
3089	211	81/07/30	1307:40	1309:40	254	88	3874	4		
3090	211	81/07/30	1345:05	1351:10	632	129	16337	9		
3091	211	81/07/30	1449:20	1451:15	585	141	18715	6		
3092	211	81/07/30	1614:10	1617:00	1359	388	72359	6		M ,FS
3093	211	81/07/30	1947:00	1947:40	63	195	1256	3		
3094	211	81/07/30	1950:00	1951:15	238	446	9751	5		M
3095	211	81/07/30	2131:35	2133:45	290	928	28283	5		M
3096	211	81/07/30	2326:08	2327:45	132	403	18722	3		M ,ES
3097	212	81/07/31	0038:10	0038:15	20	358	1361	5		FS
3098	212	81/07/31	0050:55	0053:15	337	1777	92528	7	3234	FS
3099	212	81/07/31	0326:35	0327:40	230	388	12866	4		M
3100	212	81/07/31	0344:10	0345:15	145	70		2		
3101	212	81/07/31	0405:20	0406:05	234	139	5144	2		
3102	212	81/07/31	0518:25	0518:35	80	111	1341	2		
3103	212	81/07/31	0520:45	0521:10	55	92		2		
3104	212	81/07/31	0555:20	0556:05	88	729	13768	8		
3105	212	81/07/31	0840:55	0841:55	140	65		2		
3106	212	81/07/31	1120:45	1121:30	90	98		3		
3107	212	81/07/31	1314:20	1314:55	60	67		2		
3108	212	81/07/31	1940:20	1940:55	65	81		2		
3109	212	81/07/31	2252:55	2254:15	110	98		2		
3110	213	81/08/01	0050:55	0051:30	45	91		2		
3111	213	81/08/01	0457:30	0458:00	50	76		2		
3112	213	81/08/01	0807:25	0808:35	167	126	4167	2		
3113	213	81/08/01	1116:25	1118:30	209	181	11438	13		
3114	213	81/08/01	1249:35	1251:50	235	106	4876	4		
3115	213	81/08/01	1438:10	1438:55	80	82		2		
12686	213	81/08/01	1718:47	1718:53	29	79	523	8		NS,GB
3116	213	81/08/01	2227:55	2229:25	169	112	2798	2		
3117	213	81/08/01	2258:05	2258:25	80	82		2		
3118	214	81/08/02	0039:35	0040:00	45	95		2		
3119	214	81/08/02	0135:05	0135:25	38	142	822	2		
3120	214	81/08/02	0339:25	0339:45	60	94		2		
3121	214	81/08/02	0634:25	0637:00	290	150	4879	2		
3122	214	81/08/02	1240:45	1241:15	198	85		3		AX
3123	214	81/08/02	2110:40	2111:20	75	70		2		
3124	215	81/08/03	0023:40	0025:50	135	65		2		
3125	215	81/08/03	0137:00	0137:25	57	150	1722	4		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3126	215	81/08/03	0140:05	0140:55	105	81		2		
3127	215	81/08/03	0305:30	0306:35	195	74		2		
3128	215	81/08/03	0917:40	0918:40	155	68		3		
3129	215	81/08/03	0942:30	0943:45	120	79		3		
3130	215	81/08/03	0957:35	1001:10	804	157	16878	2		
3131	215	81/08/03	1056:05	1059:10	353	180	16968	7		M
3132	215	81/08/03	1118:30	1119:30	752	279	21614	5	3234	
3133	215	81/08/03	1138:40	1139:35	60	61		2		
3134	215	81/08/03	1244:25	1248:50	382	162	9187	3		
3135	215	81/08/03	1601:15	1604:45	250	128	4723	2		
3136	215	81/08/03	1857:30	1858:05	130	74		2		
3137	215	81/08/03	1921:00	1921:25	45	70		2		
3138	215	81/08/03	2026:20	2026:20	662	1270	1.90E+05	3	3257	M ,SN
3139	215	81/08/03	2221:55	2224:25	175	86		2		
3140	215	81/08/03	2336:35	2340:45	1160	440	1.13E+05	4	3257	M ,SN
3141	216	81/08/04	0132:10	0133:40	284	74	3490	2		
3142	216	81/08/04	0206:55	0207:35	71	194	1195	2		
3143	216	81/08/04	0210:30	0212:20	140	75		2		
3144	216	81/08/04	0458:15	0501:50	422	75	3436	2		
3145	216	81/08/04	0622:35	0622:55	25	65		2		
3146	216	81/08/04	0628:15	0628:25	60	74		2		
3147	216	81/08/04	0652:30	0654:00	129	388	3419	3		M
3148	216	81/08/04	0656:10	0657:15	190	2469	21756	8	3257	M
3149	216	81/08/04	0809:45	0810:25	195	340	13111	4		
3150	216	81/08/04	0822:05	0824:35	180	92		2		
3151	216	81/08/04	0949:05	0951:45	288	131	3797	2		
3152	216	81/08/04	1004:00	1006:05	155	73		2		
3153	216	81/08/04	1046:30	1050:30	421	118	10168	5		
3154	216	81/08/04	1106:40	1107:40	195	91		2		
3155	216	81/08/04	1115:50	1117:20	165	67		2		
3156	216	81/08/04	1119:52	1122:05	170	127	1033	2		
3157	216	81/08/04	1129:30	1130:45	182	434	12360	3	3257	
3158	216	81/08/04	1221:25	1222:50	552	87	9559	5		
3159	216	81/08/04	1451:10	1451:20	100	90		5		AX
3160	216	81/08/04	1531:05	1531:40	83	226	2038	3		
3161	216	81/08/04	1842:25	1843:30	112	105	889	2		
3162	216	81/08/04	1854:35	1854:45	100	113	560	2		
3163	216	81/08/04	2041:50	2043:15	198	78		2		
3164	216	81/08/04	2054:50	2055:40	65	61		2		
3165	216	81/08/04	2332:00	2332:25	120	104	1194	2		
3166	216	81/08/04	2345:55	2346:15	70	73		2		
3167	216	81/08/04	2347:40	2349:20	165	77		2		
3168	216	81/08/04	2351:55	2352:15	55	159	982	2		
3169	216	81/08/04	2355:30	2355:40	55	69		2		
3170	216	81/08/04	2359:20	2359:30	85	84		2		
3171	217	81/08/05	0114:15	0114:40	100	60		2		
3172	217	81/08/05	0244:55	0245:15	105	93		3		
12687	217	81/08/05	0633:21	0633:23	10	63	86	3		NS,GB
3173	217	81/08/05	0737:55	0739:00	245	1411	19363	5	3257	M
3174	217	81/08/05	1053:25	1053:50	45	99		2		
3175	217	81/08/05	1212:00	1216:20	689	88	12256	5		SN
3176	217	81/08/05	1541:55	1543:10	223	224	6637	2		
3177	217	81/08/05	2041:25	2041:35	25	72		2		
3178	218	81/08/06	0424:25	0424:50	50	62		2		
3179	218	81/08/06	0458:30	0458:45	25	87		2		
6476	218	81/08/06	0817:09	0818:25	91	203	4054	2	3234	M ,I
3180	218	81/08/06	0920:25	0920:30	25	62		2		
3181	218	81/08/06	0924:10	0924:30	53	136	1255	3		
3182	218	81/08/06	1031:20	1032:20	75	368	2587	4		M
3183	218	81/08/06	1352:25	1352:50	50	70		2		
3184	219	81/08/07	0737:00	0737:40	190	65		2		
3185	219	81/08/07	1200:05	1202:15	145	74		3		
3186	219	81/08/07	1952:24	1952:50	2536	125	89700	3	3257	M ,SN,ES
3187	220	81/08/08	1329:00	1329:10	16	253	1409	3		
3188	220	81/08/08	2125:35	2133:20	780	192	22150	2		
3189	220	81/08/08	2320:45	2321:05	50	69		2		
3190	221	81/08/09	0254:05	0254:35	60	74		2		
3191	221	81/08/09	0256:35	0257:10	75	94		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3192	221	81/08/09	1459:05	1500:15	296	186	11929	5	3257	
3193	222	81/08/10	0657:05	0658:55	579	12265	4.59E+05	10	3257	FS
3194	222	81/08/10	0724:35	0725:05	118	109	1377	2		
3195	222	81/08/10	0745:05	0745:45	86	1847	27426	10	3257	FS
6481	222	81/08/10	1803:46	1811:41	593	73	4279	2		I
3196	222	81/08/10	2243:45	2244:30	65	69		2		
3197	223	81/08/11	0043:05	0043:45	75	68		2		
3198	223	81/08/11	0150:10	0150:30	115	89		2	3257	
3199	223	81/08/11	0158:50	0159:30	95	99		2		
3200	223	81/08/11	1434:00	1448:55	1007	744	1.16E+05	5	3257	M ,ES
3201	223	81/08/11	1807:10	1808:25	180	74		2		
3202	223	81/08/11	2116:55	2117:05	25	63		2		
3203	224	81/08/12	0106:00	0106:45	60	67		2		EW
3204	224	81/08/12	0219:10	0219:45	105	63		2		
3205	224	81/08/12	0221:40	0222:35	175	89		2		
3206	224	81/08/12	0229:20	0232:10	713	557	48672	5	3257	M
3207	224	81/08/12	0338:00	0338:15	95	67		2		
3208	224	81/08/12	0345:15	0345:50	279	252	7281	5		
3209	224	81/08/12	0417:30	0417:45	148	887	19316	7		
3210	224	81/08/12	0551:15	0551:30	40	76		2		
3211	224	81/08/12	0628:50	0629:15	1498	19518	2.01E+06	5	3257	M ,SN
3212	224	81/08/12	1025:20	1026:15	218	292	9273	3		M
3213	224	81/08/12	1034:35	1035:10	50	67		2		
3214	224	81/08/12	1253:40	1254:30	80	56		2		
3215	224	81/08/12	1256:30	1256:45	45	54		2		
3216	224	81/08/12	1300:15	1300:35	71	176	1292	3		M
3217	224	81/08/12	2058:15	2059:10	85	79		2		EW
3218	224	81/08/12	2100:20	2100:35	110	80		2		
3219	224	81/08/12	2103:30	2110:50	1236	458	1.23E+05	3	3257	
6482	224	81/08/12	2225:46	2226:05	114	1293	24849	5	3266	M ,I ,FS
6484	224	81/08/12	2313:22	2313:31	35	55		2		I
6483	224	81/08/12	2324:40	2325:06	104	74		2		
3220	225	81/08/13	0003:30	0003:55	40	68		2		
3221	225	81/08/13	0007:35	0007:40	35	72		2		
3222	225	81/08/13	0029:40	0031:20	313	160	8859	2		
3223	225	81/08/13	0207:30	0210:20	199	69		2		
3224	225	81/08/13	0341:55	0342:25	277	304	18248	4		ND
3225	225	81/08/13	0400:40	0400:55	32	134	1117	8		
3226	225	81/08/13	0402:30	0404:05	180	62		2		
3227	225	81/08/13	0505:25	0507:20	180	71		2		
3228	225	81/08/13	0637:25	0637:45	83	133	1443	2		
3229	225	81/08/13	0715:05	0716:30	487	3262	1.45E+05	7	3257	FS
3230	225	81/08/13	1159:15	1200:15	479	315	11969	2		
3231	225	81/08/13	1335:20	1338:00	503	297	28465	2		
3232	225	81/08/13	1609:30	1609:45	30	81		2		
3233	225	81/08/13	2134:55	2137:40	342	342	17185	2	3257	
3234	225	81/08/13	2237:40	2237:55	46	322	2466	3	3257	M ,FS
3235	225	81/08/13	2309:10	2309:25	25	95		2		
3236	226	81/08/14	0015:00	0015:40	40	63		2		
3237	226	81/08/14	0024:20	0048:25	1774	501	40521	6	3259	EN
3238	226	81/08/14	0504:15	0504:25	55	70		2		
3239	226	81/08/14	0511:55	0512:35	122	189	2404	2		
3240	226	81/08/14	0518:10	0521:00	473	231	18957	2		
3241	226	81/08/14	0621:35	0635:45	1327	292	39135	14		M
3242	226	81/08/14	0826:05	0826:40	105	66		2		
12688	226	81/08/14	1009:28	1009:36	21	52	87	13		NS,GB
3243	226	81/08/14	1320:05	1320:25	35	94		2		
3244	226	81/08/14	1547:30	1548:00	70	79		2		
3245	226	81/08/14	1823:35	1825:10	103	287	5436	2	3257	EN
3246	226	81/08/14	2309:20	2310:30	73	129	1187	2		EN
3247	227	81/08/15	0125:45	0127:20	130	77		2		
3248	227	81/08/15	0136:30	0137:55	356	135	8726	5	3257	
3249	227	81/08/15	0255:50	0256:30	111	115	2310	2		M
3250	227	81/08/15	0640:35	0645:20	438	212	23391	2		
3251	228	81/08/16	1725:15	1727:30	229	322	17318	5	3257	M
3252	228	81/08/16	1934:40	1935:55	198	69		2		
3253	228	81/08/16	2234:25	2235:15	190	85		2		
3254	228	81/08/16	2349:00	2349:50	175	85		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3255	229	81/08/17	0024:25	0025:25	95	78		4		AX
3256	229	81/08/17	0250:20	0251:40	462	1110	62131	8	3257	M
3257	229	81/08/17	1349:35	1350:15	120	88		2		
3258	229	81/08/17	2331:40	2332:45	155	88		2		
3259	230	81/08/18	0504:10	0504:45	292	114	4968	2		
3260	230	81/08/18	0640:15	0641:00	190	72		2		
3261	230	81/08/18	1115:30	1117:05	216	495	11714	5		M
3262	230	81/08/18	1121:35	1121:45	35	74		2		
3263	230	81/08/18	1614:15	1614:55	75	78		2		
3264	230	81/08/18	1741:25	1741:55	115	61		2		
3265	231	81/08/19	0322:10	0323:05	105	76		2		
3266	231	81/08/19	1238:50	1239:05	40	69		2		
3267	231	81/08/19	1246:05	1251:55	697	163	21469	2		
3268	231	81/08/19	1551:05	1551:20	50	83		2		
3269	231	81/08/19	2136:25	2138:00	280	127	8488	6		
3270	232	81/08/20	0225:35	0226:30	183	118	2892	2		
3271	232	81/08/20	0415:25	0416:00	155	69		2		
3272	232	81/08/20	1224:55	1225:20	35	75		2		
3273	232	81/08/20	1327:45	1328:05	61	119	1201	2		M
3274	232	81/08/20	1553:45	1554:40	148	185	2969	2		
3275	232	81/08/20	1634:25	1635:05	90	61		2		
3276	232	81/08/20	1845:55	1847:35	226	168	10771	2		
3277	232	81/08/20	2032:25	2033:05	40	83		2		
3278	232	81/08/20	2347:30	2349:25	203	169	3386	6		
3279	233	81/08/21	0057:05	0057:40	57	117	1121	2		
3280	233	81/08/21	0212:45	0213:40	196	923	32068	4		M
3281	233	81/08/21	0410:55	0411:55	75	79		2		
3282	233	81/08/21	0433:15	0434:45	267	373	12178	4		FS
3283	233	81/08/21	0720:55	0721:55	124	113	2179	2		M
3284	233	81/08/21	0853:05	0853:05	838	530	1.16E+05	8		M ,SA
3285	233	81/08/21	1212:00	1212:25	105	75		2		
3286	233	81/08/21	1221:50	1222:10	50	65		2		
3287	233	81/08/21	1627:25	1627:35	179	1486	16666	6	3266	FS
3288	233	81/08/21	1714:00	1715:10	122	122	2384	2		
3289	233	81/08/21	1722:35	1724:50	195	62		2	3266	
3290	233	81/08/21	2122:40	2123:15	85	85		2		
3291	233	81/08/21	2125:30	2126:15	70	69		2		
3292	233	81/08/21	2312:35	2314:10	190	67		2		
3293	233	81/08/21	2338:05	2342:30	305	72	3247	3		AX
3294	234	81/08/22	0111:15	0112:15	70	97		2		ND
3295	234	81/08/22	0241:45	0243:15	129	140	3322	3		
3296	234	81/08/22	0358:15	0359:40	150	96		2		
3297	234	81/08/22	0732:50	0734:10	125	92		2		
3298	234	81/08/22	0846:30	0846:40	25	157	509	2		
3299	234	81/08/22	1211:55	1212:55	90	85		2		
3300	234	81/08/22	1442:40	1443:45	190	107	1567	2		
3301	234	81/08/22	1453:50	1455:10	93	155	4717	2		ES
3302	235	81/08/23	0229:00	0229:35	55	84		2		
3303	235	81/08/23	0851:50	0853:55	140	70		2		
3304	235	81/08/23	1531:45	1532:00	30	102	682	2		
3305	235	81/08/23	2055:10	2057:15	651	193	27294	6		AX
3306	235	81/08/23	2116:45	2117:35	115	57		2		
3307	235	81/08/23	2141:20	2142:35	130	73		2		
3308	235	81/08/23	2231:10	2235:45	872	238	85460	5		AX
3309	235	81/08/23	2310:25	2322:45	896	420	81300	11		
3310	236	81/08/24	0044:50	0101:20	1305	592	1.29E+05	15		M ,AX
3311	236	81/08/24	0147:00	0149:50	333	143	9666	4		AX
3312	236	81/08/24	0233:34	0233:45	35	79		2		
3313	236	81/08/24	0325:25	0326:00	122	344	13830	4		
3314	236	81/08/24	1004:05	1004:45	73	115	1786	2		SA
3315	236	81/08/24	1907:20	1909:45	456	145	15389	6		
3316	236	81/08/24	2045:45	2047:00	615	365	37281	5		
3317	236	81/08/24	2129:30	2130:25	150	76		4		
3318	236	81/08/24	2228:15	2231:00	265	89	14514	2		
3319	236	81/08/24	2307:10	2313:30	569	96	8133	9		
3320	237	81/08/25	0039:00	0039:40	65	99		2		
3321	237	81/08/25	0513:05	0513:55	120	145	4582	2		DG
3322	237	81/08/25	0717:30	0717:45	85	93		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3323	237	81/08/25	1319:50	1320:15	60	76		2		
3324	237	81/08/25	1942:45	1943:15	85	77		2		
3325	237	81/08/25	2044:35	2045:30	145	71		3		
3326	237	81/08/25	2119:30	2120:40	120	84		5		
3327	237	81/08/25	2220:50	2222:20	193	409	23498	6		M ,AX
3328	237	81/08/25	2257:20	2258:45	124	136	5289	5		AX
3329	237	81/08/25	2302:50	2304:35	226	122	7222	14		AX
3330	238	81/08/26	0043:20	0044:30	180	79		14		AX
3331	238	81/08/26	0332:05	0337:15	649	112	14426	2	3284	
3332	238	81/08/26	1013:30	1013:45	30	73		14		
3333	238	81/08/26	1751:15	1751:30	73	208	1922	2		
3334	238	81/08/26	2026:20	2027:50	558	165	30909	5		AX
3335	238	81/08/26	2106:05	2114:25	598	156	10946	2		
3336	238	81/08/26	2121:30	2123:35	191	120	4613	2		
3337	238	81/08/26	2207:50	2210:00	291	253	27945	5		AX
3338	239	81/08/27	0303:50	0304:25	126	104	1754	2		
3339	239	81/08/27	0449:45	0452:45	454	182	20804	2		
3340	239	81/08/27	0458:40	0459:55	200	184	8548	4		
3341	239	81/08/27	0826:10	0826:35	68	111	723	2		
3342	239	81/08/27	1315:00	1315:25	80	75		2		
3343	239	81/08/27	1726:35	1726:45	35	131	347	2		
3344	239	81/08/27	1755:40	1756:05	75	58		2		
3345	239	81/08/27	1859:50	1900:35	85	59		2		
3346	239	81/08/27	2213:25	2214:05	100	148	5001	2		ND
3347	240	81/08/28	0013:50	0015:45	170	69		2		
3348	240	81/08/28	0112:55	0118:45	382	69	3324	5		AX
3349	240	81/08/28	0136:45	0137:40	110	129	3481	5		
3350	240	81/08/28	0145:45	0146:40	120	72		2		
3351	240	81/08/28	0257:00	0257:25	45	63		2		
3352	240	81/08/28	0334:45	0335:20	52	170	2924	2		
3353	240	81/08/28	0507:00	0507:10	30	72		2		
3354	240	81/08/28	0750:30	0751:10	60	182	2420	4		
3355	240	81/08/28	1112:55	1113:10	40	77		2		
3356	240	81/08/28	1214:45	1214:55	127	268	5645	4		SN
3357	240	81/08/28	1350:05	1350:15	112	117	1550	2		
3358	240	81/08/28	1408:25	1409:30	130	81		2		
3359	240	81/08/28	1424:15	1425:55	626	76	5230	2		
3360	240	81/08/28	1724:10	1724:45	130	66		2		
3361	240	81/08/28	1836:25	1841:25	703	159	25218	2		
3362	240	81/08/28	1852:20	1852:50	60	65		2	3300	
3363	240	81/08/28	1922:55	1923:40	146	599	11124	5	3287	
3364	240	81/08/28	2017:05	2017:55	95	72		2		
3365	240	81/08/28	2028:45	2029:25	204	438	4986	5		
3366	240	81/08/28	2035:50	2036:30	60	181	1533	2		
3367	240	81/08/28	2054:20	2056:10	190	74		9		AX
3368	240	81/08/28	2149:35	2150:40	134	232	9721	7		
3369	240	81/08/28	2228:30	2231:55	547	81	5085	4		
3370	241	81/08/29	0244:00	0244:20	65	62		2		
3371	241	81/08/29	0452:45	0454:10	180	251	6769	3		
3372	241	81/08/29	0633:40	0643:10	612	120	3361	2		EN
3373	241	81/08/29	0751:40	0752:35	95	106	1805	2		
3374	241	81/08/29	0758:25	0759:45	167	249	2777	4		
3375	241	81/08/29	1056:40	1058:15	197	143	1659	2		
3377	241	81/08/29	1106:25	1106:35	50	56		2		
3376	241	81/08/29	1303:10	1304:30	163	1378	25853	5		M ,FS
3378	241	81/08/29	1535:30	1537:30	195	84		2		
3379	241	81/08/29	1554:25	1555:05	65	94		2		
3380	241	81/08/29	1857:10	1857:25	115	63		2		
3381	241	81/08/29	2016:15	2023:50	2730	139	51489	15	3307	
3382	241	81/08/29	2143:35	2143:40	30	78		2		
3383	241	81/08/29	2218:35	2225:10	615	177	31426	15		
3384	242	81/08/30	0119:00	0120:25	667	376	33184	5	3284	M
3385	242	81/08/30	0231:45	0233:55	223	105	3866	2		
3386	242	81/08/30	0306:00	0306:10	70	93		2		
3387	242	81/08/30	0312:45	0314:55	150	85		2		
3388	242	81/08/30	0907:25	0909:55	349	3118	2.11E+05	10	3310	M ,FS
3389	242	81/08/30	0926:45	0927:35	105	76		2		
3390	242	81/08/30	1254:45	1255:10	135	93		3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6527	242	81/08/30	1337:21	1340:56	398	759	60389	2		M ,I
3391	242	81/08/30	1543:10	1543:30	55	69		2		
3392	242	81/08/30	1544:40	1545:05	85	82		2		
3393	242	81/08/30	1605:40	1606:00	35	72		2		
3394	242	81/08/30	1849:05	1849:55	301	463	18013	4	3298	
3395	242	81/08/30	2014:05	2014:20	39	123	1218	3		
3396	242	81/08/30	2031:30	2034:40	427	65	3465	2		
3397	242	81/08/30	2202:00	2202:45	131	230	2584	4		
3398	242	81/08/30	2211:20	2215:20	475	84	7552	4		
3399	242	81/08/30	2357:20	2358:10	98	137	1870	3		
3400	243	81/08/31	0048:30	0049:30	85	92		2		
3401	243	81/08/31	0104:40	0104:55	97	213	2478	4		
3402	243	81/08/31	0107:35	0108:00	151	227	2541	4		
3403	243	81/08/31	0111:25	0112:00	143	229	4692	3		
3404	243	81/08/31	0117:15	0118:40	248	365	11606	5		
3405	243	81/08/31	0543:15	0545:55	200	100	3362	2		
3406	243	81/08/31	0548:35	0549:30	187	73		2		
3407	243	81/08/31	0722:25	0723:20	413	1108	83427	5	3310	M ,FS
3408	243	81/08/31	0911:40	0912:10	139	143	3103	2		
3409	243	81/08/31	1350:25	1354:35	700	1017	1.55E+05	4	3287	M ,DG
3410	243	81/08/31	1508:35	1508:50	30	56		2		
3411	243	81/08/31	1539:55	1540:25	70	77		2		
3412	243	81/08/31	1809:50	1810:05	391	133	8165	2	3310	SN,AX
3413	243	81/08/31	1949:10	1950:20	226	170	8335	3		AX
3414	244	81/09/01	0401:35	0402:05	80	294	4138	3		
3415	244	81/09/01	0539:20	0542:05	304	483	18253	2	3310	
3416	244	81/09/01	1649:05	1652:35	295	92	4353	2		
3417	245	81/09/02	0346:30	0347:15	150	75		2		
3418	245	81/09/02	0534:05	0534:45	202	1098	32671	5		M ,FS
3419	245	81/09/02	0549:15	0550:30	140	68		2		
3420	245	81/09/02	0846:30	0847:25	140	94		2		
3421	245	81/09/02	1814:05	1815:10	65	73		2		
3422	245	81/09/02	2004:45	2007:30	319	88	3886	10		
3423	246	81/09/03	0411:40	0412:25	80	68		2		
3424	246	81/09/03	0907:20	0907:35	30	60		2		
3425	246	81/09/03	1518:05	1518:15	39	120	883	2		
3426	246	81/09/03	1612:35	1613:05	50	64		2		
3427	246	81/09/03	1639:20	1640:55	237	109	4856	2		
3428	246	81/09/03	2014:05	2015:00	75	79		2		
3429	246	81/09/03	2129:30	2129:55	53	341	1924	4	3300	FS
3430	246	81/09/03	2255:50	2257:40	1432	4869	8.98E+05	6	3310	
3431	247	81/09/04	1253:20	1253:45	60	97		2		
3432	247	81/09/04	1559:25	1559:45	180	448	7557	4		
3433	248	81/09/05	0021:00	0021:20	60	72		2		
3434	248	81/09/05	0343:15	0343:40	45	100	1383	2		
3435	248	81/09/05	0500:50	0501:05	25	99		2		
3436	248	81/09/05	0538:20	0538:50	70	73		2		
3437	248	81/09/05	0659:20	0659:50	60	1314	12884	9	3317	
3438	248	81/09/05	0706:25	0706:55	134	494	13240	8		
6530	248	81/09/05	0814:02	0832:43	1933	2078	1.42E+05	5	3317	I ,FS
3439	248	81/09/05	0949:00	0950:15	170	87		2		
3440	248	81/09/05	0953:45	0954:05	45	58		2		
3441	248	81/09/05	1001:10	1002:10	140	64		2		
3442	248	81/09/05	1027:50	1028:50	84	360	6664	2		
3443	248	81/09/05	1109:45	1111:15	148	127	2961	2		
3444	248	81/09/05	1118:45	1119:10	185	68		2		
3445	248	81/09/05	1150:55	1151:30	88	111	857	2		
3446	248	81/09/05	1556:35	1557:15	85	67		2		
3447	248	81/09/05	1607:20	1608:10	183	336	9623	4		
3448	248	81/09/05	1901:30	1902:00	900	430	76542	3	3300	SN
3449	248	81/09/05	2041:40	2042:00	50	103	1102	2		
3450	248	81/09/05	2058:50	2059:15	81	220	5360	3		
3451	248	81/09/05	2114:10	2114:25	27	165	974	2		
3452	248	81/09/05	2116:20	2116:30	35	73		2		
3453	248	81/09/05	2123:35	2124:40	139	140	2672	2		
3454	248	81/09/05	2238:10	2238:45	220	140	3293	2		
3455	248	81/09/05	2358:50	0001:30	525	2848	2.97E+05	8	3300	M
3456	249	81/09/06	0316:20	0316:30	26	292	1425	4		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3457	249	81/09/06	0502:05	0502:10	28	157	450	2		
6531	249	81/09/06	0754:09	0754:47	56	120	1949	2		I ,SA
6532	249	81/09/06	0841:11	0842:21	103	78		2		I
3458	249	81/09/06	1007:50	1008:35	75	84		2		
12689	249	81/09/06	1156:56	1156:57	14	58	185	14		NS,GB
3459	249	81/09/06	1246:20	1249:35	209	156	2187	2		
3460	249	81/09/06	1624:40	1624:50	15	58		2		
3461	249	81/09/06	1626:30	1627:05	65	54		2		
3462	249	81/09/06	1733:10	1733:35	35	77		2		
3463	249	81/09/06	1812:30	1812:45	434	92	8026	5		EN
3464	249	81/09/06	1905:35	1906:00	158	149	2352	2		
3465	249	81/09/06	1935:10	1935:40	139	130	3013	2		
3466	249	81/09/06	2102:00	2109:45	1070	1348	1.84E+05	5	3317	
3467	249	81/09/06	2353:10	2353:35	72	1551	20789	9	3317	M ,FS
3468	250	81/09/07	0006:15	0011:20	1080	3060	4.68E+05	4	3317	
3469	250	81/09/07	0118:40	0120:40	223	2408	67546	4		M ,FS
3470	250	81/09/07	0124:45	0125:50	116	109	2073	2		
3471	250	81/09/07	0155:30	0155:55	30	71		2		
3472	250	81/09/07	0203:15	0203:40	112	838	13564	5	3317	FS
3473	250	81/09/07	0310:40	0312:55	1179	106	18062	2	3300	
3474	250	81/09/07	0500:40	0501:05	58	254	1620	4		
3475	250	81/09/07	0503:40	0503:55	35	91		2		
3476	250	81/09/07	0509:10	0511:40	984	25878	1.39E+06	14	3317	
3477	250	81/09/07	0639:45	0645:50	654	139	5102	2		
6536	250	81/09/07	0956:52	0957:11	26	63		2		I
3478	250	81/09/07	1134:55	1136:15	496	824	39966	4		M
3479	250	81/09/07	1256:25	1257:00	120	63		2		
3480	250	81/09/07	1404:45	1405:45	79	202	1335	3		
3481	250	81/09/07	1416:05	1416:55	135	80		2		
3482	250	81/09/07	1444:10	1446:50	325	370	9778	3		
3483	250	81/09/07	1715:55	1716:20	55	59		2		
3484	250	81/09/07	2054:15	2057:00	464	262	25514	2	3317	
3485	250	81/09/07	2222:25	2223:20	455	8504	4.14E+05	13	3317	M
3486	251	81/09/08	0016:05	0016:50	158	166	1996	2		
3487	251	81/09/08	0338:20	0339:00	156	162	3451	2		
3488	251	81/09/08	0433:55	0434:05	30	78		2		
3489	251	81/09/08	0450:05	0450:35	40	75		2		
3490	251	81/09/08	0452:20	0454:05	485	182	16085	2		
3491	251	81/09/08	0624:55	0625:05	36	115	550	2		
3492	251	81/09/08	0626:15	0626:35	45	86		2		
3493	251	81/09/08	1055:35	1055:55	45	338	2705	4		
3494	251	81/09/08	1226:30	1227:40	125	60		2		
3495	251	81/09/08	1535:25	1536:15	277	331	12758	2		ND
3496	251	81/09/08	1700:00	1700:40	866	414	54251	3	3317	SN
3497	251	81/09/08	1727:05	1728:00	123	314	9038	3		
3498	251	81/09/08	1743:10	1743:30	60	75		2		
3499	251	81/09/08	1901:15	1901:45	60	80		2		
3500	251	81/09/08	1919:10	1919:35	55	72		2		
3501	251	81/09/08	2027:35	2028:35	96	127	1007	2		
3502	251	81/09/08	2031:35	2032:05	55	73		2		
3503	251	81/09/08	2322:15	2322:55	95	377	6066	4		
3504	251	81/09/08	2331:50	2332:40	102	163	2742	3		
3505	251	81/09/08	2337:15	2338:20	145	66		2		
3506	252	81/09/09	0113:30	0114:05	218	1020	37518	4	3317	M
3507	252	81/09/09	0146:10	0146:40	55	76		2		
12690	252	81/09/09	0423:27	0423:28	18	45	5			NS,GB
3508	252	81/09/09	0506:45	0506:55	45	98		2		
3509	252	81/09/09	0727:05	0731:15	486	321	19102	3		
3510	252	81/09/09	1100:15	1100:25	80	84		2		
3511	252	81/09/09	1358:55	1359:10	50	68		2		
3512	252	81/09/09	1551:00	1551:25	60	68		2		
3513	252	81/09/09	2024:30	2024:35	10	100	300	2		EW
3514	252	81/09/09	2032:50	2035:30	220	381	10676	3		EW
3515	252	81/09/09	2206:05	2208:40	973	400	59583	3	3317	EW
3516	252	81/09/09	2350:40	2350:55	45	66		2		EW
3517	252	81/09/09	2355:30	0000:20	577	170	12250	2		EW
3518	253	81/09/10	0300:40	0302:40	210	74		2		EW
3519	253	81/09/10	0557:30	0558:40	80	70		2		EW

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	6540	253	81/09/10	0726:37	0728:25	304	3597	97018	8	3310	EW
	6541	253	81/09/10	0758:52	0759:12	46	60		2		I
	3520	253	81/09/10	0935:35	0940:45	610	28539	1.42E+06	11	3317	EN
	3521	253	81/09/10	1054:20	1055:15	80	61		2		
	3522	253	81/09/10	1336:10	1336:25	30	93		2		
	3523	253	81/09/10	1346:10	1347:40	315	94	41014	2		
	3524	253	81/09/10	1838:40	1842:55	471	78	4314	4		
	3525	254	81/09/11	0040:10	0045:55	887	102	4729	2		
	3526	254	81/09/11	0114:55	0116:00	179	416	14450	3		
	3527	254	81/09/11	0130:00	0131:45	140	70		2		
	3528	254	81/09/11	0712:30	0713:50	146	508	12353	4		M
	3529	254	81/09/11	0734:40	0734:50	35	65		2		
	3530	254	81/09/11	0752:10	0753:50	297	819	27286	4		
	3531	254	81/09/11	1014:10	1018:45	535	543	36127	3		M
	3532	254	81/09/11	1213:30	1214:55	195	71		2		
	3533	254	81/09/11	1335:20	1337:20	165	65		3		
	3534	254	81/09/11	1411:00	1414:00	487	60		4		SA
	3535	254	81/09/11	1515:30	1517:15	170	75		3		
	3536	254	81/09/11	1647:50	1649:15	140	73		5		
	3537	254	81/09/11	2128:05	2128:45	100	64		2		
	3538	254	81/09/11	2132:05	2132:50	155	120	1985	2		
	3539	254	81/09/11	2139:25	2140:10	85	112	1179	2		
	3540	254	81/09/11	2157:55	2158:00	11	315	1217	4		
	3541	254	81/09/11	2158:45	2159:05	50	86		2		
	3542	254	81/09/11	2310:15	2311:20	486	7554	4.14E+05	8		M
	3543	255	81/09/12	0037:35	0038:35	136	113	1429	2		
	3544	255	81/09/12	0046:00	0046:40	166	452	12195	3		
	3545	255	81/09/12	0059:40	0100:15	55	65		2		
	3546	255	81/09/12	0344:15	0344:40	90	64		2		
	3547	255	81/09/12	0521:15	0531:45	838	157	6890	3		
	3548	255	81/09/12	0708:25	0709:25	201	171	7644	2		
	3549	255	81/09/12	0718:50	0721:00	325	102	7339	2		
	3550	255	81/09/12	0728:30	0728:45	38	179	1102	2		
	3551	255	81/09/12	0739:10	0740:55	140	86		2		
	3552	255	81/09/12	1005:30	1005:45	41	127	468	2		
	3553	255	81/09/12	1151:05	1158:35	677	108	10304	2		
	3554	255	81/09/12	1228:25	1230:55	290	134	5038	2		
	3555	255	81/09/12	1315:00	1315:55	100	87		2		
	3556	255	81/09/12	1525:30	1525:40	75	76		2		
	3557	255	81/09/12	1800:30	1801:05	90	60		2		
	3558	255	81/09/12	2321:50	2322:15	50	94		2		
	3559	255	81/09/12	2324:50	2325:05	160	84		2		
	3560	256	81/09/13	0047:25	0048:10	72	106	3019	2		
	3561	256	81/09/13	0959:55	1001:00	349	111	2793	2		
	3562	256	81/09/13	1039:45	1040:25	65	90		2		
	3563	256	81/09/13	1316:15	1317:20	175	68		4		
	3564	256	81/09/13	1503:15	1503:20	15	81		2		
	3565	256	81/09/13	1644:05	1644:30	50	56		2		
	3566	256	81/09/13	1943:50	1944:05	45	92		2		
	3567	256	81/09/13	1946:45	1947:10	155	117	2738	2		
*	3568	257	81/09/14	0054:30	0054:55	35	79		2		
*	3569	257	81/09/14	0715:50	0716:25	114	155	2168	2		
*	3570	257	81/09/14	1004:40	1005:00	50	66		2		
*	3571	257	81/09/14	1136:35	1137:00	50	74		2		
*	3572	257	81/09/14	1154:30	1155:30	175	61		2		
*	3573	257	81/09/14	1305:55	1307:15	247	120	5587	5		
*	3574	257	81/09/14	2242:35	2243:30	85	74		2		
*	3575	257	81/09/14	2244:40	2245:35	100	98		2		
*	3576	257	81/09/14	2254:20	2258:05	351	450	29691	4		FS
*	3577	258	81/09/15	0007:25	0008:05	170	87		2		
*	3578	258	81/09/15	0038:40	0049:15	1265	393	26535	5		EN
*	3579	258	81/09/15	0845:20	0845:40	64	103	608	2		
*	3580	258	81/09/15	1258:15	1258:30	70	84		7		
*	3581	258	81/09/15	1342:25	1343:10	95	90		2		
	6623	258	81/09/15	1427:23	1427:32	71	95		2		I
*	3582	258	81/09/15	1934:05	1934:40	135	70	646	2		
*	3583	258	81/09/15	2101:10	2102:00	181	152	4401	2		M
*	3584	258	81/09/15	2110:15	2114:40	931	28212	3.10E+06	15	3317	EN,FS

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	3585	259	81/09/16	0040:15	0040:35	80	98		2		
*	3586	259	81/09/16	0134:35	0135:40	185	90		2		
*	3587	259	81/09/16	0140:25	0141:25	165	73		2		
*	3588	259	81/09/16	0636:00	0637:45	190	77		2		
*	3589	259	81/09/16	1104:10	1108:15	306	365	14734	10		M
*	3590	259	81/09/16	1332:05	1334:15	237	244	7096	3		
*	3591	259	81/09/16	1609:50	1610:10	109	135	2198	2		
*	3592	259	81/09/16	1745:20	1747:00	613	68	5080	2		
*	3593	260	81/09/17	0128:30	0129:35	126	177	2980	2		
*	3594	260	81/09/17	0136:55	0137:45	170	101	2026	2		
*	3595	260	81/09/17	0321:30	0321:50	95	67		2		
*	3596	260	81/09/17	0434:35	0435:10	80	73		2		
*	3597	260	81/09/17	0523:20	0523:40	46	155	1540	3		
*	3598	260	81/09/17	0643:10	0645:55	515	72	2212	2		
*	3599	260	81/09/17	1055:20	1056:50	242	163	10714	6		
*	3600	260	81/09/17	1236:20	1238:15	205	76		2		
*	3601	260	81/09/17	1246:50	1247:05	60	65		2		
*	3602	260	81/09/17	1417:05	1417:20	25	65		2		
*	3603	260	81/09/17	1900:50	1901:00	40	60		2		
*	3604	260	81/09/17	2355:25	2355:45	55	153	1302	2		
*	3605	261	81/09/18	0129:10	0132:25	490	1189	38601	5	3344	
*	3606	261	81/09/18	0332:45	0333:25	170	95		2		
*	3607	261	81/09/18	0444:50	0445:03	176	129	3305	2		
*	3608	261	81/09/18	1413:40	1415:20	246	137	3464	2		
*	3609	261	81/09/18	1732:25	1733:10	80	162	2108	2		
*	3610	262	81/09/19	0312:10	0313:15	602	379	24595	5		
*	3611	262	81/09/19	0412:30	0413:00	50	60		2		
*	3612	262	81/09/19	0550:10	0551:05	513	1954	81151	9	3344	M
*	3613	262	81/09/19	0602:40	0603:05	50	96		2		AX
*	3614	262	81/09/19	1033:35	1037:00	369	154	14723	8		AX
*	3615	262	81/09/19	1215:57	1217:05	230	85		4		
*	3616	262	81/09/19	1438:40	1440:00	243	105	3926	2		SA
*	3617	263	81/09/20	1025:00	1027:40	255	109	7417	5		
*	3618	263	81/09/20	1117:00	1117:15	30	75		2		
	3619	264	81/09/21	1054:05	1054:55	210	110	3492	2		
	3620	265	81/09/22	0834:35	0844:20	1831	379	68298	7	3359	M
	3621	266	81/09/23	0556:25	0557:25	140	76		2		
	3622	266	81/09/23	0714:55	0715:40	181	336	5397	4		
	6721	269	81/09/26	1010:05	1011:30	227	324	14547	3		I
	12691	269	81/09/26	1834:56	1834:58	6	80	81	13		NS,GB
	3623	271	81/09/28	2358:20	2359:10	155	70		2		
	3624	272	81/09/29	0119:20	0119:30	30	57		2		
	3625	272	81/09/29	0121:00	0121:30	95	61		2		
	6722	273	81/09/30	0008:31	0009:00	87	65		2		
	3626	273	81/09/30	1711:40	1712:35	195	94		2		
	12692	273	81/09/30	1743:34	1743:37	12	54	85			NS,GB
	3627	273	81/09/30	1846:05	1846:40	58	126	929	3		
	3628	273	81/09/30	2001:20	2001:40	30	68		2		
	3629	273	81/09/30	2213:40	2213:50	30	90		2		
	3630	274	81/10/01	0410:30	0411:20	105	60		2		
	3631	274	81/10/01	1737:30	1738:25	75	97		2		
	3632	274	81/10/01	1949:55	1957:40	860	229	42074	3	3378	
	3633	274	81/10/01	2358:35	2359:05	50	64		2		
	3634	275	81/10/02	0728:30	0729:00	50	74		2		
	3635	275	81/10/02	1630:25	1635:10	521	405	33117	2		M
	6724	275	81/10/02	2303:33	2303:43	26	76		2		
	3636	276	81/10/03	2005:40	2006:20	100	65		2		
	3637	277	81/10/04	0057:40	0057:45	20	52		2		
	3638	277	81/10/04	0059:30	0059:40	60	52		2		
	3639	277	81/10/04	0101:10	0101:45	85	53		2		
	3640	277	81/10/04	0706:15	0706:30	40	67		5		
	3641	278	81/10/05	0151:15	0152:05	125	95		2		
	3642	278	81/10/05	0155:30	0156:30	100	73		2		
	3643	278	81/10/05	0509:00	0509:00	183	112	3004	5		SA
	3644	278	81/10/05	0551:50	0552:25	120	54		2		
	3645	278	81/10/05	2233:50	2235:00	150	67		2		
	3646	279	81/10/06	0320:25	0321:30	195	85		6		
	12693	279	81/10/06	0513:22	0513:23	7	140	184	13		NS,GB

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3647	279	81/10/06	2044:50	2046:20	235	116	5977	4		
3648	279	81/10/06	2220:55	2221:35	85	88		3		
3649	280	81/10/07	1233:40	1234:25	352	245	13450	3		M ,ES
3650	280	81/10/07	1329:05	1329:25	115	78		2		
3651	280	81/10/07	1632:50	1635:55	350	346	20655	3		M
3652	280	81/10/07	1802:00	1808:40	773	114	16092	2	3388	
3653	280	81/10/07	1949:40	1950:00	35	76		2		
3654	280	81/10/07	1950:53	1951:15	70	85		2		
3655	280	81/10/07	2030:20	2036:25	645	118	33716	4		
3656	280	81/10/07	2113:25	2113:50	90	82		2		
3657	280	81/10/07	2123:45	2124:00	35	59		2		
3658	280	81/10/07	2231:00	2232:00	206	344	10722	4		
3659	280	81/10/07	2241:35	2301:35	6830	33669	1.05E+07	15	3390	M ,ES,DG
3660	281	81/10/08	0130:00	0130:55	376	90	4742	2		
3661	281	81/10/08	0139:40	0141:45	190	64		2		
3662	281	81/10/08	0448:05	0448:15	20	61		2		
3663	281	81/10/08	0457:55	0458:05	35	86		2		
3664	281	81/10/08	0636:25	0636:40	40	68		2		
3665	281	81/10/08	0644:40	0645:15	90	72		2		
3666	281	81/10/08	0806:40	0807:00	53	195	1819	3		
3667	281	81/10/08	1136:35	1137:20	155	99		2		
3668	281	81/10/08	1141:05	1142:40	169	132	2979	2		
3669	281	81/10/08	1223:05	1223:15	30	94		2		
3670	281	81/10/08	1304:25	1304:45	45	76		2		
3671	281	81/10/08	2020:55	2022:50	290	140	11230	5		AX
3672	281	81/10/08	2242:50	2244:05	155	72		4		
3673	282	81/10/09	0006:50	0007:10	85	80		2		
3674	282	81/10/09	0431:10	0431:40	90	85		2		
3675	282	81/10/09	0758:40	0758:50	29	255	992	4		FS
3676	282	81/10/09	1301:50	1304:10	296	122	5604	2		
3677	282	81/10/09	1531:45	1532:45	133	166	3195	3		
3678	282	81/10/09	1912:05	1913:40	164	118	2944	2		
3679	282	81/10/09	2009:25	2011:55	562	170	22719	6		
3680	282	81/10/09	2154:20	2156:35	330	70		2		
3681	282	81/10/09	2232:15	2233:40	215	75		5		
3682	283	81/10/10	0126:55	0127:25	73	133	1494	2		
3683	283	81/10/10	0928:20	0928:40	40	84		2		
3684	283	81/10/10	0935:10	0935:45	316	768	13433	4		M
3685	283	81/10/10	1247:30	1248:35	516	11434	3.10E+05	7	3390	M ,FS
3686	283	81/10/10	1422:55	1424:30	383	1180	31861	4	3390	M ,FS
3687	283	81/10/10	1517:55	1518:30	120	69		2		
3688	283	81/10/10	1521:35	1522:15	65	81		2		
3689	283	81/10/10	1600:40	1600:55	45	66		2		
3690	283	81/10/10	1700:50	1701:45	75	95		2		
3691	283	81/10/10	1704:20	1704:30	86	239	2346	2		
3692	283	81/10/10	1721:30	1721:40	120	66		2		
3693	283	81/10/10	1737:25	1738:05	100	61		2		
3694	283	81/10/10	1958:45	2000:55	621	112	10672	5		
3695	283	81/10/10	2042:40	2043:55	150	109	3422	2		
3696	283	81/10/10	2142:50	2143:40	292	87	3821	2		
3697	283	81/10/10	2310:40	2311:50	151	246	11171	5		AX
3698	283	81/10/10	2341:20	2341:30	70	69		2		
3699	283	81/10/10	2348:30	2350:35	702	190	21826	2		
3700	284	81/10/11	0046:15	0046:50	195	199	7712	7		
3701	284	81/10/11	0053:40	0055:50	170	68		3		
3702	284	81/10/11	0434:20	0434:50	311	280	9766	2		
3703	284	81/10/11	0549:40	0550:00	100	81		2		
3704	284	81/10/11	0731:10	0731:30	80	71		2		
3705	284	81/10/11	0747:00	0748:30	220	185	7668	2		
3706	284	81/10/11	1240:25	1241:05	60	66		2		
3707	284	81/10/11	1248:00	1248:25	65	59		2		
3708	284	81/10/11	1401:35	1401:45	30	90		2		
3709	284	81/10/11	1511:10	1511:50	164	115	2162	2		
3710	284	81/10/11	1552:30	1552:55	171	176	3937	2		
3711	284	81/10/11	1813:55	1814:10	41	109	827	2		
3712	284	81/10/11	1903:05	1903:15	30	67		2		
3713	284	81/10/11	1910:10	1910:30	45	55		2		
6725	284	81/10/11	1947:21	1947:43	61	66		3		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3714	284	81/10/11	2208:00	2215:10	597	174	15038	11		
3715	284	81/10/11	2351:00	2353:03	123	568	27189	14		EN,AX
3716	285	81/10/12	0103:35	0104:20	180	102	2819	2		
3717	285	81/10/12	0227:20	0229:00	648	810	66617	3		
3718	285	81/10/12	0253:10	0253:45	60	69		2		
3719	285	81/10/12	0407:50	0408:30	176	206	4139	2		
3720	285	81/10/12	0426:20	0435:50	1117	7360	2.10E+06	8		M ,EN
3721	285	81/10/12	0550:45	0550:55	57	214	2270	3		
3722	285	81/10/12	0556:30	0557:00	145	64		2		
3723	285	81/10/12	0614:05	0619:15	388	105	7766	2		EN
3724	285	81/10/12	0716:35	0729:45	2306	1572	3.44E+05	5		M ,EN,SA,FS
3725	285	81/10/12	0912:55	0914:30	140	70		2		
3726	285	81/10/12	1034:30	1100:00	1896	12464	2.85E+06	5	3390	M ,EN,SA,FS
3727	285	81/10/12	1141:50	1143:25	110	67		2		
3728	285	81/10/12	1146:45	1147:00	51	123	1007	2		M ,EW
3729	285	81/10/12	1234:55	1235:30	96	119	1669	2		
3730	285	81/10/12	1317:00	1321:20	348	180	4664	2		
3731	285	81/10/12	1413:50	1414:55	180	54		2		
3732	285	81/10/12	1704:15	1704:30	90	98		2		
3733	285	81/10/12	1707:45	1709:45	240	652	21307	2	3390	M
3734	285	81/10/12	1713:40	1714:30	120	101	2609	2		
3735	285	81/10/12	1718:10	1718:50	85	90		2		
3736	285	81/10/12	1803:10	1803:20	80	140	924	2		M
3737	285	81/10/12	1804:55	1805:40	315	1766	39038	4	3390	M ,FS
3738	285	81/10/12	1811:25	1812:15	335	182	6992	2		
3739	285	81/10/12	1827:20	1830:05	200	96		2		
3740	285	81/10/12	1836:55	1837:15	30	87		2		
3741	285	81/10/12	1847:55	1850:15	209	106	2049	2		
3742	285	81/10/12	1859:35	1900:20	65	55		2		
3743	285	81/10/12	1936:25	1945:30	874	186	34344	5		SN
3744	285	81/10/12	1955:55	1956:55	200	62	8649	2		
3745	285	81/10/12	2003:25	2003:35	57	193	1649	2		
3746	285	81/10/12	2006:00	2006:20	40	90		2		
3747	285	81/10/12	2025:55	2026:50	217	357	16147	4		
3748	285	81/10/12	2113:50	2114:00	30	74		2		EW
3749	285	81/10/12	2115:15	2120:05	675	200	39584	5		EW
3750	285	81/10/12	2153:05	2153:45	256	103	4322	2		EW
3751	285	81/10/12	2159:30	2203:30	339	63	1970	2		
3752	285	81/10/12	2210:41	2212:35	149	218	3418	2		EW
3753	285	81/10/12	2256:45	2257:40	70	73		2		EW
3754	285	81/10/12	2323:40	2323:55	45	56		2		EW
3755	285	81/10/12	2342:45	2344:26	120	61		2		EW
3756	286	81/10/13	0024:25	0024:35	125	90		2		EW
3757	286	81/10/13	0034:55	0035:15	60	81		4		EW
3758	286	81/10/13	0041:05	0041:45	95	208	4252	2		EW
3759	286	81/10/13	0047:35	0050:35	244	405	5306	4		FS,EW
3760	286	81/10/13	0103:35	0103:50	60	82		2		EW
3761	286	81/10/13	0108:00	0109:20	226	265	7716	2		EW
3762	286	81/10/13	0250:10	0252:15	234	100	4172	2		EW
3763	286	81/10/13	0404:41	0407:40	195	57		2		
3764	286	81/10/13	0412:25	0412:55	80	68		2		
3765	286	81/10/13	0417:40	0421:35	622	215	41629	2		
3766	286	81/10/13	0535:55	0536:10	35	85		2		
3767	286	81/10/13	0709:30	0710:50	1808	1236	1.73E+05	7	3390	M
3768	286	81/10/13	0853:00	0853:25	130	70		2		
3769	286	81/10/13	1031:20	1032:00	105	67		2		
3770	286	81/10/13	1034:00	1034:15	30	80		2		
3771	286	81/10/13	1034:40	1035:30	145	60		2		
3772	286	81/10/13	1221:30	1222:20	180	74		2		EW
3773	286	81/10/13	1359:55	1400:30	70	388	4603	4		M
3774	286	81/10/13	1628:10	1629:40	150	73		2		
3775	286	81/10/13	1807:35	1810:00	1539	2394	1.61E+05	7	3390	M
3776	286	81/10/13	1949:30	1953:20	636	108	9516	2		
3777	286	81/10/13	2015:00	2015:15	39	106	698	2		
3778	286	81/10/13	2106:10	2109:30	468	220	41715	5		AX
3779	286	81/10/13	2114:00	2115:15	103	153	1839	2		
3780	286	81/10/13	2124:00	2126:05	266	216	8912	2		
3781	286	81/10/13	2157:40	2159:20	170	99		2		AX,EW

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6835	286	81/10/13	2239:10	2248:18	1467	642	59600	4	3403	M ,I
6836	286	81/10/13	2305:52	2307:20	181	651	24248	4		I
6837	286	81/10/13	2310:19	2311:32	245	106	6571	2		I
6838	286	81/10/13	2325:31	2326:14	80	66		2		I
3782	287	81/10/14	0101:55	0102:10	70	71		2		
3805	287	81/10/14	0207:25	0209:00	130	57		2		
3783	287	81/10/14	0350:10	0351:30	344	382	16695	5		M ,FS
3784	287	81/10/14	0404:35	0405:35	116	121	1825	2		
3785	287	81/10/14	0534:15	0535:00	91	110	2065	2		
3786	287	81/10/14	0551:55	0552:00	42	204	2460	4		FS
3787	287	81/10/14	0725:40	0726:55	190	95		2		
3788	287	81/10/14	1040:45	1041:30	105	60		2		
6727	287	81/10/14	1155:42	1155:50	19	89		2		I
6728	287	81/10/14	1202:05	1202:20	39	124	833	2		I
3789	287	81/10/14	1304:10	1304:25	76	167	2883	2		M
3790	287	81/10/14	1326:35	1327:05	145	67		2		
3791	287	81/10/14	1442:30	1442:55	315	616	35103	5	3403	M ,FS
3792	287	81/10/14	1504:50	1505:50	70	73		2		
3793	287	81/10/14	1642:30	1644:20	320	880	14530	5		M
3794	287	81/10/14	1703:20	1706:30	232	44179	3.34E+06	15	3406	EN
3795	287	81/10/14	1743:05	1745:15	200	70		2		
3796	287	81/10/14	1753:00	1753:30	70	72		2		
3797	287	81/10/14	1806:35	1806:50	149	557	10046	5		
3798	287	81/10/14	1918:20	1923:15	518	431	15344	3		
3799	287	81/10/14	1955:30	1957:35	240	62	1837	2		
3800	287	81/10/14	2053:10	2053:50	728	1669	41153	6		FS
3801	287	81/10/14	2134:35	2137:20	611	92	7250	4		
3802	287	81/10/14	2228:40	2229:20	50	73		2		
3803	287	81/10/14	2300:00	2302:00	180	69		2		
3804	287	81/10/14	2305:30	2306:35	115	60		2		
3806	288	81/10/15	0354:55	0355:40	94	314	3635	4		
3807	288	81/10/15	0540:25	0541:15	65	86		2		
3808	288	81/10/15	0706:10	0706:55	66	168	884	2		
3809	288	81/10/15	0715:05	0716:15	125	69		2		
3810	288	81/10/15	0722:50	0723:05	40	86		2		
3811	288	81/10/15	1010:10	1010:35	45	70		2		
3812	288	81/10/15	1113:40	1114:00	50	95		2		
3813	288	81/10/15	1148:20	1149:00	65	77		2		
3814	288	81/10/15	1202:30	1203:10	242	235	14435	2		
3815	288	81/10/15	1247:55	1248:05	20	62		2		
3816	288	81/10/15	1255:05	1255:40	60	129	1431	2		
3817	288	81/10/15	1335:50	1336:30	45	63		2		
3818	288	81/10/15	1557:40	1557:40	174	238	1998	3		SN
3819	288	81/10/15	1604:20	1605:05	76	114	2019	2		
3820	288	81/10/15	1626:50	1627:00	31	142	710	2		
3821	288	81/10/15	1633:25	1633:50	65	98		2		
3822	288	81/10/15	2043:05	2049:10	547	202	26519	6		
3823	288	81/10/15	2125:35	2127:20	197	73		4		
3824	288	81/10/15	2132:15	2132:40	64	142	1334	2		
3825	288	81/10/15	2141:25	2142:15	82	165	1205	2		
3826	288	81/10/15	2230:50	2231:10	165	453	10899	4		M ,FS
3827	288	81/10/15	2302:25	2303:10	208	2799	69158	5	3403	
3828	289	81/10/16	0020:40	0021:10	125	105	2239	2		
3829	289	81/10/16	0144:50	0145:25	65	100	4485	5		
3830	289	81/10/16	0217:35	0218:40	185	79		2		
3831	289	81/10/16	0223:20	0223:30	20	65		2		
3832	289	81/10/16	0227:35	0229:00	100	74		2		
3833	289	81/10/16	0314:00	0315:40	319	207	13554	2		SN
3834	289	81/10/16	0324:40	0324:55	35	72		2		
3835	289	81/10/16	0333:30	0333:55	45	72		2		
3836	289	81/10/16	0349:45	0350:50	200	1096	32935	5	3390	M
3837	289	81/10/16	0353:10	0353:25	108	253	6828	5		M
3838	289	81/10/16	0401:55	0402:30	91	519	6102	5		
3839	289	81/10/16	0527:35	0528:35	110	228	3949	4		
3840	289	81/10/16	0633:50	0636:05	678	1008	83065	4	3403	M
3841	289	81/10/16	0648:00	0649:45	173	103	3404	2		
3842	289	81/10/16	0655:05	0655:35	57	145	971	2		
3843	289	81/10/16	0811:30	0811:45	56	129	730	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3844	289	81/10/16	0827:35	0829:35	449	162	15475	2		
3845	289	81/10/16	0842:05	0843:40	128	227	3168	4		M
3846	289	81/10/16	0845:25	0845:40	115	72		2		
3847	289	81/10/16	1001:55	1002:20	49	150	783	2		
3848	289	81/10/16	1021:15	1023:20	150	81		2		
3849	289	81/10/16	1150:25	1152:50	459	182	64472	2		
3850	289	81/10/16	1236:30	1246:00	579	195	9389	3	3397	M ,ES
3851	289	81/10/16	1732:55	1733:10	175	84		2		
3852	289	81/10/16	1746:55	1748:35	185	56		2		
3853	289	81/10/16	2032:55	2037:25	383	156	5708	6		
3854	289	81/10/16	2048:10	2051:45	383	103	6439	2		
3855	289	81/10/16	2110:10	2110:40	45	64		2		
3856	289	81/10/16	2211:15	2211:45	60	62		2		
3857	289	81/10/16	2216:00	2216:30	85	61		2		
3858	289	81/10/16	2226:20	2232:40	615	96	9328	2	3406	
3859	289	81/10/16	2353:06	2353:27	29	292	1910	15		NS,GB
3860	289	81/10/16	2354:30	2355:50	176	209	6924	2		
3861	290	81/10/17	0150:20	0150:45	73	223	2895	3		
3862	290	81/10/17	0313:50	0314:05	64	1056	7133	4		M ,FS
3863	290	81/10/17	0333:35	0334:15	104	118	5007	2		
3864	290	81/10/17	0501:50	0502:20	120	100	1542	2		
3865	290	81/10/17	0517:05	0517:30	85	77		2		
3866	290	81/10/17	0518:45	0520:05	145	66		2		
3867	290	81/10/17	0955:55	0956:20	89	218	3142	2		
3868	290	81/10/17	1127:40	1128:45	175	83		2		
3869	290	81/10/17	1140:55	1141:40	150	81		2		
3870	290	81/10/17	1443:20	1445:20	268	75		2		
3872	290	81/10/17	1538:35	1539:00	30	314	2720	4		
3871	290	81/10/17	1542:40	1543:20	95	84		2		
3873	290	81/10/17	1613:50	1614:45	250	191	9385	2		
3874	290	81/10/17	1624:25	1625:05	85	74		2		
3875	290	81/10/17	1744:50	1748:20	572	147	18829	2		
3876	290	81/10/17	1926:45	1927:50	125	91		2		
3877	290	81/10/17	2024:10	2024:45	95	70		2		
3878	290	81/10/17	2333:30	2334:25	115	62		2		
3879	290	81/10/17	2355:55	2356:25	137	104	2119	2		
3880	291	81/10/18	0009:55	0010:10	82	539	5339	3		
3881	291	81/10/18	0022:00	0023:10	140	78		2		
3882	291	81/10/18	0205:35	0206:20	137	209	2861	2		
3883	291	81/10/18	0208:55	0209:10	40	60		2		
3884	291	81/10/18	0436:30	0437:05	75	73		2		EW
3885	291	81/10/18	0451:35	0451:55	65	60		2		EW
3886	291	81/10/18	0641:45	0642:10	45	77		2		EW
3887	291	81/10/18	1103:15	1122:55	2382	2021	9.82E+05	11		M ,EN,SA
3889	291	81/10/18	1221:10	1222:20	85	98		2		
3890	291	81/10/18	1601:35	1604:05	321	360	11525	3		
3891	291	81/10/18	1722:10	1722:45	40	65		2		
3892	291	81/10/18	1727:55	1729:20	248	180	4886	2		
3893	291	81/10/18	2011:10	2014:40	375	92	10851	4		
3894	291	81/10/18	2100:10	2100:42	100	62		2		
3895	291	81/10/18	2155:55	2155:57	18	70		2		
3896	292	81/10/19	0101:00	0101:40	85	95		2		
3897	292	81/10/19	0154:30	0154:50	140	97		2		
3898	292	81/10/19	0308:20	0313:00	1282	318	74639	4		
3899	292	81/10/19	0941:05	0941:20	40	199	1363	5		
3900	292	81/10/19	0942:35	0943:25	95	66		2		
3901	292	81/10/19	1207:35	1208:35	180	66		2		
3902	292	81/10/19	1224:45	1225:40	180	79		2		
3903	292	81/10/19	1241:25	1242:40	182	113	1243	2		
3904	292	81/10/19	1245:50	1246:02	30	61		2		
3905	292	81/10/19	1556:25	1557:15	180	97		2		
3906	292	81/10/19	1600:35	1600:50	55	112	1010	2		
3907	292	81/10/19	1852:10	1852:25	60	74		2		
3908	292	81/10/19	1918:00	1918:55	134	306	5864	4		
3909	292	81/10/19	2018:55	2019:10	30	56		2		
3910	292	81/10/19	2034:35	2036:20	178	150	7997	2		
3911	292	81/10/19	2324:20	2326:40	185	79		2		
3912	293	81/10/20	0122:15	0123:25	152	516	8613	5		FS

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3913	293	81/10/20	0148:35	0149:45	105	55		2		
3914	293	81/10/20	0307:20	0307:40	98	190	2559	2		
3915	293	81/10/20	0315:45	0317:05	536	109	14290	2		
3916	293	81/10/20	0438:00	0438:25	80	75		2		
3917	293	81/10/20	0553:05	0553:45	102	378	5776	4		M
3918	293	81/10/20	0732:10	0734:30	172	233	2284	4	3394	FS
3919	293	81/10/20	0740:15	0740:40	45	75		2		
3920	293	81/10/20	0742:00	0742:10	55	92		2		
3921	293	81/10/20	0944:25	0944:50	48	129	1238	4		
3922	293	81/10/20	1203:50	1204:25	65	65		2		
3923	293	81/10/20	1242:05	1242:35	135	146	3343	2		
3924	293	81/10/20	1349:10	1350:10	126	147	1573	4		
3925	293	81/10/20	1419:25	1421:25	832	147	31104	2		
3926	293	81/10/20	1508:15	1510:30	470	90	5277	2		
3927	293	81/10/20	1951:25	1951:30	126	230	9603	6		SN,AX
3928	293	81/10/20	2025:05	2034:00	945	123	31067	5		M
3929	293	81/10/20	2130:50	2131:30	65	89		2		
3930	293	81/10/20	2204:40	2217:55	945	108	16686	8		AX
3931	293	81/10/20	2303:50	2304:25	75	55		2		
3932	293	81/10/20	2313:00	2314:25	170	56		2		
3933	293	81/10/20	2319:35	2321:05	179	173	7076	2		
3934	293	81/10/20	2326:05	2326:30	95	73		2		
3935	294	81/10/21	0045:35	0046:20	90	92		2		
3936	294	81/10/21	0425:55	0427:15	150	70		2		
3937	294	81/10/21	0437:15	0437:50	170	64		2		
3938	294	81/10/21	0613:05	0618:10	809	248	38860	2	3403	EN
3939	294	81/10/21	0739:05	0739:40	1018	531	20225	5		FS
3940	294	81/10/21	0800:10	0800:45	75	70		2		
6832	294	81/10/21	0925:22	0925:49	42	124	3534	2		I
6833	294	81/10/21	0926:45	0927:23	59	64		2		I
3941	294	81/10/21	1320:40	1334:55	1141	83	3657	2	3432	
3942	294	81/10/21	1721:00	1723:20	367	866	33624	5		
6834	294	81/10/21	1852:11	1852:46	159	67		2		I
3943	294	81/10/21	2305:25	2307:10	342	4748	2.61E+05	8	3390	M ,FS
3944	294	81/10/21	2312:25	2316:40	420	82	6074	2		
3945	295	81/10/22	0049:25	0051:25	145	82		2		
3946	295	81/10/22	0109:10	0109:55	85	78		2		
3947	295	81/10/22	0530:45	0531:00	45	94		2		
3948	295	81/10/22	1217:05	1217:45	88	109	2045	2		
3949	295	81/10/22	1222:10	1222:30	155	96		2		
3950	295	81/10/22	1452:10	1453:45	199	762	20180	4		M
3951	295	81/10/22	1501:45	1502:50	160	66		2		
3952	295	81/10/22	2004:45	2005:50	170	63		3		
3953	295	81/10/22	2027:00	2027:20	42	129	3253	2		
3954	295	81/10/22	2146:05	2148:40	190	65		4		
3955	295	81/10/22	2254:50	2255:20	60	82		2		
3956	296	81/10/23	0026:00	0029:55	335	223	7959	2		FS
3957	296	81/10/23	0103:50	0104:30	70	88		2		
3958	296	81/10/23	0238:35	0239:50	207	202	11060	2		
3959	296	81/10/23	1757:05	1759:35	298	126	4145	3		
3960	296	81/10/23	2259:25	2300:00	60	60		2		
3961	297	81/10/24	0547:50	0548:20	60	71		2		
3962	297	81/10/24	1440:05	1440:15	40	67		2		
3963	297	81/10/24	1517:40	1518:10	103	378	6918	4		
3964	297	81/10/24	1824:55	1825:20	45	83		2		
3965	297	81/10/24	2318:10	2318:25	38	117	939	2		
3966	298	81/10/25	0048:35	0049:05	85	81		2		
3967	298	81/10/25	0135:10	0135:30	50	90		2		
3968	298	81/10/25	0315:15	0315:55	50	84		2		
3969	298	81/10/25	1448:25	1449:30	150	327	12543	2		
3970	298	81/10/25	1804:05	1804:20	45	72		2		
3971	300	81/10/27	0945:40	0947:35	244	111	4621	2		
3972	301	81/10/28	0648:35	0649:00	60	65		2		
3973	301	81/10/28	0954:30	0955:05	80	81		2		
3974	301	81/10/28	2051:15	2052:35	155	262	7567	2		ES
3975	301	81/10/28	2338:50	2339:20	75	78		2		
3976	302	81/10/29	1126:15	1126:35	60	71		2		
3977	302	81/10/29	1705:50	1706:05	55	97		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
3978	302	81/10/29	2004:30	2006:10	156	242	2526	2		
6839	302	81/10/29	2355:02	2355:44	57	98		2		I
6840	303	81/10/30	0551:45	0551:59	37	102	1052	2		I
6841	303	81/10/30	1227:07	1228:45	185	264	26081	4		I ,ND
3979	304	81/10/31	0540:10	0541:40	170	70		2		
3980	304	81/10/31	0717:50	0718:10	50	66		2		
6842	304	81/10/31	1154:38	1155:29	152	75		2		I
6843	304	81/10/31	1240:26	1240:57	41	66		2		I
3981	304	81/10/31	1818:05	1818:25	46	177	1348	3		
3982	304	81/10/31	1838:25	1838:40	30	97		2		
6844	304	81/10/31	1943:51	1944:52	87	63		2		I
6845	304	81/10/31	2140:12	2140:17	24	84		2		I
3983	305	81/11/01	0610:15	0611:15	118	152	4912	2		
6846	305	81/11/01	0832:00	0835:44	511	67	2925	2		I
3984	305	81/11/01	0916:35	0917:35	130	64		2		
3985	305	81/11/01	1449:00	1451:40	195	81		2		
3986	305	81/11/01	1629:15	1631:45	570	92	5463	5		AX
3987	305	81/11/01	1642:55	1646:30	346	104	6052	2		
3988	305	81/11/01	1810:10	1813:05	478	2732	78750	10	3432	M ,FS
3989	305	81/11/01	2105:15	2106:05	135	992	8078	5		
3990	305	81/11/01	2108:15	2110:05	220	98	3241	2		
3991	305	81/11/01	2254:45	2255:10	220	1137	18495	9		M
3992	306	81/11/02	0031:55	0032:30	100	88		2		
3993	306	81/11/02	0045:15	0046:15	88	125	1061	2		
3994	306	81/11/02	0151:02	0151:30	60	69		2		
3995	306	81/11/02	0232:00	0232:55	120	62		2		
3996	306	81/11/02	0241:35	0242:05	71	167	621	3		
12694	306	81/11/02	0336:24	0336:28	7	59	59	9		NS,GB
3997	306	81/11/02	0350:00	0350:10	40	61		2		
3998	306	81/11/02	0536:00	0536:30	65	57		2		
3999	306	81/11/02	0722:25	0722:45	50	79		2		
4000	306	81/11/02	0816:40	0818:55	175	83		2		
4001	306	81/11/02	1213:10	1213:50	222	894	17304	5		
4002	306	81/11/02	1500:40	1500:50	45	62		2		
4003	306	81/11/02	1747:30	1748:05	196	75		2		
12695	306	81/11/02	1814:17	1814:20	7	153	148	14		NS,GB
4004	306	81/11/02	2125:25	2127:05	272	146	5421	2		
4005	306	81/11/02	2254:05	2255:05	78	124	1730	2		M
4006	306	81/11/02	2257:10	2257:45	55	115	590	2		
4007	307	81/11/03	0408:55	0409:35	155	75		2		
4008	307	81/11/03	0531:55	0532:15	76	127	1254	2		
4009	307	81/11/03	0626:35	0633:30	1530	370	1.48E+05	2		M
4010	307	81/11/03	0833:25	0834:05	60	85		2		
4011	307	81/11/03	0944:50	0945:15	65	69		2		
6847	307	81/11/03	1311:33	1311:42	88	305	5195	3		I ,FS
6848	307	81/11/03	1313:50	1314:02	27	52		2		I
4012	307	81/11/03	1343:20	1343:45	50	67		2		
4013	308	81/11/04	0151:05	0152:55	183	156	2102	2		
6849	308	81/11/04	0510:05	0510:22	40	74		2		I
6850	308	81/11/04	0513:03	0513:45	132	313	8206	3		I
4014	308	81/11/04	0636:40	0637:55	130	68		2		
4015	308	81/11/04	0804:05	0804:35	85	71		2		
4016	308	81/11/04	0822:35	0824:20	196	301	2857	5		
4017	308	81/11/04	0953:10	0953:35	121	235	4233	4		
4018	308	81/11/04	1103:25	1109:35	621	229	21419	2	3432	M
4019	308	81/11/04	1120:35	1121:10	60	59		2		
6852	308	81/11/04	1605:20	1605:45	70	498	7572	3		M ,I
6853	308	81/11/04	2104:12	2104:31	38	94		2		I
6854	308	81/11/04	2108:56	2109:21	58	75		2		I
4020	308	81/11/04	2221:00	2221:55	110	77		2		
4021	308	81/11/04	2223:10	2223:20	60	75		2		
4022	309	81/11/05	0030:10	0031:05	154	202	4034	3		
4023	309	81/11/05	0119:10	0119:30	65	70		2		EW
4024	309	81/11/05	0211:25	0212:00	339	1204	71088	9	3432	EW
4025	309	81/11/05	0831:40	0833:10	478	3779	2.66E+05	10	3432	M ,FS,EW
4026	309	81/11/05	1237:10	1238:50	730	1013	1.24E+05	10		EN
4027	309	81/11/05	1404:35	1406:25	302	194	12290	2		M
4028	309	81/11/05	1730:45	1732:05	200	253	1708	4		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4029	310	81/11/06	0000:05	0001:30	131	774	9355	5		M ,FS
4030	310	81/11/06	1444:30	1444:40	35	83		2		
4031	310	81/11/06	1544:45	1545:55	140	78		2		
6856	310	81/11/06	1907:29	1907:42	40	67		2		I
4032	310	81/11/06	2018:00	2020:30	180	85		2		
4033	311	81/11/07	0301:35	0302:30	134	346	9329	4		ND
4034	311	81/11/07	0311:20	0312:10	85	79		2		ND
4035	311	81/11/07	0317:20	0317:35	85	85		2		
4036	311	81/11/07	0718:45	0719:40	304	206	8711	2		
4037	311	81/11/07	0810:30	0810:55	57	114	766	2		
4038	312	81/11/08	0124:10	0124:25	37	184	675	2		
4039	312	81/11/08	0315:55	0318:15	325	550	66405	3		M
4040	312	81/11/08	0357:30	0358:10	160	1819	74482	5	3450	
4041	312	81/11/08	1055:45	1056:35	105	90		2		
4042	312	81/11/08	2347:00	2347:25	64	150	1410	2		
4043	313	81/11/09	0054:00	0054:30	65	62		2		
4044	313	81/11/09	0443:50	0445:05	130	67		2		
4045	313	81/11/09	0541:30	0541:40	20	83		2		
4046	313	81/11/09	0613:25	0614:40	456	210	11269	3		
6858	313	81/11/09	0716:41	0716:55	138	66		2		I
4047	313	81/11/09	0928:45	0929:45	176	792	9957	5		
4048	313	81/11/09	1019:55	1020:10	20	57		2		
4049	313	81/11/09	1022:10	1022:55	105	77		2		
4050	313	81/11/09	1231:35	1239:00	624	585	96061	4		M
4051	313	81/11/09	1318:15	1318:30	1081	266	47364	7		SN,ES
4052	314	81/11/10	0355:30	0357:05	145	61		2		
4053	314	81/11/10	0531:40	0531:55	145	68		2		
4054	314	81/11/10	0544:20	0546:30	680	3156	2.31E+05	7		
4055	314	81/11/10	1458:50	1459:30	207	141	5251	2		
4056	314	81/11/10	1621:30	1622:25	133	422	4786	3		M
4057	314	81/11/10	1715:10	1716:20	140	91		2		
4058	315	81/11/11	0029:35	0030:00	276	174	5624	2		M
4059	315	81/11/11	0334:00	0335:00	195	74		2		
4060	315	81/11/11	0343:25	0343:55	112	206	3696	4		
4061	315	81/11/11	0659:40	0701:15	130	99		2		
4062	315	81/11/11	0718:25	0719:25	86	198	4184	4		
4063	315	81/11/11	0733:15	0733:45	75	100	1137	2		
4064	315	81/11/11	0849:10	0851:05	764	638	62744	5		M
4065	315	81/11/11	1127:10	1128:30	138	539	8376	5		M
4066	315	81/11/11	1216:10	1217:00	90	60		2		
4067	315	81/11/11	1259:50	1300:40	218	124	4500	2		
4068	315	81/11/11	1448:25	1449:20	123	445	12017	5		M ,EN
4069	315	81/11/11	1949:15	1953:44	285	113	6158	3		ES,AX
4070	315	81/11/11	2304:30	2311:10	623	78	7387	3		AX
4071	316	81/11/12	0058:50	0059:15	75	83		2		
4072	316	81/11/12	0152:15	0153:05	166	300	13032	5		
6269	316	81/11/12	0337:42	0338:18	557	1711	63740	7	3451	M ,I
6293	316	81/11/12	0624:14	0627:44	709	170	27617	2		I
6859	316	81/11/12	0940:25	0940:43	50	145	875	2		I
4073	316	81/11/12	1111:00	1111:45	175	64		2		
4074	316	81/11/12	1203:00	1203:55	153	93		2		
6570	316	81/11/12	1555:58	1601:46	1382	22520	1.92E+06	11	3451	M ,I ,SN,ES,FS
4075	316	81/11/12	1917:00	1918:30	175	72		2		
4076	316	81/11/12	1921:05	1922:10	188	121	4129	3		
4077	316	81/11/12	1931:05	1931:40	50	67		2		
4078	316	81/11/12	2102:35	2103:45	200	365	6542	4		
4079	317	81/11/13	0014:40	0015:20	245	129	3786	3		
4080	317	81/11/13	0026:05	0027:35	135	78		2		
4081	317	81/11/13	0031:50	0034:50	270	109	3199	2		
4082	317	81/11/13	0049:25	0050:15	134	201	5660	4		
4083	317	81/11/13	0137:40	0137:45	145	81		2		
4084	317	81/11/13	0142:05	0142:30	105	96		2		
4085	317	81/11/13	0144:15	0145:45	170	74		2		
4086	317	81/11/13	0154:00	0156:00	468	112	11189	2	3456	
4087	317	81/11/13	0322:05	0327:10	488	94	5533	2		
4088	317	81/11/13	0332:15	0334:10	222	1494	28616	10	3451	FS
4089	317	81/11/13	0343:05	0343:25	58	218	2417	4		
4090	317	81/11/13	0346:30	0347:25	392	74	3824	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4091	317	81/11/13	0439:50	0440:25	155	79		2		
4092	317	81/11/13	0455:00	0455:15	175	78		2		
4093	317	81/11/13	0507:10	0507:30	40	96		2		
4094	317	81/11/13	0509:00	0509:10	45	76		2		
4095	317	81/11/13	0805:55	0807:25	649	274	32295	5	3451	
4096	317	81/11/13	1102:10	1103:15	442	5042	2.84E+05	7		FS
4097	317	81/11/13	1150:00	1150:24	45	99		2		
4098	317	81/11/13	1921:10	1921:55	435	173	7317	2		
4099	317	81/11/13	2342:15	2344:00	281	437	10512	5	3461	
4100	317	81/11/13	2355:00	2356:25	146	269	6760	3		
4101	318	81/11/14	0627:40	0628:00	40	73		2		
4102	318	81/11/14	0752:40	0802:10	803	185	23162	10		
4103	318	81/11/14	0820:35	0821:05	51	278	2201	4		
6860	318	81/11/14	1401:41	1402:32	92	64		2		I
6861	318	81/11/14	1405:50	1406:25	53	66		2		I
4104	318	81/11/14	2154:45	2202:10	3381	1012	3.96E+05	9	3451	
4105	318	81/11/14	2331:25	2331:55	55	95		2		
4106	319	81/11/15	0004:45	0005:15	60	97		2		
4107	319	81/11/15	0134:40	0135:15	81	493	9259	4		
4108	319	81/11/15	0303:15	0303:35	56	133	1253	2		
4109	319	81/11/15	0307:40	0308:35	279	130	4026	2		
4110	319	81/11/15	0426:45	0427:20	75	187	3184	3		
4111	319	81/11/15	1527:15	1527:55	112	117	1737	2		EW
4112	319	81/11/15	2348:30	2349:10	120	67		2		
4113	320	81/11/16	1247:20	1250:15	515	176	17409	2		
4114	321	81/11/17	0426:40	0427:00	79	292	2936	3		
4115	321	81/11/17	0732:50	0733:30	85	73		2		
6862	321	81/11/17	0921:30	0922:08	51	69		2		I
6863	321	81/11/17	0928:40	0929:29	80	66		2		I
4116	321	81/11/17	1150:20	1155:17	483	519	71584	4		I ,EW
12696	321	81/11/17	1608:53	1608:56	7	59	94	9		NS,GB
4117	321	81/11/17	2150:25	2151:30	110	83		2		
4118	321	81/11/17	2302:20	2302:40	100	68		2		
4119	322	81/11/18	0109:40	0111:15	140	88		2		
4120	322	81/11/18	0119:25	0123:05	502	162	13181	2		
4121	322	81/11/18	0304:00	0305:00	110	57		2		
4122	322	81/11/18	0411:55	0414:30	477	1498	1.12E+05	5	3467	FS
4123	322	81/11/18	0602:15	0603:00	123	113	1725	4		
4124	322	81/11/18	0906:35	0908:10	173	142	3544	2		
4125	322	81/11/18	1411:45	1411:45	80	66		2		
4126	323	81/11/19	0222:35	0228:15	1597	252	45187	3		
4127	323	81/11/19	1048:15	1048:55	114	152	2035	2		
4128	324	81/11/20	0025:55	0027:50	205	70		2		
4129	324	81/11/20	0458:45	0510:05	957	293	56075	13		
4130	324	81/11/20	1802:10	1802:20	60	61		2		
4131	325	81/11/21	1553:20	1556:20	305	213	5887	2		
4132	325	81/11/21	2244:50	2245:05	185	67		2		
4133	326	81/11/22	0322:00	0322:40	615	3700	87699	8	3467	M ,FS
4134	326	81/11/22	0449:35	0449:40	115	101	2557	2		SA
4135	326	81/11/22	0655:35	0656:55	711	1899	2.20E+05	7	3471	M ,FS
4731	326	81/11/22	1742:15	1743:45	98	101	471	2		I ,SA
4136	326	81/11/22	2042:05	2042:40	50	64		2		
4137	326	81/11/22	2223:15	2223:40	50	81		2		
4138	326	81/11/22	2242:15	2242:35	70	64		2		
4139	327	81/11/23	0444:20	0444:50	90	67		2		
4140	327	81/11/23	0948:45	0949:05	100	77		2		
4141	327	81/11/23	1308:30	1309:15	140	84		2		
4142	327	81/11/23	1530:05	1530:35	90	68		2		
4143	328	81/11/24	0111:15	0114:05	450	78	4492	4		
4144	328	81/11/24	0136:15	0136:40	70	72		2		
4145	328	81/11/24	1429:10	1429:55	103	105	1137	2		
4146	328	81/11/24	1431:20	1431:50	69	141	1548	2		
6864	328	81/11/24	1705:49	1706:18	31	71		2		I
4147	329	81/11/25	0302:40	0303:55	156	120	2071	2		
4148	329	81/11/25	0412:15	0412:15	194	163	4767	9		SA,AX
4149	329	81/11/25	0742:10	0745:30	615	115	8409	2		
4150	329	81/11/25	1252:10	1253:15	104	179	5588	2		M
4151	329	81/11/25	1815:25	1817:00	330	633	43279	4		M

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4152	329	81/11/25	2045:10	2045:15	25	66		2		
4153	329	81/11/25	2317:25	2319:30	535	132	8651	2		
4154	330	81/11/26	0212:50	0216:35	434	187	21369	11		SA
6866	330	81/11/26	0930:50	0931:29	45	168	1523	3		I ,EG
4155	330	81/11/26	1938:10	1943:05	875	96	7965	2	3477	EW
4156	330	81/11/26	2324:40	2325:30	107	193	4177	2		EW
4157	331	81/11/27	2111:00	2112:40	273	103	6249	4		
4158	332	81/11/28	0729:15	0731:50	290	220	26100	2		ND
4159	333	81/11/29	0204:40	0206:45	459	75	4198	2		
4160	333	81/11/29	0659:05	0659:30	75	72		2		
4161	333	81/11/29	1553:40	1626:00	3256	95	49447	2		
4162	333	81/11/29	1813:00	1814:05	92	223	2300	2	3478	FS
4163	333	81/11/29	1927:45	1929:20	291	999	13442	5		
4164	334	81/11/30	0823:35	0824:00	70	94		2		
4165	334	81/11/30	1136:35	1141:05	500	167	8950	2		
4166	334	81/11/30	1456:35	1457:10	184	1544	21682	4		
4167	335	81/12/01	0314:20	0314:40	105	69		2		
4168	335	81/12/01	0826:55	0827:40	80	82		2		
4169	335	81/12/01	1250:25	1251:00	65	72		2		
4170	335	81/12/01	1416:35	1417:20	100	68		2		
4171	335	81/12/01	1705:40	1708:55	527	609	37777	7	3484	M ,SN
4172	335	81/12/01	1858:20	1858:55	145	90		2		
4173	336	81/12/02	0310:20	0310:45	125	88		2		
4174	336	81/12/02	1357:05	1357:50	80	72		2		
6867	336	81/12/02	1705:59	1707:24	410	256	12568	4		I
4175	336	81/12/02	1852:55	1855:10	205	70		2		
4176	336	81/12/02	2030:40	2031:30	140	147	5106	2		
6868	337	81/12/03	0555:44	0557:53	186	86		2		I
6869	337	81/12/03	0609:48	0609:57	38	83		2		I
4177	337	81/12/03	1737:00	1737:25	72	110	960	2	3484	
4178	337	81/12/03	1900:50	1901:00	20	91		2		
4179	337	81/12/03	2007:10	2007:55	80	68		2		EW
4180	337	81/12/03	2046:30	2047:15	120	70		2		
4181	337	81/12/03	2207:05	2207:35	80	64		2		
4182	338	81/12/04	0857:50	0858:10	60	76		2		
4183	338	81/12/04	1500:50	1501:30	75	59		2		
4184	338	81/12/04	1726:15	1727:55	224	515	1.10E+05	3		ND
4185	338	81/12/04	2102:00	2105:20	311	117	8862	4		EW
6871	339	81/12/05	0706:17	0708:03	131	325	3434	3		I
4187	339	81/12/05	1034:00	1034:45	95	65		2		EW
6872	339	81/12/05	1136:59	1137:50	65	653	9029	4		I ,ES
6873	339	81/12/05	1206:57	1207:43	100	68		2		I
6874	339	81/12/05	1316:01	1316:44	58	207	2157	3		I
6875	339	81/12/05	1318:54	1320:20	113	73		2		I
6876	339	81/12/05	1540:26	1541:11	57	67		2		I
4186	340	81/12/06	0247:50	0248:40	75	78		2		EW
4188	340	81/12/06	1956:00	1957:30	191	84		2		
4189	340	81/12/06	2253:40	2254:10	51	110	464	2		
4190	341	81/12/07	0044:35	0045:00	165	85		2		
4191	341	81/12/07	0057:30	0058:25	214	279	5752	4		
4192	341	81/12/07	0334:30	0335:20	291	398	14691	4		
4193	341	81/12/07	0654:05	0654:25	47	162	1088	2		
4194	341	81/12/07	1331:05	1334:05	650	200	16748	2	3505	
4195	341	81/12/07	1442:15	1451:05	750	3311	74095	15	3505	
4196	342	81/12/08	0006:45	0007:10	60	69		2		
4197	342	81/12/08	0033:15	0034:20	198	290	9866	2		
4198	342	81/12/08	0139:55	0143:25	481	322	16830	4		
4199	342	81/12/08	0311:40	0312:20	75	80		2		
4200	342	81/12/08	0334:45	0336:00	120	90		2		
4201	342	81/12/08	0645:00	0645:35	70	83		2		
6878	342	81/12/08	0953:34	0953:54	48	77		2		I
6879	342	81/12/08	1026:30	1026:58	42	129	1035	2		I
6880	342	81/12/08	1114:13	1114:40	63	585	5899	4		I ,FS
6881	342	81/12/08	1125:54	1127:05	102	90		2		I
4202	342	81/12/08	1236:00	1236:50	119	796	17362	5		
4203	342	81/12/08	1420:45	1422:00	120	81		2		
4204	342	81/12/08	1633:10	1634:20	110	99		2		
4205	342	81/12/08	1753:15	1800:15	683	134	16064	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4206	342	81/12/08	1825:00	1826:40	160	67		2		
4207	343	81/12/09	0132:00	0133:55	214	101	3487	2		
4208	343	81/12/09	0339:15	0343:30	1196	3156	4.30E+05	4	3492	EN
4209	343	81/12/09	0504:15	0505:30	155	92		2		
4210	343	81/12/09	0509:35	0512:00	218	118	3669	2		
4211	343	81/12/09	0636:40	0645:10	1522	825	1.30E+05	2	3504	M
4212	343	81/12/09	1500:30	1503:10	197	75		2		
4213	343	81/12/09	1625:20	1625:40	49	207	1291	4		
4214	343	81/12/09	1853:50	1905:30	2765	818	4.91E+05	10	3496	M ,ES
4215	343	81/12/09	2021:00	2022:30	1452	129	26578	2		SN
4216	343	81/12/09	2212:05	2212:20	87	458	4528	4		M
4217	343	81/12/09	2217:20	2217:35	106	153	1204	2		
4218	344	81/12/10	0154:55	0155:10	110	76		2		
6883	344	81/12/10	0825:44	0825:59	37	84		2		I
4219	344	81/12/10	1234:40	1234:55	40	77		2		
4220	344	81/12/10	1236:25	1237:00	60	95		2		
4221	344	81/12/10	1249:15	1249:25	35	98		2		
4222	344	81/12/10	1250:45	1251:00	40	90		2		
4223	344	81/12/10	1530:25	1531:20	175	336	11323	4		
4224	344	81/12/10	1538:15	1538:30	60	74		2		
4225	344	81/12/10	1706:10	1706:30	75	82		2		
4226	344	81/12/10	1710:15	1710:35	110	72		2		
4227	344	81/12/10	2147:05	2148:40	348	285	12878	2		M
6884	345	81/12/11	0014:32	0014:52	59	65		2		I
4228	345	81/12/11	0303:30	0304:15	96	598	7803	5		M
4229	345	81/12/11	0311:55	0312:40	110	94		2		
4230	345	81/12/11	0439:05	0440:00	238	411	12695	3		
4231	345	81/12/11	0728:15	0728:55	140	75		2		
4232	345	81/12/11	0741:40	0743:10	322	123	4155	2		
4233	345	81/12/11	2014:50	2015:40	150	212	4426	2		
4234	345	81/12/11	2151:20	2151:50	140	67		2		
4235	345	81/12/11	2325:15	2326:45	180	74		2		
4236	346	81/12/12	0318:45	0322:35	487	946	51799	4		EN
4237	346	81/12/12	0422:35	0423:00	180	183	4583	2		
4238	346	81/12/12	0740:55	0742:10	120	70		2		
4239	346	81/12/12	1245:15	1245:25	48	262	1437	3		
4240	346	81/12/12	1640:22	1646:22	1307	781	1.06E+05	5		M ,I
4241	347	81/12/13	1054:20	1057:15	505	375	20414	2		
4242	347	81/12/13	1339:30	1340:05	45	74		2		
4243	347	81/12/13	2125:15	2127:30	622	582	86167	4	3492	M
4244	348	81/12/14	0828:10	0829:00	70	79		2		
4245	348	81/12/14	1202:55	1205:20	170	80		2		
4246	348	81/12/14	1759:40	1800:55	130	72		2		
4247	348	81/12/14	1802:25	1803:05	110	95		2		
4248	348	81/12/14	1952:15	1952:40	80	73		2		
4249	348	81/12/14	2142:30	2142:45	39	110	841	2		
4250	349	81/12/15	0045:55	0047:15	246	105	3493	2		
4251	349	81/12/15	0328:30	0328:40	25	69		2		
6886	349	81/12/15	0734:41	0735:23	81	72		2		I ,ND
4252	349	81/12/15	0817:30	0817:55	115	96		2		
4253	349	81/12/15	1133:45	1135:50	281	119	5120	2		
4254	349	81/12/15	1625:35	1626:25	198	65		2		
4255	349	81/12/15	1944:30	1946:30	765	1193	1.42E+05	5	3492	M ,EN
4256	350	81/12/16	1250:55	1251:50	160	71		3		
4257	350	81/12/16	1429:50	1429:55	170	88		2		
6887	350	81/12/16	1558:13	1558:32	47	71		2		I
6888	350	81/12/16	1615:12	1615:53	86	65		2		I
4258	350	81/12/16	1618:11	1619:49	421	185	20661	2		I
6889	352	81/12/18	1541:45	1542:09	59	80		2		I
4259	354	81/12/20	1429:05	1430:30	185	68		2		
4260	355	81/12/21	1236:00	1237:00	185	68		2		
6893	361	81/12/27	0908:07	0908:32	129	198	4197	2		I
4292	362	81/12/28	1826:25	1827:50	155	92		2		
4293	364	81/12/30	0823:40	0824:15	70	61		2		
12697	365	81/12/31	0137:22	0137:24	26	54	327	14		NS,GB
12698	365	81/12/31	0758:19	0758:20	3	99	72	15		NS,GB
4294	365	81/12/31	1755:35	1755:45	21	160	678	3		
6895	365	81/12/31	1916:24	1916:47	117	125	2523	2		I ,ND

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6896	365	81/12/31	1921:43	1922:35	314	120	6581	2		I ,ND
4295	1	82/01/01	0055:00	0057:05	199	2404	1.71E+05	9	3522	EW
6942	1	82/01/01	1643:15	1643:41	61	94		2		I
6943	1	82/01/01	2213:16	2214:23	153	60		2		I
6944	1	82/01/01	2348:26	2349:39	164	53		2		I
6945	2	82/01/02	0043:54	0044:51	100	107	2570	2		I
6571	2	82/01/02	0609:42	0611:09	2042	5363	7.75E+05	12	3520	M ,I
4296	2	82/01/02	2254:35	2255:15	70	61		2		
6757	3	82/01/03	0011:51	0015:16	1076	262	70741	3		I
4297	3	82/01/03	0639:45	0643:10	363	85	5254	2		
6960	4	82/01/04	0124:49	0125:26	82	83		2		I ,ND
4298	7	82/01/07	0232:25	0232:45	190	72		2		
4308	7	82/01/07	1211:30	1217:45	580	88	6065	2		
4309	7	82/01/07	1937:40	1938:55	263	421	19215	4		
4310	8	82/01/08	0020:05	0021:20	130	64		3		
4311	8	82/01/08	0024:40	0025:15	125	56		2		
4312	8	82/01/08	0156:45	0157:35	155	97		5		
4313	8	82/01/08	0201:20	0202:40	384	2309	54235	7	3537	FS
4314	8	82/01/08	0322:10	0327:45	627	81	6320	5		AX
7079	8	82/01/08	1017:59	1018:16	42	85		2		I
4315	8	82/01/08	1301:00	1301:20	65	97		2		
7080	8	82/01/08	1427:01	1428:56	1030	655	96878	3	3537	I ,ES
7081	8	82/01/08	1610:39	1611:00	29	63		2		I
4316	8	82/01/08	2057:00	2058:25	175	82		4		EW
4317	9	82/01/09	0224:40	0225:20	95	57		2		EW
4318	9	82/01/09	0529:40	0531:55	190	63		2		EW
4319	9	82/01/09	0700:15	0700:35	93	125	2124	2		EW
4320	9	82/01/09	1949:00	1949:25	64	136	1658	2		
4321	9	82/01/09	2039:45	2040:30	110	129	3435	5		
4322	9	82/01/09	2219:20	2221:05	175	82		3		EW
7095	10	82/01/10	0132:02	0133:56	437	123	12135	4		I
7096	10	82/01/10	0210:24	0210:35	36	63		2		I
4323	10	82/01/10	0831:00	0831:15	95	73		2		EW
4324	10	82/01/10	1450:30	1450:40	35	68		2		EW
4325	10	82/01/10	2028:20	2040:15	1022	209	24177	5		
7106	10	82/01/10	2209:17	2209:26	40	93		2		I
4326	10	82/01/10	2356:05	2356:30	50	78		2		
4327	11	82/01/11	0004:20	0004:45	185	192	5152	2		
7108	11	82/01/11	0125:36	0134:23	994	685	1.93E+05	8		M ,I
4328	11	82/01/11	0207:10	0208:20	90	63		4		EN
4329	11	82/01/11	0303:25	0303:45	60	56		2		
4330	11	82/01/11	0305:30	0305:45	35	73		2		
4331	11	82/01/11	0316:05	0316:30	135	64		2		
4333	11	82/01/11	0639:35	0639:40	337	108	6860	2		
4334	12	82/01/12	0153:50	0155:45	197	69		4		AX
4336	12	82/01/12	2138:25	2145:30	579	135	21350	7		AX,EW
4337	12	82/01/12	2219:25	2219:50	30	84		2		EW
4338	12	82/01/12	2220:25	2223:05	375	84	4519	5		AX,EW
4339	13	82/01/13	2121:00	2125:20	762	201	53212	7		
4340	13	82/01/13	2208:05	2209:45	195	71		5		
4341	14	82/01/14	2154:30	2155:20	125	69		3		AX,EW
4342	14	82/01/14	2332:20	2333:25	145	61		3		AX
4343	15	82/01/15	0026:20	0029:05	309	87	3527	4		AX
4344	15	82/01/15	0112:10	0113:45	145	69		5		AX,EW
4345	15	82/01/15	1211:35	1211:55	30	60		2		EW
4346	15	82/01/15	1214:55	1215:00	20	57		2		EW
4347	15	82/01/15	2056:50	2059:00	543	153	18695	5		AX
7139	16	82/01/16	0537:14	0537:30	42	60		2		I
4348	16	82/01/16	2123:25	2124:15	80	65		2		
4349	17	82/01/17	2028:55	2032:10	652	114	14648	5		AX,EW
4350	17	82/01/17	2203:15	2204:25	165	71		2		AX
4351	17	82/01/17	2253:20	2255:05	185	72		2		AX
4352	17	82/01/17	2341:55	2343:35	384	146	11663	7		AX
4353	18	82/01/18	1432:50	1434:45	319	99	4760	2		
4354	18	82/01/18	2238:35	2239:10	170	85		4		AX
4355	19	82/01/19	0927:50	0929:20	168	119	2080	2		
4356	19	82/01/19	1405:10	1406:05	120	62		2		
4357	19	82/01/19	1410:45	1411:15	108	128	835	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4358	19	82/01/19	1420:35	1421:50	120	69		2		
4359	19	82/01/19	1524:55	1525:55	197	66		3		
4360	19	82/01/19	1829:35	1830:15	95	65		2		
4361	19	82/01/19	2004:40	2006:50	180	57		2		
4362	19	82/01/19	2034:10	2035:30	170	79		2		
4363	19	82/01/19	2154:40	2155:35	252	84	3966	2		
7142	20	82/01/20	0321:33	0322:48	242	90	3859	2		I
4365	20	82/01/20	1049:10	1050:05	187	75		2		
4366	20	82/01/20	2210:00	2212:55	541	71	12874	4		
4367	21	82/01/21	0548:50	0549:10	60	105	578	2		
12699	21	82/01/21	0900:35	0900:36	5	57	36	11		NS,GB
7156	21	82/01/21	1206:18	1206:38	200	61		2		I
7157	21	82/01/21	1240:55	1241:19	63	51		2		I
12700	21	82/01/21	1412:29	1412:30	3	96	58	15		NS,GB
4368	22	82/01/22	1457:35	1457:55	135	80		2		
4369	22	82/01/22	1710:30	1711:25	130	93		2		
4370	23	82/01/23	2305:40	2306:10	75	58		2		
7244	24	82/01/24	0028:59	0029:38	103	123	2503	2		I
4371	24	82/01/24	0152:35	0155:35	696	935	1.37E+05	4		
4372	24	82/01/24	1015:30	1015:55	60	83		2		
4373	24	82/01/24	1449:40	1450:30	110	84		2		
4374	24	82/01/24	1453:20	1453:40	55	59		2		
4375	24	82/01/24	1454:40	1456:15	145	66		2		
4376	24	82/01/24	1936:20	1944:45	1188	984	3.31E+05	5		M ,FS
7245	24	82/01/24	2126:45	2126:55	23	53		2		I
7246	24	82/01/24	2246:51	2247:06	67	62		2		I
4378	25	82/01/25	1553:15	1554:00	165	57		2		
4379	25	82/01/25	1756:30	1756:32	21	121	292	15		NS,GB
4380	25	82/01/25	1918:35	1919:35	160	99		2		
7247	25	82/01/25	2051:39	2052:23	131	86		2		I
4381	26	82/01/26	0210:45	0212:20	160	69		2		
4382	26	82/01/26	0323:40	0323:55	71	60		2		
4383	26	82/01/26	0343:05	0343:15	45	104	217	5		
4384	26	82/01/26	0428:15	0428:25	40	96		2		
4385	26	82/01/26	0615:40	0615:55	44	119	692	4		
4392	26	82/01/26	1731:30	1732:10	80	96		2		
4393	26	82/01/26	2045:20	2045:30	25	80		2		
4394	26	82/01/26	2344:20	2344:35	85	66		2		
4854	27	82/01/27	0328:55	0329:10	35	65		2		
4395	27	82/01/27	0611:25	0611:40	30	80		2		
4396	27	82/01/27	0639:20	0640:25	110	61		2		
7248	27	82/01/27	1232:36	1232:46	13	69		2		I
4398	27	82/01/27	1410:20	1411:25	195	121	3669	2		
4399	27	82/01/27	1743:30	1743:55	114	136	1448	2		
4400	27	82/01/27	1830:50	1831:05	40	51		2		
4401	27	82/01/27	2206:30	2207:15	160	81		2		
4402	27	82/01/27	2209:25	2209:55	175	83		2		
4409	28	82/01/28	0325:55	0326:40	135	79		2		EW
4405	28	82/01/28	0548:00	0548:30	60	64		2		EW
4403	28	82/01/28	0713:20	0722:00	1498	9763	1.02E+06	15	3573	M ,SA
4404	28	82/01/28	0748:25	0749:05	160	82		2		
4406	28	82/01/28	0938:05	0939:05	246	134	5448	2		
4407	28	82/01/28	1052:45	1052:55	75	53		2		
4408	28	82/01/28	1112:40	1113:45	161	164	4478	2		
7253	28	82/01/28	1654:38	1655:45	129	62		2		I
4410	28	82/01/28	1850:50	1851:25	55	83		2		
4411	29	82/01/29	0220:55	0222:50	218	126	4786	2		
4412	29	82/01/29	0228:10	0228:30	25	67		2		
4413	29	82/01/29	0234:15	0235:35	743	142	11550	2		
4414	29	82/01/29	0312:40	0313:50	127	228	3760	3		M
4415	29	82/01/29	0354:25	0355:25	127	76		2		
4416	29	82/01/29	0357:40	0358:15	55	76		2		
4417	29	82/01/29	0427:10	0427:25	30	80		2		
7254	29	82/01/29	0726:32	0727:06	63	53		2		I
7255	29	82/01/29	0758:54	0759:10	71	55		2		I
4421	29	82/01/29	1025:05	1026:05	300	75	5167	2		EW
4422	29	82/01/29	1040:10	1048:20	660	153	2834	2		EW
4423	29	82/01/29	1543:35	1544:35	621	94	11782	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4424	29	82/01/29	2124:45	2125:15	115	93		2		
7256	29	82/01/29	2131:37	2132:23	55	65		2		I ,EG
7257	29	82/01/29	2145:15	2145:32	36	80		2		I
7258	29	82/01/29	2146:41	2146:46	10	69		2		I
7259	29	82/01/29	2148:34	2149:13	105	73		2		I
7260	29	82/01/29	2151:38	2152:43	105	101	2443	2		I
7261	30	82/01/30	0028:50	0031:20	678	78	4441	2	3579	I
7262	30	82/01/30	0045:10	0046:22	590	822	45581	4	3581	I
4425	30	82/01/30	0247:10	0248:50	200	75		2		DG
7263	30	82/01/30	0416:46	0417:06	40	84		2		I ,ND
7264	30	82/01/30	0419:46	0420:12	44	58		2		I ,ND
7265	30	82/01/30	0420:30	0420:50	32	57		2		I ,ND
4426	30	82/01/30	0853:50	0854:00	25	75		2		SG
4427	30	82/01/30	0959:25	0959:40	20	54		2		
4428	30	82/01/30	1001:45	1002:20	65	59		2		
4429	30	82/01/30	1036:45	1037:20	60	66		2		
4430	30	82/01/30	1204:50	1214:35	1784	1006	1.21E+05	7		
4431	30	82/01/30	1354:40	1354:50	30	64		2		
7266	30	82/01/30	1937:13	1938:07	64	73		2		I
4432	30	82/01/30	2125:00	2126:10	190	57		2		
4433	31	82/01/31	0014:20	0014:55	902	108	11986	4		SN
7267	31	82/01/31	0349:40	0350:42	88	62		2		I
7268	31	82/01/31	0518:23	0518:58	85	67		2		I
4434	31	82/01/31	0706:00	0706:25	73	375	5351	3		
4435	31	82/01/31	1123:30	1124:05	75	54		2		
4436	31	82/01/31	1315:35	1330:35	2232	1819	3.26E+05	10	3576	FS
4437	31	82/01/31	1441:35	1444:05	462	74	4648	4		
4438	31	82/01/31	1745:45	1747:35	193	96		2		
4439	32	82/02/01	0030:35	0032:10	772	1428	68753	7	3581	M ,FS
4440	32	82/02/01	0338:20	0339:10	130	99		2		
4441	32	82/02/01	0458:00	0458:30	150	61		2		
4442	32	82/02/01	0518:15	0519:20	337	158	5060	4		
4443	32	82/02/01	0717:45	0718:05	55	63		2		
12701	32	82/02/01	0819:30	0819:35	10	33				NS,GB
7286	32	82/02/01	0828:38	0829:45	119	66		2		I
4444	32	82/02/01	0830:51	0834:11	329	88		2		I
4445	32	82/02/01	1249:40	1250:20	45	58		2		
4446	32	82/02/01	1251:30	1252:40	180	89		4		
4447	32	82/02/01	1418:45	1419:10	1462	419	64212	5		SN
4448	32	82/02/01	1451:20	1451:40	65	73		2		
7287	32	82/02/01	1736:07	1736:24	46	71		2		I
4449	32	82/02/01	1904:35	1914:15	1506	92	19720	4		
4450	32	82/02/01	1935:15	1936:05	285	140	4800	2		
4451	32	82/02/01	2058:05	2059:30	199	96		2		
4452	32	82/02/01	2246:05	2248:00	200	70		2		
4473	33	82/02/02	0012:00	0012:55	120	92		2		
4453	33	82/02/02	0027:25	0028:40	155	76		2		
4454	33	82/02/02	0326:15	0327:15	65	67		2		
4455	33	82/02/02	0929:35	0930:20	160	61		2		
4456	33	82/02/02	1015:10	1015:45	170	63		2		
4457	33	82/02/02	1147:05	1149:10	185	58		2		
4458	33	82/02/02	1150:10	1151:55	140	72		2		
4459	33	82/02/02	1233:15	1234:00	95	55		2		
4460	33	82/02/02	1236:00	1237:40	190	64		2		
4461	33	82/02/02	1249:55	1250:50	125	68		2		
7288	33	82/02/02	1325:01	1325:41	141	86		2		I
4462	33	82/02/02	1406:20	1414:45	3335	175	2.52E+05	15		SN,ND
4463	33	82/02/02	1502:25	1505:10	320	175	14179	5		EN,AX,ND
4464	33	82/02/02	1547:40	1548:00	792	540	31833	5	3576	M ,FS
4465	33	82/02/02	1639:45	1642:25	304	183	11352	5		M ,SA,EW
4466	33	82/02/02	1851:55	1852:15	725	365	24868	3	3577	SN
4467	33	82/02/02	1920:10	1920:30	45	54		2		
4468	33	82/02/02	2027:10	2028:45	197	74		2		
4469	33	82/02/02	2041:10	2041:45	213	100	4300	2	3577	
4470	33	82/02/02	2219:05	2219:55	173	176	3794	2	3583	
4471	33	82/02/02	2350:15	2351:30	145	83		2		
4472	33	82/02/02	2353:05	2354:50	195	74		2		
4474	34	82/02/03	0112:26	0114:45	2236	4864	1.86E+06	15	3576	M ,SN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7292	34	82/02/03	0311:29	0312:20	77	58		2		I
4475	34	82/02/03	0314:25	0315:30	512	1756	1.17E+05	5		FS
7293	34	82/02/03	0333:13	0334:23	135	55		2		I
4476	34	82/02/03	0426:00	0427:10	150	84		2		
4477	34	82/02/03	0621:25	0622:05	75	61		2		EW
4478	34	82/02/03	0626:30	0631:20	444	108	6093	2	3576	EW
4479	34	82/02/03	0814:00	0816:15	1179	105	6805	2		
4480	34	82/02/03	0908:20	0910:00	402	174	16705	2	3594	SN
4481	34	82/02/03	0929:35	0934:25	529	212	13962	3	3589	M
4482	34	82/02/03	1006:05	1006:35	100	73		2		
4483	34	82/02/03	1046:50	1047:10	180	68		2		
4484	34	82/02/03	1315:30	1318:10	201	784	28791	3		EN
4485	34	82/02/03	1418:25	1418:45	195	73		2		
4486	34	82/02/03	1422:45	1424:35	150	55		2		
4487	34	82/02/03	1425:25	1426:15	120	55		2		
4488	34	82/02/03	1704:00	1704:25	186	90		2		SN
4489	34	82/02/03	1851:50	1852:00	48	489	3690	3		M
4490	34	82/02/03	2020:55	2023:10	791	1610	3.11E+05	6	3594	M
4491	34	82/02/03	2041:35	2042:20	509	494	30614	5	3594	
4492	34	82/02/03	2326:20	2327:40	197	73		2		
4493	35	82/02/04	0108:45	0109:45	80	76		2		EW
4494	35	82/02/04	0602:55	0610:05	652	70	13687	2	3583	
4495	35	82/02/04	0634:10	0636:40	160	63		2		
4496	35	82/02/04	0740:00	0740:40	60	53		2		
4497	35	82/02/04	0753:40	0754:40	155	68		2		
4498	35	82/02/04	0757:25	0757:55	40	52		2		
4499	35	82/02/04	0759:50	0800:30	191	72		2		
4500	35	82/02/04	0924:00	0924:45	60	66		2		
4501	35	82/02/04	0932:40	0933:00	113	173	2167	2		
4502	35	82/02/04	1030:40	1031:00	52	117	770	4		
4503	35	82/02/04	1236:15	1237:30	105	93		2		
4504	35	82/02/04	1254:35	1255:25	185	71		2		
4505	35	82/02/04	1300:00	1300:35	70	90		2		
4506	35	82/02/04	1341:05	1341:20	640	223	22510	2		SN,DG
4507	35	82/02/04	1355:45	1356:40	80	57		2		
4508	35	82/02/04	1359:55	1402:35	198	56		2		
4509	35	82/02/04	1408:35	1408:55	65	58		2		
4510	35	82/02/04	1410:55	1411:45	85	81		2		
4511	35	82/02/04	1523:30	1524:25	170	62		2		
4512	35	82/02/04	1538:55	1541:45	309	806	41151	9	3576	
4513	35	82/02/04	1655:30	1656:20	75	88		2		
4514	35	82/02/04	1658:40	1659:30	76	104	670	2		
4515	35	82/02/04	1715:25	1716:20	96	122	2530	2		M
4516	35	82/02/04	1717:20	1718:55	171	135	3595	2		M
4517	35	82/02/04	1845:35	1846:15	75	66		2		
4518	35	82/02/04	1848:15	1848:40	60	56		2		
4519	35	82/02/04	1850:40	1852:40	170	72		2		
4520	35	82/02/04	1856:05	1857:20	204	546	44718	5		ES
4521	35	82/02/04	2143:00	2143:10	40	120	602	2		
4522	35	82/02/04	2330:05	2330:40	160	64		2		
4523	35	82/02/04	2337:25	2338:15	205	73		2		
4524	36	82/02/05	0109:35	0110:30	68	1617	10193	6	3576	M ,FS
4527	36	82/02/05	0128:00	0129:05	180	151	5182	2		EW
4525	36	82/02/05	0248:05	0248:35	55	71		4		
4526	36	82/02/05	0306:50	0315:00	924	230	14975	2	3576	
4528	36	82/02/05	0415:35	0415:55	45	77		2		EW
4529	36	82/02/05	0558:30	0559:05	110	55		2		
4530	36	82/02/05	0608:15	0608:35	185	171	2291	2		
4531	36	82/02/05	0731:30	0733:20	195	139	3011	2		
4532	36	82/02/05	0751:10	0751:45	80	87		2		
4533	36	82/02/05	0753:05	0758:35	650	90	6688	2		
4534	36	82/02/05	0903:45	0906:05	1479	7230	6.74E+05	14	3576	M
4535	36	82/02/05	1045:35	1046:35	164	125	2625	3		
4536	36	82/02/05	1052:05	1053:35	130	76		2		
4537	36	82/02/05	1056:40	1057:45	160	57		2		
4538	36	82/02/05	1153:00	1154:05	339	218	8059	2		
4539	36	82/02/05	1331:25	1331:40	30	54		2		
4540	36	82/02/05	1334:35	1335:05	100	64		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4541	36	82/02/05	1338:00	1339:40	170	86		2		
4542	36	82/02/05	1510:10	1510:40	70	69		2		
4543	36	82/02/05	1527:00	1528:15	155	75		2		
4544	36	82/02/05	2147:30	2147:55	55	89		2		
4545	37	82/02/06	0107:40	0107:55	69	70		2		
4546	37	82/02/06	0258:40	0259:05	124	135	5938	2		
4547	37	82/02/06	0302:00	0302:15	40	90		2		EW
4548	37	82/02/06	0355:35	0356:00	49	124	1195	2		
4549	37	82/02/06	0359:00	0359:25	44	178	1112	2		
4550	37	82/02/06	0425:00	0425:55	222	228	5334	3		
4551	37	82/02/06	0432:20	0432:50	90	61		2		
4552	37	82/02/06	0520:45	0521:00	110	92		3		
4553	37	82/02/06	0559:05	0601:25	538	122	11438	2		
4554	37	82/02/06	0608:45	0610:45	365	186	7431	3		
4555	37	82/02/06	0748:00	0751:25	258	78	1553	2		EW
4556	37	82/02/06	0902:50	0903:05	40	58		2		
4557	37	82/02/06	1009:05	1009:45	110	54		2		
4558	37	82/02/06	1145:05	1145:15	18	120	360	3		
4559	37	82/02/06	1223:50	1224:40	369	1143	42964	5		M ,FS
4560	37	82/02/06	1331:15	1334:10	416	1606	56368	6		
4561	37	82/02/06	1640:20	1640:45	66	298	3650	4		M ,FS
4562	37	82/02/06	1817:25	1818:20	108	236	5682	2		EG
4563	37	82/02/06	1948:15	1948:35	47	406	3388	3		M ,EW
4564	37	82/02/06	1959:20	1959:25	35	91		2		
4565	37	82/02/06	2004:15	2006:25	159	201	1784	3		EW
4641	37	82/02/06	2110:50	2114:45	789	91	9060	2		SN
4566	37	82/02/06	2130:20	2130:50	45	90		2		
4567	37	82/02/06	2139:45	2141:05	155	65		2		
4568	38	82/02/07	0030:35	0034:00	647	133	3980	2		
4569	38	82/02/07	0043:05	0043:50	75	60		2		
4570	38	82/02/07	0103:25	0103:45	55	82		3		EW
4571	38	82/02/07	0222:05	0222:35	270	77	1467	2		
4572	38	82/02/07	0534:35	0535:20	110	53		2		
4573	38	82/02/07	0544:15	0544:50	58	122	614	2		
4574	38	82/02/07	0643:35	0644:30	195	58		4		
4575	38	82/02/07	0650:55	0652:05	130	56		2		
4576	38	82/02/07	0825:30	0826:35	70	73		2		
4577	38	82/02/07	1036:50	1037:20	52	374	1984	2		
4578	38	82/02/07	1041:55	1043:30	140	89		2		
4579	38	82/02/07	1136:45	1137:05	51	623	5537	6		
7297	38	82/02/07	1302:00	1302:45	625	192	30188	2	3576	I ,SN
4580	38	82/02/07	1812:45	1815:50	265	175	6395	2		ES,EW
4581	38	82/02/07	2057:50	2058:15	696	2057	1.13E+05	10	3594	SN
4582	39	82/02/08	0011:05	0011:20	45	90		2		
4583	39	82/02/08	0029:55	0030:55	230	112	3687	2		
4584	39	82/02/08	0144:50	0148:50	638	562	42358	3	3594	M
4585	39	82/02/08	0228:15	0228:35	140	85		2		
4586	39	82/02/08	0241:15	0241:40	55	1193	28495	5	3564	
4587	39	82/02/08	0524:05	0525:30	125	66		2		
4588	39	82/02/08	0647:55	0652:20	660	326	18474	4		
4589	39	82/02/08	0701:35	0701:55	25	79		2		
4590	39	82/02/08	0710:45	0711:15	45	166	2290	3		
4591	39	82/02/08	0712:45	0714:10	189	275	7321	3		
7298	39	82/02/08	0804:00	0805:26	432	4600	1.23E+05	7	3594	M ,I ,FS
7299	39	82/02/08	0812:59	0813:12	112	71		2		I
7300	39	82/02/08	0815:14	0816:08	99	49		2		I
7301	39	82/02/08	0836:27	0836:45	184	80	2056	2		I
7302	39	82/02/08	0950:47	0951:34	64	55		2		I
7303	39	82/02/08	1006:24	1017:30	1047	86	7092	2		I
7304	39	82/02/08	1144:01	1144:57	589	64	4166	4		I
4592	39	82/02/08	1249:55	1250:00	1224	31095	1.96E+06	15	3576	M ,SN,SG
4593	39	82/02/08	1520:25	1520:50	40	50		2		
4594	39	82/02/08	1605:00	1606:40	198	66		2		
4595	39	82/02/08	1657:30	1657:45	51	113	1654	5		SA
4596	39	82/02/08	2120:40	2122:05	124	429	8465	5		M
4597	39	82/02/08	2124:55	2125:05	50	89		2		
4598	39	82/02/08	2219:35	2220:25	65	63		2		
4599	40	82/02/09	0043:25	0046:10	258	140	5061	2		ES,EW

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4600	40	82/02/09	0139:55	0141:30	416	386	26177	3		M
4601	40	82/02/09	0335:25	0339:05	638	1043	96412	3	3594	EW
4602	40	82/02/09	0357:55	0402:00	359	92	3827	2		EW
4603	40	82/02/09	0440:10	0441:40	1121	430	67328	4		SN,DG
7305	40	82/02/09	0644:33	0645:16	74	63		2		I
4604	40	82/02/09	0710:25	0712:35	239	653	1.61E+05	4	3594	I ,FS,EW
4605	40	82/02/09	0925:30	0925:55	559	448	48598	2		SN
4606	40	82/02/09	1103:20	1103:40	45	68		2		EW
4607	40	82/02/09	1106:50	1107:35	554	232	21299	2		
4608	40	82/02/09	1411:00	1411:15	1056	580	73965	7		SN
4609	40	82/02/09	2239:50	2241:10	188	66		2		
4610	40	82/02/09	2249:25	2250:35	120	61		2		
4611	40	82/02/09	2351:20	2351:35	135	68		2		
4612	41	82/02/10	0307:45	0309:15	380	460	12037	4	3583	M
4613	41	82/02/10	0349:30	0350:25	90	69		2		
4614	41	82/02/10	0634:05	0634:45	170	80		2		
4615	41	82/02/10	0750:20	0751:05	115	66		2		
4616	41	82/02/10	0816:30	0817:00	50	59		2		
4617	41	82/02/10	0944:05	0944:40	244	819	25052	5	3603	FS
4618	41	82/02/10	1050:30	1050:50	40	61		2		
4619	41	82/02/10	1124:15	1124:50	142	55		2		
4620	41	82/02/10	1140:30	1141:15	100	57		2		
4621	41	82/02/10	1309:55	1311:40	198	85		2		
4623	41	82/02/10	1411:25	1412:15	225	148	6438	2		
4622	41	82/02/10	1551:50	1552:10	35	65		2		
4624	41	82/02/10	1716:55	1717:35	70	80		2		
4625	41	82/02/10	1721:10	1721:35	50	60		2		
4626	41	82/02/10	1732:15	1732:30	40	55		2		
4627	41	82/02/10	1843:40	1851:40	1736	1427	2.73E+05	7	3594	M ,FS
4628	41	82/02/10	2153:35	2154:20	134	132	2876	3		
4629	41	82/02/10	2213:40	2214:40	136	196	4422	3		M
4630	41	82/02/10	2216:10	2217:05	110	378	5477	3		M
4631	41	82/02/10	2335:45	2336:50	182	59		2		
4632	42	82/02/11	0002:05	0004:10	192	115	1200	2		
4633	42	82/02/11	0141:00	0141:15	100	61		2		
4634	42	82/02/11	0143:05	0144:45	120	64		2		
4635	42	82/02/11	0315:15	0315:30	90	50		2		
4636	42	82/02/11	0317:25	0317:40	140	57		2		
4637	42	82/02/11	0728:50	0730:00	130	55		2		
4638	42	82/02/11	0916:10	0916:40	60	53		2		
4639	42	82/02/11	1209:45	1211:45	326	531	18648	4		FS
4640	42	82/02/11	1344:40	1345:30	144	1083	12093	5	3603	
4642	42	82/02/11	1526:20	1526:40	55	109	812	2		
4643	42	82/02/11	1533:10	1533:30	50	74		2		
4644	42	82/02/11	1832:45	1834:00	137	233	7983	2		
4645	42	82/02/11	2030:55	2034:45	492	426	23056	4		
4646	42	82/02/11	2323:55	2324:45	85	76		2		
4647	42	82/02/11	2351:15	2352:10	857	449	13887	4		
4648	43	82/02/12	0546:10	0546:20	20	55		2		
4649	43	82/02/12	0548:40	0550:10	199	479	10229	4		
4650	43	82/02/12	0628:40	0628:55	49	131	918	2		
4651	43	82/02/12	0633:55	0634:40	60	62		2		
4652	43	82/02/12	1118:05	1118:15	45	121	527	2		
4653	43	82/02/12	1340:30	1340:50	73	107	1468	2		
4654	43	82/02/12	1701:10	1703:20	355	68	4438	2	3594	ES
4655	43	82/02/12	1831:40	1831:55	50	82		2		
4656	43	82/02/12	1834:35	1834:50	30	61		2		
4657	43	82/02/12	2127:05	2127:45	109	177	2724	3		
4658	43	82/02/12	2130:15	2135:05	1378	5966	6.29E+05	9	3594	M ,FS
4659	43	82/02/12	2154:45	2157:40	542	4691	1.56E+05	13	3603	FS
4660	44	82/02/13	0116:35	0116:55	45	74		2		
4661	44	82/02/13	0126:45	0127:15	70	57		2		
4662	44	82/02/13	0130:20	0130:45	40	52		2		
4663	44	82/02/13	0402:40	0402:55	165	80		2		
4664	44	82/02/13	0702:10	0703:05	95	60		2		
4665	44	82/02/13	0833:15	0833:55	115	56		2		
4666	44	82/02/13	0914:00	0914:45	88	111	813	2		
4667	44	82/02/13	1511:55	1512:40	95	68		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4668	44	82/02/13	1822:10	1822:40	55	53		2		EW
4669	44	82/02/13	1941:00	1941:45	85	52		2		
5083	44	82/02/13	1944:55	1945:15	50	65		2		I
4670	44	82/02/13	1957:35	1958:10	90	202	2380	3		
4671	44	82/02/13	2012:20	2016:15	291	107	4601	3		ES
7307	44	82/02/13	2115:29	2115:40	28	60		2		I
4672	44	82/02/13	2326:05	2332:10	658	408	11238	4		M
4673	45	82/02/14	0036:10	0036:50	75	80		2		
4674	45	82/02/14	0100:40	0101:05	70	63		2		
4675	45	82/02/14	0119:52	0120:45	176	113	1821	4		
12702	45	82/02/14	0123:45	0123:47	8	48	58	15		NS,GB
4676	45	82/02/14	0218:00	0219:10	90	57		2		ND
4677	45	82/02/14	0219:55	0221:00	175	62		2		ND
4678	45	82/02/14	0343:15	0344:00	150	4521	1.10E+05	6	3594	M
4679	45	82/02/14	0407:25	0408:15	120	229	6714	3		
4680	45	82/02/14	0540:40	0541:10	55	56		2		
4681	45	82/02/14	0547:00	0547:10	70	54		2		
4682	45	82/02/14	0556:30	0557:25	120	69		2		
4683	45	82/02/14	0607:35	0608:10	35	67		2		
4684	45	82/02/14	1036:55	1037:45	90	92		2		
4685	45	82/02/14	1053:00	1054:00	90	66		2		
4686	45	82/02/14	1402:35	1403:25	108	130	3740	2		ND
4687	45	82/02/14	1945:00	1945:20	35	61		2		
4688	45	82/02/14	2309:35	2310:00	53	120	792	2		
4689	45	82/02/14	2310:50	2311:40	103	257	2570	3		
4690	46	82/02/15	0232:55	0233:05	30	50		2		
7308	46	82/02/15	0633:28	0634:01	67	80		2		I
7309	46	82/02/15	0644:05	0644:40	48	64		2		I
7310	46	82/02/15	0719:14	0721:08	319	135	8329	2		I
4691	46	82/02/15	1609:30	1609:55	148	56		2		
4692	46	82/02/15	1803:35	1803:40	30	61		2		
4693	46	82/02/15	1939:05	1939:25	35	95		2		
4694	47	82/02/16	0443:45	0443:50	35	47		2		
4695	47	82/02/16	1003:15	1004:50	188	176	6969	2		
4696	47	82/02/16	1513:05	1513:25	30	62		2		
7320	47	82/02/16	1557:32	1558:00	34	55		2		I
4697	47	82/02/16	1859:25	1859:50	523	431	20605	3		SN
4698	48	82/02/17	0438:20	0438:40	40	154	1631	2		
4699	48	82/02/17	0636:35	0636:50	40	64		2		
4700	48	82/02/17	0916:55	0917:10	40	51		2		
4701	48	82/02/17	0955:55	1000:25	600	245	15347	3		
4702	48	82/02/17	1904:00	1904:05	20	70		2		
4703	48	82/02/17	1915:20	1915:40	65	82		3		
4704	48	82/02/17	1943:20	1944:35	162	314	14686	5		M ,SA
4705	48	82/02/17	2332:00	2333:15	367	233	8581	4		
4706	49	82/02/18	0320:45	0321:40	158	340	8963	3		
4707	49	82/02/18	0339:45	0340:15	130	53		2		
4708	49	82/02/18	0444:00	0446:15	310	304	9316	4		
4709	49	82/02/18	0501:05	0503:00	195	63		2		
7322	49	82/02/18	0902:59	0903:44	103	1896	54637	7		M ,I ,ES
7323	49	82/02/18	1302:29	1305:41	594	277	17019	2		I
7328	49	82/02/18	2230:32	2232:28	196	53		2		I
4710	49	82/02/18	2331:55	2333:55	728	1019	2.02E+05	4	3607	M ,ND,FS
4711	50	82/02/19	0053:40	0055:05	125	47		2		
4712	50	82/02/19	0239:50	0240:05	45	57		2		EW
4713	50	82/02/19	0429:40	0429:50	46	108	932	2		
4714	50	82/02/19	0451:45	0453:20	472	347	19566	3		
4715	50	82/02/19	0555:50	0556:40	151	208	6871	2		IS
7329	50	82/02/19	1336:49	1341:06	505	352	22596	4		I
7330	50	82/02/19	1523:06	1523:28	132	80		2		I
4716	50	82/02/19	1652:25	1652:35	20	89		2		EW
4717	51	82/02/20	0351:55	0353:45	135	71		2		
4718	51	82/02/20	0725:15	0725:35	60	71		2		
4719	51	82/02/20	0726:55	0727:40	65	69		2		
4720	51	82/02/20	0919:35	0924:45	1003	1728	2.80E+05	6		M ,EN
4721	51	82/02/20	1050:10	1051:00	166	120	2883	2		
4722	51	82/02/20	1235:00	1235:15	40	77		2		
7333	51	82/02/20	1723:43	1724:13	221	1312	15695	4		M ,I ,FS

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7334	51	82/02/20	1807:41	1807:52	215	132	8074	3		I
4723	51	82/02/20	2158:40	2159:45	181	138	3972	2		SG,DG
4724	52	82/02/21	0028:30	0029:00	75	60		2		
4725	52	82/02/21	0122:10	0125:25	311	61	2522	2		
4726	52	82/02/21	1055:00	1055:15	50	75		2		
4727	52	82/02/21	1357:30	1357:50	55	68		2		
4728	52	82/02/21	1852:15	1852:40	60	58		2		
4729	53	82/02/22	0206:25	0207:20	120	71		2		
4730	53	82/02/22	0726:10	0726:30	45	60		2		
4732	53	82/02/22	1208:40	1209:15	253	75	2394	2		
4733	54	82/02/23	0006:40	0006:55	40	51		2		
4734	54	82/02/23	0015:15	0015:45	60	74		2		
4735	54	82/02/23	0152:40	0154:58	257	63	2559	2		
4736	54	82/02/23	0312:42	0314:35	560	531	39173	5		M
4737	54	82/02/23	0514:40	0516:27	221	188	6518	3		
4738	54	82/02/23	0530:00	0530:25	70	54		2		
4739	54	82/02/23	1746:11	1746:41	127	58		2		
4740	55	82/02/24	0045:18	0045:38	45	48		2		
4741	55	82/02/24	0330:38	0331:20	273	105	2005	4		
4742	55	82/02/24	0509:05	0509:25	58	248	2331	5		
4743	55	82/02/24	0627:20	0627:21	135	148	3643	7		SA,AX
4744	55	82/02/24	0633:30	0649:31	1903	105	43004	2		
4745	55	82/02/24	1134:10	1135:49	195	112	4104	2		
4746	55	82/02/24	1141:25	1142:19	123	59		2		
4747	55	82/02/24	1449:30	1450:25	194	96		2		
4748	55	82/02/24	1549:50	1551:40	283	168	1.99E+05	2		EG,DG,ND
4749	55	82/02/24	1917:20	1918:15	120	79		2		
4750	55	82/02/24	2029:14	2029:45	55	77	730	9		NS,GB
4751	56	82/02/25	0338:15	0340:50	232	119	3141	2		
4752	56	82/02/25	0514:20	0517:05	264	125	4281	2		EN
7339	56	82/02/25	0621:40	0622:00	89	59		2		I
7340	56	82/02/25	0623:28	0624:02	47	72		2		I
4753	56	82/02/25	0947:30	0949:40	180	75		2		DG
4754	56	82/02/25	0951:20	0951:50	60	67		2		
4755	56	82/02/25	0952:35	0954:35	145	86		2		
4756	56	82/02/25	1438:40	1439:20	95	143	2399	3		
4757	56	82/02/25	1442:20	1442:50	206	111	2125	2		
4758	56	82/02/25	1605:20	1606:40	175	152	4651	2		
7344	56	82/02/25	1852:16	1852:40	68	138	1867	2		I
7345	56	82/02/25	1906:43	1906:54	108	79		2		I
7346	56	82/02/25	1919:17	1919:29	15	98		2		I
4759	56	82/02/25	2017:15	2017:50	121	111	2602	5		
4760	56	82/02/25	2151:25	2152:35	251	1028	59603	9		M
4761	56	82/02/25	2236:30	2237:15	110	86		7		
4762	57	82/02/26	0016:05	0018:50	342	189	21656	14		AX
4763	57	82/02/26	0306:10	0319:40	1425	167	45574	2	3628	EN
4764	57	82/02/26	0424:55	0425:40	120	100	1933	2		
4765	57	82/02/26	0924:30	0924:50	110	89		2		
4766	57	82/02/26	1413:50	1414:18	40	60		2		
4767	57	82/02/26	1516:50	1519:20	371	255	9012	5	3625	M ,FS
4768	57	82/02/26	1724:35	1725:24	123	69		2		
4769	57	82/02/26	1735:30	1736:24	109	326	4730	5		M ,FS
4770	57	82/02/26	2002:50	2004:20	295	84		5		
4774	57	82/02/26	2029:00	2029:25	85	75		2		
4771	57	82/02/26	2048:50	2049:30	55	75		2		
4772	57	82/02/26	2136:05	2139:40	716	190	38762	6		
4776	57	82/02/26	2202:25	2202:40	65	59		2		
4773	57	82/02/26	2312:20	2312:30	60	54		2		
4777	57	82/02/26	2350:00	2350:45	145	59		5		
4778	58	82/02/27	0434:35	0434:50	55	85		2		
6300	58	82/02/27	0444:06	0444:20	56	61		2		
4775	58	82/02/27	2121:55	2125:00	552	70	5953	4		
7321	58	82/02/27	2214:54	2215:00	30	63		2		I
4779	59	82/02/28	1940:45	1941:08	67	59		2		
4780	60	82/03/01	0112:58	0113:05	18	75		2		
12776	60	82/03/01	0235:53	0236:00	168	65	1330	14		NS,GB
4781	60	82/03/01	0235:54	0239:08	301	418	15700	14		
4782	60	82/03/01	0535:42	0537:05	114	70		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7347	60	82/03/01	1040:22	1040:54	43	69		2		I
4783	60	82/03/01	1634:50	1636:05	218	104	5271	4		
4784	60	82/03/01	1917:19	1917:43	44	60		2		
4785	60	82/03/01	1924:08	1924:35	47	408	3288	5		M
4786	60	82/03/01	2053:00	2054:29	703	153	14757	5		
4787	60	82/03/01	2137:00	2138:54	151	78		4		
4788	60	82/03/01	2228:44	2237:55	804	751	1.35E+05	6		M
4789	61	82/03/02	0001:34	0020:40	1585	160	40684	4		
4790	61	82/03/02	0039:56	0047:35	1365	260	1.50E+05	7		EN
4791	61	82/03/02	0823:30	0824:15	85	74		2		
4792	61	82/03/02	1510:17	1510:25	15	70		2		
4793	61	82/03/02	1558:38	1600:30	629	135	9568	2		
4794	61	82/03/02	1644:12	1645:10	106	64		2		
4795	61	82/03/02	2120:00	2120:45	140	64		5		
4796	61	82/03/02	2257:25	2259:15	182	60		4		
4797	61	82/03/02	2303:49	2305:18	205	74		5		
4798	62	82/03/03	0124:24	0124:25	277	256	13713	9		SA,AX
4799	62	82/03/03	1130:55	1133:05	297	105	2934	2		
12704	62	82/03/03	1621:49	1621:53	11	44	32	14		NS,GB
4800	63	82/03/04	0145:14	0147:08	282	170	10343	2		
4801	63	82/03/04	1303:30	1303:40	20	58		2		
4802	63	82/03/04	1420:40	1420:55	74	213	213	3		
4803	63	82/03/04	2059:14	2059:30	80	183	1629	2		
4804	63	82/03/04	2214:05	2215:12	172	163	4395	2		
4805	63	82/03/04	2241:50	2242:11	50	63		2		
7348	63	82/03/04	2320:56	2321:49	98	57		5		I
4806	64	82/03/05	0141:25	0141:58	122	61		2		
4807	64	82/03/05	0241:26	0243:34	1032	1481	1.54E+05	5	3629	M
4808	64	82/03/05	0506:18	0506:50	60	60		2		
4809	64	82/03/05	0640:52	0641:52	77	501	11735	5		M ,EN
12705	64	82/03/05	0920:09	0920:13	8	102	176	8		NS,GB
4810	64	82/03/05	1102:06	1102:17	50	64		2		
4814	64	82/03/05	1828:15	1828:50	120	61		2		
4815	64	82/03/05	1854:35	1854:55	90	86		2		
4813	64	82/03/05	1902:35	1903:07	199	60		2		
4816	64	82/03/05	2001:55	2004:15	190	62		2		
4817	64	82/03/05	2040:35	2042:05	140	64		5		
4818	64	82/03/05	2053:30	2054:15	73	170	3404	2		
4819	64	82/03/05	2137:50	2139:50	200	76		5		
4820	64	82/03/05	2150:35	2151:45	185	59		2		
4821	64	82/03/05	2220:05	2221:05	270	74	3123	2		
4822	65	82/03/06	0136:55	0137:10	65	90		2		EW
4823	65	82/03/06	0242:45	0243:35	80	58		2		EW
4824	65	82/03/06	0803:15	0803:45	38	173	1458	3		
4825	65	82/03/06	1105:25	1105:50	50	62		2		
4826	65	82/03/06	1225:00	1225:35	65	61		2		
4827	65	82/03/06	2121:23	2123:15	244	198	9644	5		AX
4828	65	82/03/06	2302:24	2304:32	180	74		2		
4829	66	82/03/07	0120:05	0120:43	107	53		2		
4830	66	82/03/07	0246:24	0304:46	1123	2833	2.59E+05	10	3628	M ,EN,FS
4831	66	82/03/07	0405:40	0420:35	2069	289	2.50E+05	7		EN
4832	66	82/03/07	0614:13	0614:20	31	62		2		
4833	66	82/03/07	1351:40	1352:32	203	1481	49262	8		M ,FS
4834	66	82/03/07	1715:49	1716:38	76	70		2		
4835	66	82/03/07	1958:42	1958:51	50	75		2		
4836	66	82/03/07	2002:00	2002:22	160	66		2		
4837	66	82/03/07	2010:48	2011:46	148	97		4		AX
4838	67	82/03/08	0043:45	0044:15	66	56		2		
4839	67	82/03/08	0358:27	0358:51	40	52		2		
4840	67	82/03/08	1303:56	1307:26	324	111	6585	2		
4841	67	82/03/08	1312:20	1313:32	160	87		2		
4842	67	82/03/08	1940:44	1947:12	631	206	27624	3		
4843	67	82/03/08	1956:58	2017:38	1267	1482	2.60E+05	7	3628	
4844	68	82/03/09	0533:22	0533:49	90	62		2		
4845	68	82/03/09	2254:25	2300:50	693	132	28720	5		AX
4846	68	82/03/09	2312:15	2313:55	153	122	1090	2		
4847	70	82/03/11	0254:22	0254:58	98	99		2		
4848	70	82/03/11	0613:39	0614:14	44	60		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4849	70	82/03/11	1557:00	1557:30	45	81		2		
4850	71	82/03/12	1241:00	1241:25	110	91		2		EW
12706	72	82/03/13	0240:30	0240:47	61	55	382	9		NS,GB
4851	72	82/03/13	1523:20	1524:00	60	58		2		
4852	73	82/03/14	2114:56	2115:04	43	163	854	4		
4853	74	82/03/15	0032:07	0032:54	79	58		2		
4855	74	82/03/15	0725:50	0726:20	55	60		2		
4856	74	82/03/15	1626:20	1627:05	80	66		4		
4857	74	82/03/15	1804:02	1804:40	76	62		5		
4858	75	82/03/16	0156:10	0156:33	48	220	2008	3		
4859	75	82/03/16	0809:36	0809:46	58	68		2		
4860	75	82/03/16	1118:30	1120:25	180	65		2		
4861	76	82/03/17	0153:15	0155:33	184	74		2		
4865	76	82/03/17	0957:09	0958:11	62	64		2		
4866	76	82/03/17	1010:16	1011:01	98	63		2		
4862	76	82/03/17	1107:18	1108:16	119	129	2438	2		
4863	76	82/03/17	1111:31	1117:18	609	107	8605	2		
4864	76	82/03/17	1153:39	1154:24	69	55		2		
4867	76	82/03/17	1239:05	1239:30	60	100	1186	2		
4868	76	82/03/17	1240:15	1241:23	155	75		2		
4869	76	82/03/17	1306:25	1306:40	35	84		2		
4870	76	82/03/17	1424:27	1424:58	81	235	3952	4		
4871	76	82/03/17	1504:58	1505:07	30	75		2		
4872	76	82/03/17	2202:46	2203:03	130	155	2968	2		
4873	77	82/03/18	0816:00	0816:50	171	107	3713	2		
4874	77	82/03/18	1045:05	1045:50	70	66		2		
7352	77	82/03/18	1054:01	1054:18	30	60		2		
4876	77	82/03/18	1230:40	1231:35	208	243	6746	2		
4877	77	82/03/18	1354:58	1355:15	134	279	26420	2		SG
4878	77	82/03/18	1544:00	1544:45	90	62		2		
4879	77	82/03/18	1721:55	1722:45	163	109	2528	4		
4880	77	82/03/18	1741:35	1742:00	55	61		2		
4881	77	82/03/18	2040:20	2041:06	94	123	1005	2		EW
4882	77	82/03/18	2042:09	2043:17	123	54		2		EW
4883	77	82/03/18	2341:20	2342:25	125	56		2		
7353	78	82/03/19	0153:38	0153:49	13	68		2		I
4884	78	82/03/19	0419:00	0420:25	170	75		2		
4885	78	82/03/19	0435:35	0459:05	1761	371	39650	3	3643	M
4886	78	82/03/19	0918:35	0918:45	30	64		2		
4887	78	82/03/19	1253:50	1254:05	70	91		2		
4888	78	82/03/19	1424:25	1424:40	50	58		2		
4889	78	82/03/19	1532:35	1534:30	1454	173	38296	2	3643	
4890	78	82/03/19	2002:25	2002:44	56	60		2		
4891	78	82/03/19	2003:56	2004:16	46	167	2201	4		
4892	79	82/03/20	0102:35	0103:40	170	94		2		
12707	79	82/03/20	1310:13	1310:38	34	43	147	8		NS,GB
4893	80	82/03/21	0404:45	0406:10	195	63		2		
4894	80	82/03/21	0744:20	0745:05	214	342	6991	3		
4895	80	82/03/21	0911:35	0914:05	200	62		2		
4896	80	82/03/21	1150:20	1150:55	70	55		2		
4897	80	82/03/21	1323:00	1325:00	180	75		4		
4898	80	82/03/21	1452:55	1453:10	42	195	1054	3		M
4899	80	82/03/21	1815:10	1816:10	73	122	1352	2		
4900	80	82/03/21	2140:45	2141:20	120	65		2		
4901	80	82/03/21	2147:55	2148:15	35	89		2		
4902	81	82/03/22	0033:20	0034:05	120	63		2		
4903	81	82/03/22	0044:55	0045:35	165	85		2		
4904	81	82/03/22	0152:40	0153:00	115	71		2		
7354	81	82/03/22	0357:24	0358:21	77	72		2		I
7355	81	82/03/22	0406:58	0407:20	152	147	5656	2		I
7356	81	82/03/22	0422:15	0422:50	63	57		2		I
7357	81	82/03/22	0511:48	0512:21	117	78		2		I
7358	81	82/03/22	0517:33	0518:13	109	84		2		I
7359	81	82/03/22	0546:30	0546:57	58	55		2		I
7360	81	82/03/22	0555:31	0600:24	379	1063	35477	7		M ,I
7362	81	82/03/22	0639:23	0639:38	29	60		2		I
7361	81	82/03/22	0640:39	0641:02	167	113	2217	2		I
7363	81	82/03/22	0652:27	0653:13	67	71		2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4905	81	82/03/22	0822:13	0822:37	65	105	1037	2		
4906	81	82/03/22	0825:52	0826:34	113	68		2		
4907	81	82/03/22	0909:15	0909:49	73	70		2		
4908	81	82/03/22	1128:01	1128:51	161	87		12		AX
4909	81	82/03/22	1218:03	1218:11	96	63		2		
7373	81	82/03/22	1307:31	1309:29	223	112	4946	4		I
7374	81	82/03/22	1456:51	1457:18	98	52		2		I
4910	81	82/03/22	1624:07	1625:45	319	303	14091	2	3650	FS
4915	81	82/03/22	2252:17	2252:46	60	70		2		EW
4916	81	82/03/22	2303:29	2303:34	14	76		2		EW
4911	82	82/03/23	0016:53	0016:58	42	72		2		
6763	82	82/03/23	0140:00	0140:41	131	76	1215	2		I
6764	82	82/03/23	0201:59	0202:16	31	60		2		I
6765	82	82/03/23	0211:09	0211:55	85	69		2		I
6766	82	82/03/23	0217:34	0217:38	7	60		2		I
4917	82	82/03/23	0314:07	0316:36	198	56		2		AX,EW
4918	82	82/03/23	0328:33	0329:07	75	74		2		EW
7375	82	82/03/23	0457:36	0457:44	18	70		2		I
7376	82	82/03/23	0516:09	0518:27	662	430	62401	4		I
7377	82	82/03/23	0543:23	0544:18	97	146	823	3		I
4912	82	82/03/23	0627:02	0627:21	34	73		2		
4919	82	82/03/23	0645:23	0645:55	54	78		2		EW
7378	82	82/03/23	0657:58	0658:11	35	56		2		I
4920	82	82/03/23	0714:54	0715:34	91	284	4297	2		ND,EW
4913	82	82/03/23	0855:05	0855:39	165	85		2		
7379	82	82/03/23	0953:03	0953:21	53	192	1660	2		I
7380	82	82/03/23	0957:10	0957:18	13	60		2		I
7381	82	82/03/23	1018:03	1018:15	27	52		2		I
4914	82	82/03/23	1116:01	1116:09	16	136	334	2		
7382	82	82/03/23	1258:19	1258:28	18	261	617	3		I
7383	82	82/03/23	1301:40	1302:19	76	77		2		I
7384	82	82/03/23	1319:12	1319:39	57	48		2		I
7385	82	82/03/23	1330:34	1330:56	69	143	1836	2		I
4921	82	82/03/23	1931:02	1931:13	26	105	389	2		
4922	82	82/03/23	2100:12	2102:03	189	92		2		
4923	82	82/03/23	2107:58	2108:17	114	80		3		
7386	82	82/03/23	2256:43	2256:50	21	99		2		I
4924	82	82/03/23	2355:52	2356:23	83	129	1501	3		
4925	83	82/03/24	0019:32	0020:43	192	85		2		
4926	83	82/03/24	0032:26	0035:07	182	89		2		
7387	83	82/03/24	0210:12	0210:20	14	99		2		I
7388	83	82/03/24	0215:37	0215:52	23	71		2		I
7389	83	82/03/24	0217:30	0218:10	50	58		2		I
4927	83	82/03/24	0350:39	0351:06	73	63		2		
4928	83	82/03/24	0457:30	0457:40	135	780	13930	4		
4929	83	82/03/24	0626:00	0626:06	18	67		2		
4930	83	82/03/24	0654:51	0655:13	66	575	6681	5		
7390	83	82/03/24	0751:21	0751:43	61	126	842	2		I
4931	83	82/03/24	1137:35	1137:40	19	64		2		
12708	83	82/03/24	1221:19	1221:24	9	47	63	9		NS,GB
7391	83	82/03/24	1249:20	1249:43	97	76		2		I
7392	83	82/03/24	1405:25	1406:58	177	59		2		I
4932	83	82/03/24	2034:15	2034:56	194	281	10208	4		EW
4933	83	82/03/24	2200:19	2201:08	350	106	6313	2	3659	SN
4934	84	82/03/25	0139:20	0140:59	121	165	54999	2		EG,ND
4935	84	82/03/25	0307:27	0307:42	94	85		2		
4936	84	82/03/25	0606:04	0608:52	672	137	12094	3		
4937	84	82/03/25	0639:35	0640:14	61	54		2		
4938	84	82/03/25	0932:04	0932:18	31	92		2		
4939	84	82/03/25	1057:05	1057:22	40	67		2		
4940	84	82/03/25	1131:11	1131:27	47	66		2		
7397	84	82/03/25	1224:08	1224:16	16	98		2		I
7398	84	82/03/25	1227:14	1227:44	60	85		2		I
7399	84	82/03/25	1903:35	1904:01	41	54		2		I
7400	84	82/03/25	2216:43	2217:05	90	131	92	2		I
7401	84	82/03/25	2352:45	2352:51	14	64		2		I
4941	85	82/03/26	0546:55	0549:09	377	4635	1.42E+05	12		M
7402	85	82/03/26	1845:15	1845:26	29	120	1558	2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4942	85	82/03/26	2137:20	2137:50	85	110	1816	2		
4943	85	82/03/26	2143:20	2144:05	45	80		2		
4944	86	82/03/27	0216:35	0217:25	530	126	9089	2		
4945	86	82/03/27	0301:55	0302:25	79	144	2250	3		
4946	86	82/03/27	0305:20	0305:30	45	64		2		
4947	86	82/03/27	0408:30	0409:45	125	71		2		
4948	86	82/03/27	0912:05	0914:25	373	121	6193	2		
7403	86	82/03/27	1032:52	1033:23	47	54		2		I
4949	86	82/03/27	1413:45	1415:50	462	5029	6.29E+05	6	3659	EN,SA
4950	86	82/03/27	1518:00	1518:30	180	1121	18427	5		M ,EW
4951	86	82/03/27	1825:50	1826:50	85	56		2		EW
4952	86	82/03/27	2303:30	2304:05	40	89		2		
7406	86	82/03/27	2328:59	2329:21	70	41		2		I
7409	87	82/03/28	0358:25	0358:41	41	320	2413	3		M ,I
7410	87	82/03/28	0430:00	0433:38	335	331	12291	4		I
7411	87	82/03/28	0518:27	0518:34	37	68		2		I
7412	87	82/03/28	0554:19	0554:29	25	227	1186	2		I
7413	87	82/03/28	0558:28	0559:06	61	105	1419	2		I
4953	87	82/03/28	0902:35	0904:05	105	67		2		
4954	87	82/03/28	0915:55	0916:25	40	58		2		
8148	87	82/03/28	1316:43	1317:17	200	88		2		I
12709	87	82/03/28	1437:36	1437:38	13	59	122	10		NS,GB
7414	87	82/03/28	1452:22	1452:41	58	71		2		I
7415	87	82/03/28	2000:14	2000:54	87	100	2021	2		I
4955	88	82/03/29	0059:10	0059:35	60	97		2		
4956	88	82/03/29	0331:20	0332:25	204	156	6718	3		
4957	88	82/03/29	0354:40	0356:10	272	73	3604	2		
4958	88	82/03/29	0415:25	0416:40	135	141	1774	2		
4959	88	82/03/29	0905:20	0907:25	137	1123	17372	4	3659	M
7416	88	82/03/29	0943:21	0944:00	83	56		2		I
7417	88	82/03/29	0950:33	0950:50	30	135	1020	9		I ,NS,GB
7418	88	82/03/29	1038:15	1038:25	20	108	457	2		I
4960	88	82/03/29	1437:49	1438:05	55	60		2		
4961	88	82/03/29	1623:27	1624:08	83	68		2		
7419	88	82/03/29	1939:45	1940:24	97	470	6792	3		M ,I
7420	88	82/03/29	1943:46	1945:09	259	112	5202	2		I
4962	88	82/03/29	2109:27	2111:13	236	212	5684	2		
7421	88	82/03/29	2259:20	2300:42	150	91		2		I
4974	89	82/03/30	0015:10	0015:25	25	96		2		
4963	89	82/03/30	0220:36	0221:03	47	64		2		
4964	89	82/03/30	0232:00	0233:04	77	99		2		
4965	89	82/03/30	0521:10	0537:14	1326	18903	6.47E+06	15	3659	SN
4966	89	82/03/30	0802:20	0803:14	89	60		2		
4967	89	82/03/30	0834:10	0835:48	253	375	6721	3		M
7422	89	82/03/30	1108:53	1109:09	70	140	2612	2		I
7423	89	82/03/30	1120:19	1120:38	64	62		2		I
4968	89	82/03/30	1417:32	1419:08	678	459	74222	3	3659	M
4969	89	82/03/30	1601:20	1601:52	165	75		2		
4970	89	82/03/30	1747:10	1748:05	70	65		2		
4971	89	82/03/30	2049:15	2049:20	21	124	513	2		
4972	89	82/03/30	2058:20	2058:55	113	367	4076	3		
4973	89	82/03/30	2252:05	2252:15	85	91		2		
4975	90	82/03/31	0123:05	0126:15	779	182	21777	2		
4976	90	82/03/31	0204:05	0204:50	128	132	2935	2		
4977	90	82/03/31	0312:10	0312:25	85	358	4473	3		M
4980	90	82/03/31	0611:00	0615:54	1268	1498	79573	5		M ,FS
4981	90	82/03/31	0701:55	0702:14	50	52		2		
4978	90	82/03/31	0833:05	0834:25	354	3248	1.86E+05	5	3659	M
4979	90	82/03/31	1146:40	1147:10	40	60		2		
8013	90	82/03/31	1520:37	1520:47	11	23				EN,IN,NS,GB
4982	90	82/03/31	1553:26	1553:51	60	91		2		
4983	90	82/03/31	1713:36	1714:28	107	115	1043	2		
7424	90	82/03/31	1859:00	1900:01	101	91		2		I
4984	90	82/03/31	2221:52	2225:33	1038	7677	5.76E+05	9	3659	M ,ND
4985	91	82/04/01	0556:06	0557:15	222	207	8469	2		
7425	91	82/04/01	0750:45	0751:13	60	56		2		I
4986	91	82/04/01	1848:06	1848:40	85	113	1016	2		
4987	91	82/04/01	2349:35	2349:45	35	244	1684	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
4988	92	82/04/02	0407:25	0407:30	55	60		2		
4989	92	82/04/02	0901:20	0907:50	1177	8452	5.24E+05	13	3659	FS
4990	92	82/04/02	1703:30	1704:15	133	194	3726	5		
4991	92	82/04/02	2347:42	2348:14	74	107	1579	3		
4992	93	82/04/03	0133:46	0135:02	148	59		2		
4993	93	82/04/03	0242:47	0243:10	102	64		2		
4994	93	82/04/03	0718:51	0719:04	22	60		2		
4995	93	82/04/03	0735:43	0736:16	40	79		2		
4996	93	82/04/03	0743:05	0744:38	303	107	3828	2		
4997	93	82/04/03	0753:37	0755:36	242	73	3572	2	3658	EN
7440	93	82/04/03	1227:19	1228:42	375	225	9038	3		I ,SA
7441	93	82/04/03	1411:30	1411:45	80	107	1192	2		I
4998	93	82/04/03	1455:40	1456:15	288	57	5464	3		EW
4999	93	82/04/03	2011:45	2012:00	65	60		2		
5000	94	82/04/04	0402:10	0402:40	59	163	2138	2		
5001	94	82/04/04	1355:45	1400:10	344	89	1703	2		
5002	94	82/04/04	1814:15	1814:35	75	76		2		
5003	95	82/04/05	0845:30	0847:30	232	111	4480	2		
5004	95	82/04/05	1616:02	1617:18	194	78		2		EW
5005	97	82/04/07	1221:30	1222:30	125	63		2		
5006	98	82/04/08	1353:40	1354:35	107	117	845	2		
5007	99	82/04/09	0424:59	0426:25	132	59		2		EW
5008	99	82/04/09	2219:15	2219:35	90	69		2		
5009	99	82/04/09	2350:40	2351:50	205	170	7158	2		SG
6767	100	82/04/10	0230:46	0242:00	855	58	3069	2		
5010	100	82/04/10	2333:45	2334:10	145	93		2		
5011	100	82/04/10	2337:05	2337:40	65	58		2		
5012	101	82/04/11	0331:30	0335:45	626	245	9254	2		
5013	101	82/04/11	1346:50	1347:35	297	106	4462	2		
5014	101	82/04/11	1752:00	1753:00	89	206	2643	3		
5015	101	82/04/11	1952:00	1952:50	130	62		2		
5016	101	82/04/11	2105:15	2105:50	170	94		6		
5017	101	82/04/11	2241:25	2242:40	180	64		2		
5018	101	82/04/11	2329:25	2329:55	143	59		2	3688	
7444	102	82/04/12	1249:39	1250:05	161	266	8401	2		M ,I
7445	102	82/04/12	1424:25	1424:42	32	85		2		I
5019	102	82/04/12	1606:45	1608:45	502	352	11417	4		
5020	102	82/04/12	1829:55	1830:25	75	71		2		
5021	102	82/04/12	2225:40	2226:55	522	125	8281	5		
5022	102	82/04/12	2315:15	2315:55	105	56		2		
5023	103	82/04/13	0046:15	0048:35	185	62		3		
5024	103	82/04/13	1631:24	1632:21	155	74		2		
5025	104	82/04/14	0124:04	0124:08	30	56		2		EW
5026	104	82/04/14	0248:08	0249:38	1162	193	61396	5	3684	SN,EW
5027	105	82/04/15	1239:46	1240:17	62	59		2		
5028	106	82/04/16	0229:14	0229:46	67	57		2		
7446	106	82/04/16	1416:02	1416:48	114	359	5252	6		M ,I
8547	106	82/04/16	1556:09	1556:10	7	51	61	8		NS,GB
5029	106	82/04/16	2120:45	2125:30	573	776	1.24E+05	8	3693	M ,FS,EW
5030	106	82/04/16	2343:30	2347:30	433	185	16420	13		
5031	107	82/04/17	0034:40	0036:45	170	69		3		EW
5032	107	82/04/17	0104:55	0108:05	282	93	4621	2		EW
5033	107	82/04/17	2104:55	2106:20	592	176	27693	5		SN,SG
5034	107	82/04/17	2150:10	2152:20	300	76		5		
5035	108	82/04/18	2049:05	2050:55	558	90	13811	4		SN,AX
5036	108	82/04/18	2133:55	2134:40	155	68		3		
5037	108	82/04/18	2253:20	2254:00	100	65		2		
5038	109	82/04/19	0003:01	0003:30	162	64		2		
5039	109	82/04/19	1019:14	1021:40	351	659	42910	7		M
5040	109	82/04/19	1810:21	1811:28	812	3645	3.14E+05	8	3696	
5041	110	82/04/20	2158:53	2159:17	183	71		3		
5042	111	82/04/21	2007:09	2008:30	182	83		4		AX
5043	111	82/04/21	2048:04	2049:10	173	56		5		AX
5044	111	82/04/21	2222:43	2224:11	166	77		5		AX
5045	112	82/04/22	1243:55	1251:40	663	240	40833	3		EN
5046	112	82/04/22	2028:21	2028:58	75	73		2		DG
5047	113	82/04/23	0036:46	0036:59	36	194	1685	4		
5048	113	82/04/23	0724:29	0725:04	61	58		2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	5049	113	82/04/23	0902:49	0903:22	74	83		2		
	5050	113	82/04/23	1957:25	1957:45	45	66		2		
	5051	114	82/04/24	2135:00	2139:30	578	68	4831	2		
	5052	116	82/04/26	2359:16	0001:40	196	60		2		
	7451	117	82/04/27	0749:06	0750:47	396	79	1459	2		I
*	5053	117	82/04/27	1057:19	1057:44	54	79		2		
*	5054	117	82/04/27	1912:20	1913:18	133	65		5		AX
*	5055	119	82/04/29	1219:15	1219:45	95	73		2		
	7452	119	82/04/29	2014:33	2018:33	542	82	8627	4		I
*	5056	120	82/04/30	1501:35	1503:00	140	69		3		AX
*	5057	120	82/04/30	1816:40	1818:00	165	72		4		AX
*	5058	120	82/04/30	1954:30	1955:50	369	72	3144	5		AX,EW
*	5059	120	82/04/30	2003:50	2007:30	394	61	1173	2		
*	5060	121	82/05/01	1446:30	1447:00	70	72		2		AX
*	5061	121	82/05/01	1624:00	1625:15	115	50		2		AX
*	5062	121	82/05/01	1800:20	1801:45	208	195	49150	5		DG,EW
*	5063	122	82/05/02	0327:00	0331:25	422	75	2826	2		
*	5064	122	82/05/02	0344:20	0349:10	587	91	3490	2		
*	5065	122	82/05/02	0936:35	0936:50	40	66		2		
	8269	122	82/05/02	1316:55	1316:57	3	45	8			NS,GB
*	5066	122	82/05/02	1427:40	1429:00	115	179	4213	6		AX
*	5067	122	82/05/02	1452:20	1453:00	75	55		2		
*	5068	122	82/05/02	1606:25	1607:25	90	102	3085	6		AX
*	5069	122	82/05/02	1742:50	1744:20	180	93		6		AX
*	5070	122	82/05/02	1909:10	1921:35	1441	67	6785	2		AX
*	5071	123	82/05/03	1111:36	1112:13	87	146	1175	3		
*	3888	123	82/05/03	1551:26	1552:22	61	60		2		
*	5072	123	82/05/03	1730:22	1731:24	172	106	3055	5		AX
*	5073	123	82/05/03	1900:39	1901:41	317	199	12509	2		EW
*	5074	123	82/05/03	2030:56	2032:14	150	97		2		
*	5075	123	82/05/03	2346:45	2347:42	140	68		2		EW
*	5076	124	82/05/04	0006:51	0007:33	120	197	5500	3	3717	EW
*	5077	124	82/05/04	0256:40	0257:06	107	66		2		
*	5078	125	82/05/05	0054:29	0055:22	73	76		2		
*	5079	126	82/05/06	1658:53	1659:08	47	510	8133	5		
*	5080	126	82/05/06	1952:28	1952:38	30	88		5		
*	5081	126	82/05/06	2136:37	2136:47	54	67		2		
*	5082	127	82/05/07	0210:41	0210:58	89	82		2		
*	5084	130	82/05/10	0555:20	0555:35	45	96		2		
*	5085	130	82/05/10	0604:50	0605:00	125	71		3		
*	5086	130	82/05/10	0938:20	0938:50	65	88		2		
*	5087	130	82/05/10	1311:00	1312:19	107	87		2		
*	5088	131	82/05/11	0321:07	0321:24	79	534	7597	5	3717	M1,FS
*	5089	131	82/05/11	0718:21	0718:56	61	66		2		
*	5090	133	82/05/13	1051:19	1051:28	131	57		2		
*	5091	133	82/05/13	1309:06	1311:17	478	78	7262	3		
	7455	135	82/05/15	1243:29	1244:01	67	95		3		I
*	5092	136	82/05/16	0756:15	0756:30	115	64		13		
*	5093	137	82/05/17	0849:25	0851:10	292	86	5284	4		
*	5094	137	82/05/17	2149:49	2150:13	46	60		2		
*	5095	137	82/05/17	2319:04	2320:54	305	267	10159	3		
*	5096	138	82/05/18	0223:37	0224:15	51	112	1024	4		
*	5098	138	82/05/18	1812:40	1813:00	175	77		2		
*	5100	138	82/05/18	2141:25	2142:30	80	176	1539	2		
*	5097	139	82/05/19	0529:35	0529:45	160	67		2		
	7456	139	82/05/19	1408:44	1408:55	31	122	675	2		I
*	5099	139	82/05/19	1938:30	1939:05	90	74		2		
*	5101	140	82/05/20	0149:50	0151:15	514	84	5475	2		
	7457	140	82/05/20	0325:39	0327:53	165	53		2		I
	7458	140	82/05/20	0532:50	0536:09	477	172	17116	2		I
*	5102	140	82/05/20	1426:50	1427:40	805	121	13837	2	3740	SN
*	5103	141	82/05/21	0307:20	0308:05	150	52		2		
	7459	141	82/05/21	1414:10	1423:27	1012	143	2.84E+05	5		I ,ES
*	5104	142	82/05/22	0037:43	0039:12	585	310	37188	2	3740	EW
*	5105	142	82/05/22	0253:35	0256:55	343	94	5767	2		
*	5106	142	82/05/22	0435:04	0435:37	51	50		2		
*	5107	142	82/05/22	0441:16	0441:40	88	209	3080	2		
	7461	142	82/05/22	1708:20	1708:20	204	70		2		I

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	7462	142	82/05/22	2040:44	2041:17	107	132	2591	3		I
*	5108	142	82/05/22	2232:18	2232:41	41	87		2		
*	5109	143	82/05/23	0243:25	0245:17	680	359	24382	2	3740	
	7463	143	82/05/23	1842:14	1844:56	463	2061	64951	5		I ,FS
*	5110	145	82/05/25	0222:11	0222:19	23	115	474	2		
*	5111	146	82/05/26	0345:05	0345:22	121	97		2		
	7468	146	82/05/26	1844:00	1846:21	210	63		2		I
	7469	146	82/05/26	1926:50	1927:07	35	59		2		I
	7470	146	82/05/26	2022:10	2023:04	116	54		2		I
*	5112	146	82/05/26	2116:55	2118:40	150	101	3468	2		
*	5113	146	82/05/26	2119:35	2119:55	90	68		2		
*	5114	147	82/05/27	0507:42	0508:05	71	127	1739	2		
*	5115	147	82/05/27	0549:50	0550:05	35	61		2		
	7471	147	82/05/27	1200:46	1200:54	13	68		2		I
	7472	147	82/05/27	2356:14	2357:16	130	61		2		I
*	5118	148	82/05/28	0055:08	0055:21	30	63		2		
	7473	148	82/05/28	0221:36	0222:07	64	74		2		I
*	5119	148	82/05/28	0303:20	0305:36	347	177	13645	2	3739	
*	5120	148	82/05/28	0327:33	0328:22	140	166	5341	2		
	7474	148	82/05/28	0830:16	0830:24	47	60		2		I
*	5121	148	82/05/28	1456:32	1456:57	300	178	6727	4		
*	5116	148	82/05/28	1608:24	1609:21	98	261	4788	2		EW
	7487	148	82/05/28	1638:20	1639:12	118	92		2		I
	7488	148	82/05/28	1920:40	1920:54	199	125	4551	2		I
	7489	148	82/05/28	1946:19	1946:32	33	115	571	2		I
	7490	148	82/05/28	2114:07	2114:20	31	79		2		I
*	5122	148	82/05/28	2215:51	2217:41	168	141	2675	2		
*	5117	148	82/05/28	2229:49	2230:53	373	109	8117	5		EW
	7493	148	82/05/28	2343:28	2344:42	933	145	18155	4		I
	7494	149	82/05/29	0034:12	0035:11	127	62		2		I
*	5123	149	82/05/29	0518:43	0519:39	93	87		2		
*	5124	149	82/05/29	0620:42	0627:00	631	86	7898	2		
*	5125	149	82/05/29	0647:53	0648:13	43	79		2		
*	5126	149	82/05/29	0659:23	0700:20	67	85		2		
*	5127	149	82/05/29	0819:43	0820:05	146	152	2724	2		EW
*	5128	149	82/05/29	0947:19	0948:14	68	71		2		EW
*	5129	149	82/05/29	1002:08	1002:23	46	78		2		EW
	6243	149	82/05/29	1258:05	1258:27	148	129	3518	2		I
	6244	149	82/05/29	1318:17	1321:08	184	95		2		I ,EN
*	5130	149	82/05/29	1535:17	1535:45	67	136	1581	2		
	6245	149	82/05/29	1704:15	1704:21	77	53		2	3740	I
	6246	149	82/05/29	1718:26	1720:14	181	82	9391	2		I
	6247	149	82/05/29	2017:17	2017:42	159	95		2		I
	6248	149	82/05/29	2021:44	2022:48	286	277	14943	2		I
	6249	149	82/05/29	2055:36	2100:27	786	407	36586	3	3739	I
	6250	149	82/05/29	2149:24	2203:52	2578	3610	1.71E+06	8	3739	M1,I ,SN
*	5131	150	82/05/30	0600:50	0602:02	692	196	32539	2		SA
*	5132	150	82/05/30	0949:29	0949:35	56	281	2390	14		ND,NS,GB
*	5133	150	82/05/30	2140:27	2142:08	376	83	5255	5		AX
*	5134	150	82/05/30	2234:38	2235:46	101	98		2		
*	5135	151	82/05/31	0141:34	0143:48	296	109	8548	6		AX,EW
*	5136	151	82/05/31	0303:35	0310:10	691	781	41976	5	3748	M1
*	5137	151	82/05/31	0725:21	0725:53	55	95		2		
	7495	151	82/05/31	1851:20	1852:48	127	93		2		I ,ND
	7496	151	82/05/31	2202:43	2202:51	20	84		15		I
*	5138	153	82/06/02	0058:54	0059:07	164	79		2		
*	5139	153	82/06/02	0110:23	0111:22	167	78		10		AX
*	5140	153	82/06/02	0711:38	0711:49	116	130	1408	4		
*	5141	153	82/06/02	0833:45	0834:18	40	96		2		
*	5142	153	82/06/02	0901:07	0901:55	66	160	1949	5		
*	5143	153	82/06/02	1213:09	1213:41	81	72		2		
	7497	153	82/06/02	1257:25	1258:44	187	73		2		I ,ES
	10282	153	82/06/02	1509:47	1510:32	137	60	623	2		I
*	5144	153	82/06/02	1527:27	1605:27	3062	85		2	3763	IN
*	5145	153	82/06/02	1643:31	1643:48	59	150	1980	2		
*	5146	153	82/06/02	1650:01	1650:37	111	217	5222	2		
*	5147	153	82/06/02	1659:53	1659:57	11	91		2		
*	5148	153	82/06/02	2004:58	2006:24	137	63		2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	5149	153	82/06/02	2255:11	2255:57	119	410	7004	4		
*	5150	154	82/06/03	0217:14	0217:45	109	83		2		
*	5151	154	82/06/03	0320:08	0320:44	90	199	4084	2		
*	5152	154	82/06/03	0322:04	0327:38	806	3194	1.79E+05	5	3763	FS
*	5153	154	82/06/03	0336:25	0338:09	162	87		2		
*	5154	154	82/06/03	0348:29	0348:44	39	59		2		
	7498	154	82/06/03	0537:06	0537:22	28	80		2		I
*	5155	154	82/06/03	0820:25	0820:44	38	74		2		
*	5156	154	82/06/03	0830:10	0837:21	1353	1411	2.23E+05	5	3763	M1,FS
*	5157	154	82/06/03	1140:32	1143:31	1449	213791	4.50E+07	15	3763	EN
*	5158	154	82/06/03	1241:43	1243:45	159	77		2		ES,AX
*	5159	154	82/06/03	1633:55	1634:00	24	147	562	2		
*	5160	154	82/06/03	1735:51	1736:19	265	190	6367	2		DG
*	5161	154	82/06/03	2101:47	2101:55	24	64		2		
*	5162	154	82/06/03	2128:08	2128:38	120	1198	24122	7		
*	5163	155	82/06/04	0011:31	0031:26	1968	3590	1.20E+06	8	3763	I ,EN,FS
*	5164	155	82/06/04	0214:37	0215:31	125	69		2		AX
*	5165	155	82/06/04	0259:03	0259:07	293	443	31964	4	3763	SA
*	5166	155	82/06/04	0320:30	0320:37	14	69		2		
*	5167	155	82/06/04	0631:35	0631:42	201	493	19006	4	3763	
*	5168	155	82/06/04	0805:54	0806:02	30	291	1311	13		
*	5169	155	82/06/04	0833:48	0834:05	60	258	1759	3		
*	5170	155	82/06/04	0936:38	0936:56	687	97	7353	2	3763	SA,EW
*	5171	155	82/06/04	0952:14	0952:23	172	120	2677	2		EW
*	5172	155	82/06/04	1001:35	1013:27	751	109	8701	2		
*	5173	155	82/06/04	1311:50	1313:07	169	251	7409	4		EW
*	5174	155	82/06/04	1317:47	1323:55	381	213	8721	2	3763	EN,EW
*	5175	155	82/06/04	1428:29	1428:35	490	709	64448	2	3763	SA
*	5176	155	82/06/04	1447:00	1447:18	33	1209	4497	7		
*	5177	155	82/06/04	1534:47	1535:15	64	60		2		
*	5178	155	82/06/04	1549:45	1550:15	77	70		2		
*	5179	155	82/06/04	1731:15	1731:41	57	69		2		
*	5180	155	82/06/04	1740:05	1741:45	153	127	1787	4		
*	5181	155	82/06/04	1902:34	1903:22	65	64		2		
*	5182	155	82/06/04	1912:16	1917:51	898	1497	1.44E+05	13	3763	M1,FS
*	5183	155	82/06/04	2024:49	2029:39	780	135	15752	2		
*	5184	155	82/06/04	2217:04	2217:16	19	72		2		
*	5185	155	82/06/04	2241:46	2242:11	174	68		2		
*	5186	155	82/06/04	2246:06	2246:26	51	71		2		
*	5187	156	82/06/05	0014:44	0016:41	168	79		2		
*	5188	156	82/06/05	0027:39	0028:23	72	169	4047	2		
*	5189	156	82/06/05	0124:26	0128:54	1141	18017	1.04E+06	12	3763	M1,DG,FS
*	5190	156	82/06/05	0245:40	0249:11	732	470	55170	2	3763	
*	5191	156	82/06/05	0306:36	0315:13	1868	2843	8.32E+05	3	3763	M1,EN
*	5192	156	82/06/05	0613:31	0616:07	2120	20434	3.02E+06	12	3763	M1,EN
*	5193	156	82/06/05	0741:34	0741:50	172	97		2		
*	5194	156	82/06/05	0751:46	0752:36	90	70		2		
*	5195	156	82/06/05	0956:46	0957:43	160	131	3978	2		
	7499	156	82/06/05	1105:06	1108:36	320	115	4195	2		I
	7500	156	82/06/05	1113:29	1114:16	113	392	7759	3		I
*	5196	156	82/06/05	1239:36	1240:24	201	122	2959	2		
*	5197	156	82/06/05	1423:49	1428:54	612	209	10794	2		
*	5198	156	82/06/05	1441:37	1441:45	47	67		2	3763	
*	5199	156	82/06/05	1519:25	1529:18	1520	10152	1.39E+06	5	3763	M1
*	5200	156	82/06/05	1549:30	1549:47	44	460	3100	3		
*	5201	156	82/06/05	1552:14	1553:56	296	1121	29249	4		
*	5202	156	82/06/05	1707:41	1708:13	55	79		2		
*	5203	156	82/06/05	1720:39	1722:10	299	247	10585	2		
*	5204	156	82/06/05	1727:21	1729:25	298	108	8375	2		
*	5205	156	82/06/05	1737:57	1739:14	214	166	9545	2	3763	SG
*	5206	156	82/06/05	1751:04	1751:59	142	98		2		
	7501	156	82/06/05	1853:12	1853:30	112	74		2		I
*	5207	156	82/06/05	2004:28	2010:00	820	466	1.37E+05	2		SN,DG
*	5208	156	82/06/05	2044:16	2049:07	705	472	33358	2	3763	EG
	7502	156	82/06/05	2059:14	2059:22	19	52		2		I
	7503	156	82/06/05	2316:08	2316:22	16	72		2		I
	7504	156	82/06/05	2318:16	2318:57	308	386	12207	3		I
*	5209	157	82/06/06	0253:51	0255:04	175	68		2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	5210	157	82/06/06	0256:56	0257:38	156	66		2		
*	5211	157	82/06/06	0305:37	0307:40	382	368	30423	2	3763	
*	5212	157	82/06/06	0620:29	0620:52	90	84		2		
*	5213	157	82/06/06	0912:19	0912:28	30	70		2		
*	5214	157	82/06/06	1104:03	1104:56	173	142	3415	2		
*	5215	157	82/06/06	1249:29	1249:51	81	79		2		
*	5216	157	82/06/06	1328:59	1332:34	427	190	17148	2	3763	SN,ES
*	5217	157	82/06/06	1419:41	1422:39	501	2681	2.47E+05	4	3763	M1,EN
*	5218	157	82/06/06	1506:02	1506:44	62	82		2		
*	5219	157	82/06/06	1513:18	1513:31	49	65		2		
*	5220	157	82/06/06	1638:57	1639:22	3539	60593	1.40E+07	9	3763	M1,SN,EN
*	5221	157	82/06/06	1814:06	1814:44	39	495	11829	7		EG
	6636	157	82/06/06	1902:40	1903:09	104	114	1827	2		I
*	5222	157	82/06/06	2158:37	2159:08	109	267	3748	3		
*	5223	157	82/06/06	2205:07	2206:20	234	79	2199	2		
*	5224	157	82/06/06	2302:04	2302:11	67	79		2		
*	5225	157	82/06/06	2344:20	2345:26	213	84	1294	2		
*	5226	158	82/06/07	0851:04	0851:29	51	118	809	2		
*	5227	158	82/06/07	1030:22	1031:07	72	81		2		
*	5228	158	82/06/07	1314:00	1314:03	191	81		2		EW
*	5229	158	82/06/07	1337:30	1344:54	877	385	46573	2	3763	SN,EW
*	5230	158	82/06/07	1522:25	1522:36	37	59		2		
	7505	158	82/06/07	2117:37	2119:07	163	128	4601	2		I
*	5231	158	82/06/07	2327:58	2331:05	444	82	4237	3		
*	5232	159	82/06/08	0352:40	0353:01	58	64		2		
*	5233	159	82/06/08	0540:16	0540:33	32	87		2		
*	5234	159	82/06/08	0550:15	0550:57	198	193	6743	2		
*	5235	159	82/06/08	1213:54	1214:35	68	218	3241	4		
*	5236	159	82/06/08	2000:32	2002:16	259	1517	86927	10	3763	ND
*	5237	159	82/06/08	2008:37	2009:13	89	82		3		
*	5238	160	82/06/09	0321:55	0322:30	93	81		2		
	7506	160	82/06/09	0956:35	0956:51	21	91		2		I
*	5239	160	82/06/09	1029:37	1029:57	112	101	1257	2		
*	5240	160	82/06/09	1134:53	1136:34	253	528	26617	2		
*	5241	160	82/06/09	1200:51	1201:38	135	60		2		
*	5242	160	82/06/09	2220:52	2223:17	417	1032	72131	4		
*	5243	160	82/06/09	2232:34	2235:49	295	278	6284	3		
*	5244	160	82/06/09	2242:25	2249:20	1700	316	94761	2	3763	SG
*	5245	161	82/06/10	0027:12	0027:46	66	138	1514	2		
*	5246	161	82/06/10	0214:09	0214:55	186	479	12533	2		
*	5247	161	82/06/10	0332:04	0333:54	110	60		2		
*	5248	161	82/06/10	0504:53	0505:19	79	82		2		
*	5249	161	82/06/10	1848:38	1851:56	243	147	4027	3		
*	5250	161	82/06/10	1931:06	1940:25	919	120	9784	2		ND
*	5251	161	82/06/10	2249:08	2250:10	152	65		2		
*	5252	162	82/06/11	0431:50	0432:06	57	83		2		
*	5253	162	82/06/11	0639:11	0645:39	713	708	1.45E+05	3		
*	5254	162	82/06/11	0940:37	0941:32	123	69		2		
*	5255	162	82/06/11	0952:50	0953:18	40	88		2		
*	5256	162	82/06/11	1108:55	1109:23	140	830	22377	4		
*	5257	162	82/06/11	1130:02	1131:05	112	113	2855	2		
	7507	162	82/06/11	1435:56	1436:37	152	107	2953	2		I
	7508	162	82/06/11	1442:20	1443:45	161	66		2		I
	7509	162	82/06/11	1718:34	1718:39	29	91		2		I
*	5258	162	82/06/11	1723:22	1724:16	135	86		2		
*	5259	162	82/06/11	1836:23	1842:44	753	97	7973	2		
*	5260	162	82/06/11	1854:38	1855:45	154	96		2		
*	5261	162	82/06/11	2009:17	2009:30	40	66		2		
*	5262	162	82/06/11	2021:11	2021:28	32	72		2		
*	5263	162	82/06/11	2054:04	2054:09	40	62		2		
*	5264	162	82/06/11	2155:33	2156:25	101	72		2		
*	5265	162	82/06/11	2203:41	2205:08	197	160	2141	2		
*	5266	162	82/06/11	2225:50	2226:13	79	74		2		
*	5267	162	82/06/11	2239:23	2240:06	63	60		2		
	7510	162	82/06/11	2328:33	2329:11	389	2239	84384	7		I ,FS
*	5268	163	82/06/12	0143:52	0144:33	81	122	2121	2		
*	5269	163	82/06/12	0149:55	0150:31	58	324	6087	3		
*	5270	163	82/06/12	0228:11	0228:46	523	367	20536	4		SN

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	5271	163	82/06/12	0245:22	0247:59	257	1456	52130	8	3776	
*	5272	163	82/06/12	0436:23	0436:53	51	88		2		
*	5273	163	82/06/12	0439:51	0440:05	148	84		2		
*	5274	163	82/06/12	0545:45	0545:57	1753	489	2.09E+05	2		
*	5275	163	82/06/12	0738:45	0739:09	54	73		2		
*	5276	163	82/06/12	1037:15	1038:36	368	93	7604	2		SN
*	5277	163	82/06/12	1053:22	1054:02	54	71		2		
*	5278	163	82/06/12	1101:01	1101:16	76	69		2		
*	5279	163	82/06/12	1110:24	1112:39	612	2174	1.94E+05	7	3776	
	7511	163	82/06/12	1253:22	1253:32	25	76		2		I
	7512	163	82/06/12	1332:22	1333:31	159	108	3707	2		I ,SN
	7513	163	82/06/12	1510:20	1512:54	407	583	69851	4		I
	7514	163	82/06/12	1535:51	1537:22	483	440	32860	4		I
	7515	163	82/06/12	1602:31	1602:53	48	59		2		I
	7516	163	82/06/12	1641:57	1643:24	248	133	8415	2		I
*	5280	163	82/06/12	1736:14	1737:39	279	647	30013	5		
*	5281	163	82/06/12	1817:58	1819:34	1583	392	75384	2		
*	5282	163	82/06/12	1846:34	1855:57	1372	906	1.78E+05	5		
*	5283	163	82/06/12	2000:56	2001:49	70	109	668	2		
*	5284	163	82/06/12	2015:49	2016:00	27	457	4049	5	3763	FS
*	5285	163	82/06/12	2026:56	2029:43	335	76	3192	2		
*	5286	163	82/06/12	2042:45	2042:52	40	79		2		
*	5287	163	82/06/12	2046:46	2047:21	75	75		2		
*	5288	163	82/06/12	2148:10	2148:42	56	112	768	2		
*	5289	163	82/06/12	2158:35	2159:59	100	99		2		
*	5290	163	82/06/12	2318:48	2319:19	81	129	1977	2		
*	5291	163	82/06/12	2322:51	2324:41	167	121	2036	2		
	7517	164	82/06/13	0050:46	0051:04	52	80		2		I
*	5292	164	82/06/13	0254:18	0254:23	17	187	340	2		
*	5293	164	82/06/13	0256:54	0257:04	88	72		2		
*	5294	164	82/06/13	0259:32	0259:51	133	78		2		
*	5295	164	82/06/13	0529:06	0530:43	360	125	5717	2		SN
*	5296	164	82/06/13	0733:43	0734:15	57	86		2		
*	5297	164	82/06/13	0735:32	0736:37	88	119	1429	2		ND
*	5298	164	82/06/13	0927:19	0929:22	182	93		2	3776	
	7518	164	82/06/13	1020:16	1021:33	2722	893	5.00E+05	2		I ,SA
*	5299	164	82/06/13	1210:51	1211:25	114	71		2		
*	5300	164	82/06/13	1400:48	1401:09	71	71		2		
*	5301	164	82/06/13	1405:46	1406:39	108	206	2674	5		
*	5302	164	82/06/13	1545:07	1545:54	91	73		2		
*	5303	164	82/06/13	1652:35	1653:23	84	65		2		
*	5304	164	82/06/13	1700:43	1701:10	59	405	7612	4		
*	5305	164	82/06/13	1815:30	1818:13	1105	2300	2.64E+05	10	3776	FS
*	5306	164	82/06/13	1941:59	1942:53	92	357	7257	4	3763	FS
*	5307	164	82/06/13	1945:43	1946:00	45	60		2		
*	5308	164	82/06/13	1948:16	1950:44	192	78		2		
*	5309	164	82/06/13	2003:41	2004:02	146	229	6127	2		
*	5310	164	82/06/13	2119:44	2119:59	37	100	1278	2		
*	5311	164	82/06/13	2129:45	2146:44	2146	2619	4.91E+05	7	3763	ES,FS
*	5312	164	82/06/13	2310:19	2335:59	1960	1359	2.03E+05	7	3776	ES
*	5313	165	82/06/14	0026:57	0030:08	269	224	7726	4	3763	
*	5314	165	82/06/14	0101:53	0104:50	286	127	5026	2		
*	5315	165	82/06/14	0115:06	0116:02	133	90		2		
*	5316	165	82/06/14	0154:24	0154:24	106	95		3	3763	SN
*	5317	165	82/06/14	0207:11	0207:29	102	127	1717	3		
*	5318	165	82/06/14	0338:41	0338:45	88	261	2801	4	3776	FS
*	5319	165	82/06/14	0347:38	0348:28	60	85		2		
*	5320	165	82/06/14	0422:52	0423:40	164	1223	26319	5		DG,ND
*	5321	165	82/06/14	0511:44	0511:57	571	103	8243	2	3763	SA,AX
*	5322	165	82/06/14	0559:38	0559:57	43	127	450	2		
*	5323	165	82/06/14	0711:10	0711:22	40	92		2		
*	5324	165	82/06/14	0731:11	0731:36	163	69		2		
*	5325	165	82/06/14	0737:57	0738:21	52	85		2		
*	5326	165	82/06/14	0847:52	0848:11	26	98		2		
*	5327	165	82/06/14	0914:36	0914:54	28	590	3998	5		FS
*	5328	165	82/06/14	1020:26	1020:34	80	86		2		
*	5329	165	82/06/14	1023:09	1023:23	67	76		2		
*	5330	165	82/06/14	1152:35	1153:28	127	77		2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	5331	165	82/06/14	1306:48	1309:10	892	857	1.17E+05	7	3776	
*	5332	165	82/06/14	1355:50	1356:00	42	68		2		
*	5333	165	82/06/14	1439:26	1441:45	508	410	37797	4		
*	5334	165	82/06/14	1456:30	1456:38	25	196	835	4		
*	5335	165	82/06/14	1459:01	1500:05	181	77		2		
*	5336	165	82/06/14	1523:59	1524:17	41	73		2		
*	5337	165	82/06/14	1532:26	1532:39	24	232	112	3		
*	5338	165	82/06/14	1628:08	1628:42	61	279	3473	3		FS
*	5339	165	82/06/14	1705:56	1706:06	42	332	2241	5		
*	5340	165	82/06/14	1814:42	1817:11	435	582	62144	3		
*	5341	165	82/06/14	1826:45	1828:28	171	126	4242	2		
*	5342	165	82/06/14	1950:11	1951:18	200	98		5		AX
*	5343	165	82/06/14	2106:27	2113:11	733	111	17741	2	3763	
	7519	165	82/06/14	2313:21	2313:39	52	100	1183	2		I
*	5344	166	82/06/15	0030:10	0030:40	1014	25304	8.50E+05	15	3763	M5,FS
*	5345	166	82/06/15	0147:01	0154:30	595	149	10310	2		
*	5346	166	82/06/15	0217:46	0220:00	1319	3478	1.07E+06	4	3776	M5,EN
*	5347	166	82/06/15	0325:00	0326:53	751	130	1.67E+05	2		
*	5348	166	82/06/15	0356:11	0356:23	33	96		2		
*	5349	166	82/06/15	0711:38	0712:10	89	87		2		
*	5350	166	82/06/15	0810:16	0813:28	1219	726	2.13E+05	5	3780	SA
*	5351	166	82/06/15	0844:23	0844:44	53	81		2		
*	5352	166	82/06/15	0850:35	0850:50	107	81		2		
	6575	166	82/06/15	0857:51	0859:12	101	56		2		I ,SG
	6576	166	82/06/15	1013:19	1014:51	123	64		2		I
	6577	166	82/06/15	1017:42	1020:24	4383	33320	7.63E+06	11	3776	M5,I ,IN,DG,FS
	6578	166	82/06/15	1334:52	1335:32	234	84	2683	2		I
	6583	166	82/06/15	1420:48	1422:45	379	162	11380	2		I ,SN
*	5353	166	82/06/15	1444:38	1444:58	30	70		2		
*	5354	166	82/06/15	1446:27	1447:37	140	97		2		
*	5355	166	82/06/15	1451:11	1451:48	92	67		2		
*	5356	166	82/06/15	1508:18	1512:39	621	20609	1.81E+06	15	3780	
*	5357	166	82/06/15	1755:58	1757:00	168	64		3		AX
*	5358	166	82/06/15	1934:32	1935:37	144	71		4		AX
*	5359	166	82/06/15	2057:20	2101:50	765	782	1.32E+05	3	3776	
*	5360	166	82/06/15	2241:14	2241:36	57	85		2		
*	5361	167	82/06/16	0035:06	0035:17	33	181	664	3		
*	5362	167	82/06/16	0043:21	0043:28	94	70		2		
*	5363	167	82/06/16	0158:11	0158:20	23	220	1291	2		
*	5364	167	82/06/16	0207:29	0212:27	1016	9983	3.19E+06	7	3776	EN,FS
*	5365	167	82/06/16	0300:47	0301:00	159	96		2		SN,DG
*	5366	167	82/06/16	0346:45	0346:52	21	72		2		
*	5367	167	82/06/16	0501:32	0504:07	217	139	6899	2		
*	5368	167	82/06/16	0620:14	0620:20	72	116	1012	2		
*	5369	167	82/06/16	0944:44	0944:56	24	61		2		
*	5370	167	82/06/16	1637:28	1639:06	102	90		2		EN
*	5371	167	82/06/16	2028:00	2032:20	1309	878	1.21E+05	8	3780	
*	5372	167	82/06/16	2102:48	2103:45	174	75		2		
*	5373	167	82/06/16	2335:33	2335:48	221	297	20859	2	3776	SN
*	5374	168	82/06/17	0245:27	0245:43	461	2228	1.52E+05	5	3776	SN
	7520	168	82/06/17	0619:41	0620:23	114	182	6473	2		I
*	5375	168	82/06/17	1048:19	1051:20	621	13904	1.02E+06	10	3776	M5,FS
*	5376	168	82/06/17	1101:49	1102:02	39	160	1773	2		
*	5377	168	82/06/17	1105:45	1106:19	70	204	3827	2		
*	5378	168	82/06/17	1114:00	1114:45	138	62		2		
*	5379	168	82/06/17	1307:18	1307:50	80	1170	13793	4	3776	M5,FS
*	5380	168	82/06/17	1312:40	1313:24	71	62		2		
*	5381	168	82/06/17	1408:47	1409:09	38	66		2		
*	5382	168	82/06/17	1411:24	1411:53	70	77		2		
*	5383	168	82/06/17	1545:29	1546:58	108	64		2		
*	5384	168	82/06/17	1609:49	1610:18	69	98		2		
*	5385	168	82/06/17	1616:17	1616:31	35	73		2		
*	5386	168	82/06/17	1621:20	1622:33	151	141	5178	2		
*	5387	168	82/06/17	1719:10	1719:25	48	76		2		
*	5388	168	82/06/17	1749:53	1749:59	17	76		2		
*	5389	168	82/06/17	1835:13	1835:30	124	579	14230	5		
*	5390	168	82/06/17	1849:48	1851:56	200	110	4095	2		
*	5391	168	82/06/17	1900:40	1901:43	145	82		2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	5392	168	82/06/17	2027:01	2027:22	46	277	1928	2		M5
	7350	169	82/06/18	0236:08	0236:36	77	169	1593	2		I
*	5394	169	82/06/18	0940:38	0940:45	38	124	1032	2		
*	5395	169	82/06/18	0945:36	0947:08	177	378	26694	4		
*	5396	169	82/06/18	1042:00	1042:09	30	79		2		
*	5397	169	82/06/18	1101:54	1103:52	548	1520	36526	5	3776	M5
*	5398	169	82/06/18	1214:17	1214:40	64	89		2		
	6572	169	82/06/18	1511:46	1514:04	458	2609	1.45E+05	7	3776	M5,I ,FS
*	5399	169	82/06/18	1659:04	1659:40	171	122	2846	2		
	7522	169	82/06/18	1902:24	1903:03	68	80		2		I
*	5400	169	82/06/18	2136:42	2140:29	735	324	15420	5	3776	DG
*	5401	170	82/06/19	0046:36	0048:57	277	596	25363	4	3776	M5,FS,EW
*	5402	170	82/06/19	0107:25	0107:38	24	66		2		EW
	7523	170	82/06/19	0749:36	0750:55	270	414	12374	3		I
*	5403	170	82/06/19	1102:59	1103:33	60	423	4593	4		EW
*	5432	170	82/06/19	1324:41	1325:30	120	68		2		EW
*	5433	170	82/06/19	1332:05	1333:07	136	100	3426	4		EW
*	5404	170	82/06/19	1510:36	1511:58	153	94		4		
*	5405	170	82/06/19	1517:01	1518:31	134	67		2		
*	5406	170	82/06/19	1526:02	1526:16	37	82		2		
*	5407	170	82/06/19	1641:45	1642:43	165	70		2		
*	5408	170	82/06/19	1716:47	1717:30	132	965	16631	4	3776	ES,FS
*	5409	170	82/06/19	1816:13	1816:57	91	191	2503	3		
*	5410	170	82/06/19	1948:08	1949:58	818	1037	1.44E+05	5	3776	M5
*	5411	171	82/06/20	0024:17	0024:54	195	129	3532	2	3781	
*	5412	171	82/06/20	0046:50	0047:28	58	71		2		
*	5413	171	82/06/20	0105:15	0105:33	39	69		2		
*	5414	171	82/06/20	0112:55	0113:32	411	13670	1.48E+05	10	3776	M5,FS
*	5415	171	82/06/20	0159:22	0201:10	1533	979	1.77E+05	3	3776	SN,DG
*	5416	171	82/06/20	0252:10	0253:00	137	114	2990	2	3776	
*	5417	171	82/06/20	0359:33	0403:06	330	5750	1.04E+05	8	3776	M5,FS
*	5418	171	82/06/20	0533:25	0533:56	116	73		2		
	7524	171	82/06/20	0652:36	0653:32	146	61		2		I
	7525	171	82/06/20	0659:32	0700:18	181	66		2		I
*	5419	171	82/06/20	1159:40	1200:15	588	6122	1.27E+05	8	3781	FS
*	5420	171	82/06/20	1314:49	1315:42	110	70		4		
*	5421	171	82/06/20	1453:19	1454:16	156	100	4192	4		
*	5422	171	82/06/20	1458:46	1459:15	80	70		2		
*	5423	171	82/06/20	1529:29	1532:32	412	98	4546	4		AX
*	5424	171	82/06/20	1632:30	1632:37	154	67		2		
*	5425	171	82/06/20	1936:44	1937:00	38	79		2		
*	5426	171	82/06/20	2233:52	2234:12	775	216	24245	2	3781	
*	5427	172	82/06/21	0234:25	0234:44	55	64		2		
*	5428	172	82/06/21	0238:26	0239:53	112	60		2		
*	5429	172	82/06/21	0324:26	0325:31	173	88		2		
*	5430	172	82/06/21	0348:22	0351:13	279	163	7716	2		
*	5431	172	82/06/21	0355:26	0355:43	159	73		2	3781	
	7526	172	82/06/21	0453:37	0454:28	730	133	12899	2		I
	7527	172	82/06/21	0634:09	0641:54	1933	151	37883	2		I
	7528	172	82/06/21	0850:30	0851:09	121	70		2		I
*	5434	172	82/06/21	1115:59	1116:19	670	114	15184	2		SG,EG
	7529	172	82/06/21	1323:38	1324:06	68	95		2		I
	7530	172	82/06/21	1512:10	1519:52	509	92	5523	4		I
*	5435	172	82/06/21	1610:14	1614:53	457	794	1.12E+05	5	3781	SG
*	5436	172	82/06/21	1752:20	1754:53	187	84		2		
*	5437	172	82/06/21	1800:21	1800:40	60	81		2		DG
*	5438	172	82/06/21	1808:21	1808:32	57	98		2		
	7531	172	82/06/21	2127:33	2127:46	52	69		2		I
	7532	172	82/06/21	2225:35	2227:22	262	194	16635	2		I ,EG
	7533	172	82/06/21	2246:02	2303:17	1286	20700	2.54E+06	8		M5,I ,ES
	7534	172	82/06/21	2355:38	2356:02	46	91		2		I
	7535	173	82/06/22	0003:10	0005:07	302	96	3567	2		I
	7536	173	82/06/22	0009:33	0009:38	33	91		2		I
	7537	173	82/06/22	0529:50	0533:45	411	339	52158	2		I ,EN
	7538	173	82/06/22	0624:36	0625:22	182	74		2		I
	7539	173	82/06/22	0642:23	0642:41	33	97		2		I
	7540	173	82/06/22	1017:39	1018:42	110	100	2076	2		I
*	5439	173	82/06/22	1421:28	1433:29	1521	360	1.12E+05	2	3781	EG

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	5440	173	82/06/22	1723:22	1724:12	83	88		2		
*	5441	174	82/06/23	0005:13	0005:33	380	1708	70548	4	3781	M5,FS
	5442	174	82/06/23	0328:36	0329:30	124	87		2	3781	
*	5443	174	82/06/23	0338:18	0338:55	286	182	5611	2		
	5444	174	82/06/23	0443:26	0443:30	39	75		2		
*	5445	174	82/06/23	0634:42	0652:42	1284	414	6.10E+05	2		ND
	7552	174	82/06/23	0912:29	0912:39	17	72		2		I
*	5446	174	82/06/23	1003:24	1003:42	53	286	2955	4		
	5447	174	82/06/23	1046:00	1046:11	27	210	1484	4		
	5448	174	82/06/23	1116:24	1116:51	71	67		2		
	5449	174	82/06/23	1402:33	1404:13	478	100	9331	10		AX
	5450	174	82/06/23	1433:53	1434:03	35	99		2		
	5451	174	82/06/23	1545:39	1546:23	154	78		2		
	5452	174	82/06/23	1549:37	1549:44	14	72		2		
	5453	174	82/06/23	1716:04	1716:18	45	113	960	2		
	7556	174	82/06/23	1839:39	1841:32	493	131	18224	2		I
	5454	174	82/06/23	1856:40	1857:25	89	367	7580	5		
	5455	174	82/06/23	1902:43	1905:52	632	268	41232	2	3781	
	5456	174	82/06/23	2052:25	2052:45	92	75		2		
	5457	174	82/06/23	2329:03	2331:10	557	1041	98505	8	3781	M5
	5458	175	82/06/24	0232:31	0232:51	111	99		2		
	5459	175	82/06/24	0303:26	0303:43	70	78		2		
	5460	175	82/06/24	0307:39	0308:15	102	105	1376	2		
	7557	175	82/06/24	0410:36	0411:51	404	454	25213	6		I
	7558	175	82/06/24	0444:06	0444:46	68	781	13129	5		I
	5461	175	82/06/24	0744:27	0745:54	102	69		2		
	5462	175	82/06/24	1352:36	1353:35	121	74		2		
	7559	175	82/06/24	1404:37	1404:51	72	63		2		I
	7560	175	82/06/24	1524:16	1526:56	565	88	8939	4		I
	5463	175	82/06/24	1839:26	1840:14	86	71		2		
	5464	175	82/06/24	2155:45	2156:13	40	72		2		
	5465	175	82/06/24	2304:28	2310:05	998	115	10271	2	3781	
	5466	176	82/06/25	0530:12	0531:14	163	109	3960	2		
	5467	176	82/06/25	0534:11	0535:10	119	187	2417	3		
	5468	176	82/06/25	1041:33	1042:16	80	60		2		
	5469	176	82/06/25	1045:41	1046:34	284	463	28711	5		
	5470	176	82/06/25	1655:26	1656:11	104	77		2		
	5471	176	82/06/25	1943:28	1944:57	162	1276	59937	5	3781	
	5472	176	82/06/25	2131:08	2134:18	1537	7791	1.27E+06	13	3781	M5,FS
	5473	177	82/06/26	0042:57	0046:22	1821	8678	2.48E+06	10	3781	M5,FS
	5474	177	82/06/26	0205:49	0208:12	190	385	23914	5		DG,ND
	7561	177	82/06/26	0911:54	0912:25	49	74		2		I
	5475	177	82/06/26	1453:06	1455:18	402	87	5682	4		AX
	5476	177	82/06/26	1925:00	1926:24	1062	263	66899	2	3781	SN
	5477	178	82/06/27	0711:27	0711:44	74	92		2		
	7562	178	82/06/27	1020:21	1021:30	521	224	27190	2		I ,DG
	7563	180	82/06/29	1142:52	1144:19	142	119	3965	5		I
	7564	184	82/07/03	1738:48	1739:18	91	70	1055	2		I
	7565	184	82/07/03	1740:28	1741:15	270	216	13539	2		I
	5478	186	82/07/05	0609:41	0610:33	65	55		13		AX
	5479	186	82/07/05	2223:49	2224:04	37	66		2		
	7566	188	82/07/07	0050:33	0050:54	110	69		11		I
	7567	188	82/07/07	0407:51	0408:21	118	283	8582	2		I
	7568	188	82/07/07	0414:43	0415:54	270	280	18542	2		I
	7569	188	82/07/07	2006:30	2008:49	551	208	16714	3		I
	7570	188	82/07/07	2307:51	2314:51	600	204	24533	3		I
	7571	189	82/07/08	0222:07	0224:50	494	370	25845	2		I
	7572	189	82/07/08	0301:21	0301:31	30	69		2		I
	7573	189	82/07/08	0306:53	0307:18	50	163	1929	3		I
	7574	189	82/07/08	0353:28	0354:24	195	99		2		I
	7575	189	82/07/08	0411:49	0416:15	724	331	60509	2		I
	7576	189	82/07/08	0514:37	0514:58	526	125	9784	2		I
	7577	189	82/07/08	0725:06	0725:49	175	213	5281	4		I
	7578	189	82/07/08	0728:35	0734:40	612	256	22193	4		I
	7579	189	82/07/08	0745:27	0745:36	15	55		2		I
	7580	189	82/07/08	0905:08	0905:53	61	59		2		I
	7581	189	82/07/08	0908:58	0909:22	56	57		2		I
	7582	189	82/07/08	0910:26	0911:07	59	64		2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7583	189	82/07/08	0913:04	0913:08	21	62		2		I
7584	189	82/07/08	0914:06	0914:19	30	78		2		I
7585	189	82/07/08	0916:07	0916:28	238	77	2960	2		I
7586	189	82/07/08	0929:39	0929:58	28	51		2		I
7587	189	82/07/08	1041:57	1042:25	54	104	781	2		I
7588	189	82/07/08	1140:59	1141:24	45	90		2		I
7589	189	82/07/08	1224:56	1225:03	18	61		2		I
7590	189	82/07/08	1409:04	1409:59	69	230	2238	3		I
7591	189	82/07/08	1537:21	1537:38	69	377	4505	5		I
7592	189	82/07/08	1542:39	1542:54	25	89		2		I
7593	189	82/07/08	1638:58	1639:02	6	66		2		I
7594	189	82/07/08	1800:52	1801:15	103	93		2		I
7595	189	82/07/08	1803:54	1804:33	69	79		2		I
7596	189	82/07/08	1858:28	1858:35	11	73		2		I
7597	189	82/07/08	2030:13	2031:21	410	246	20109	3		I ,SA
7598	189	82/07/08	2106:10	2108:44	217	107	3060	2		I
6758	189	82/07/08	2121:05	2121:28	49	116	945	3		I
6759	189	82/07/08	2124:24	2124:34	20	61	126	2		I
7601	189	82/07/08	2319:15	2320:46	333	205	11150	2		I
7602	189	82/07/08	2333:23	2333:43	51	185	2186	3		I
7603	189	82/07/08	2334:39	2335:01	71	62		2		I
7604	189	82/07/08	2342:21	2343:03	162	87		2		I
6760	190	82/07/09	0015:44	0018:16	1447	878	68384	4	3804	I
6761	190	82/07/09	0112:23	0113:04	50	54		2		I
6742	190	82/07/09	0327:55	0328:50	105	70		2		I
6743	190	82/07/09	0408:04	0408:39	146	79		2		I
6744	190	82/07/09	0425:57	0427:35	274	123	4549	2		I
6745	190	82/07/09	0519:40	0519:50	27	162	652	4		I
6746	190	82/07/09	0546:27	0547:24	100	57		2		I
6747	190	82/07/09	0550:12	0550:23	32	120	828	2		I
6748	190	82/07/09	0555:56	0556:54	530	893	32474	6		I
6749	190	82/07/09	0713:06	0714:47	442	276	34936	5		I ,FS
6750	190	82/07/09	0724:58	0737:20	6677	155330	3.93E+07	15	3804	M5,I ,EN,IN,FS
7605	190	82/07/09	0945:24	0946:51	196	71		2		I
7606	190	82/07/09	1023:04	1023:59	740	92	27571	2		I ,SA,DG
7607	190	82/07/09	1045:32	1046:45	325	3277	77153	8		M5,I
7608	190	82/07/09	1122:44	1125:41	415	145	13901	2		I ,ES
5482	190	82/07/09	1347:57	1348:13	40	102	709	2		
5483	190	82/07/09	1528:36	1530:16	309	262	13625	2		FS
5484	190	82/07/09	1617:53	1619:24	380	574	36988	3	3804	
5485	190	82/07/09	1703:34	1703:58	63	85		2		
5486	190	82/07/09	1838:42	1839:46	391	139	7678	2	3804	
5487	190	82/07/09	2013:22	2017:40	616	451	20394	4		SG
5488	190	82/07/09	2052:17	2052:44	186	161	3279	2		
5489	190	82/07/09	2056:34	2057:08	117	96		2		
5490	190	82/07/09	2105:38	2107:01	529	57078	1.19E+06	15	3804	M5
5491	190	82/07/09	2116:39	2117:44	103	74		2		
5492	190	82/07/09	2120:12	2120:43	106	60		2		
5493	190	82/07/09	2128:25	2130:39	183	96		2		
5494	190	82/07/09	2148:26	2148:53	77	188	2949	2		
5495	190	82/07/09	2239:10	2251:21	1064	1283	1.64E+05	9	3804	M5
5496	190	82/07/09	2303:01	2304:09	285	1200	58186	4		
5497	190	82/07/09	2324:00	2324:17	45	56		2		
5498	190	82/07/09	2326:27	2326:44	46	106	638	2		
5499	191	82/07/10	0016:40	0018:13	160	90		2		
5500	191	82/07/10	0022:42	0029:05	666	163	9621	2		
5501	191	82/07/10	0035:56	0036:55	180	524	11540	3		
5502	191	82/07/10	0135:22	0138:09	959	1145	2.11E+05	8	3804	M5
5503	191	82/07/10	0158:04	0200:21	596	5979	4.00E+05	8	3804	
5504	191	82/07/10	0315:50	0317:03	340	6260	81619	11	3804	M5
5505	191	82/07/10	0407:46	0408:26	315	1369	31064	8	3804	
5506	191	82/07/10	0446:52	0447:03	21	73		2		
5507	191	82/07/10	0517:04	0518:25	121	73		2		
5508	191	82/07/10	0534:59	0535:34	124	62		2		
5509	191	82/07/10	0547:52	0548:01	104	95		2		ND
7609	191	82/07/10	0622:58	0623:31	51	58		2		I
7610	191	82/07/10	0624:00	0624:13	24	145	521	2		I
7611	191	82/07/10	0625:03	0625:26	46	61		2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7612	191	82/07/10	0628:42	0643:08	934	84	10117	6		I
7613	191	82/07/10	0705:40	0719:19	1241	637	74961	4		I
6786	191	82/07/10	0825:26	0832:59	1545	8609	84967	15		I ,FS
6787	191	82/07/10	0852:01	0852:59	118	89		2		I
6788	191	82/07/10	0859:15	0859:40	72	127	2377	3		I
5510	191	82/07/10	1006:16	1015:48	703	3360	1.35E+05	4		M5,SA
5511	191	82/07/10	1020:43	1022:07	99	113	1254	2		
5512	191	82/07/10	1108:04	1108:11	28	100	345	2		
5513	191	82/07/10	1111:37	1111:45	14	76		2		
5514	191	82/07/10	1146:57	1147:39	67	123	1052	2		
5515	191	82/07/10	1150:29	1150:50	66	61		2		
5516	191	82/07/10	1153:23	1156:33	190	70		2		
5517	191	82/07/10	1158:38	1200:05	263	603	17255	4		
5518	191	82/07/10	1241:04	1241:41	74	71		2		
5519	191	82/07/10	1340:53	1341:12	31	172	422	2		EW
5520	191	82/07/10	1504:04	1504:36	85	107	584	2		
5521	191	82/07/10	1509:24	1509:49	111	303	7594	2		
5522	191	82/07/10	1603:53	1604:11	155	134	3595	3		
5523	191	82/07/10	1611:24	1612:05	137	151	2766	2	3804	
5524	191	82/07/10	1641:32	1643:18	896	789	70307	5		EN,SA
5525	191	82/07/10	1823:45	1824:08	34	97		2		
5526	191	82/07/10	1901:19	1902:06	200	77		2		
5527	191	82/07/10	1905:56	1906:17	35	66		2		
5528	191	82/07/10	2001:47	2002:32	249	354	15139	2	3800	
6584	191	82/07/10	2049:13	2049:42	179	557	25662	3		I
6585	191	82/07/10	2106:32	2107:39	141	337	10206	5		I
6586	191	82/07/10	2118:07	2118:23	63	69		2		I
6587	191	82/07/10	2135:27	2141:14	373	813	53287	7	3804	I ,EN
5529	191	82/07/10	2212:10	2215:25	560	115	11056	2		
5530	191	82/07/10	2237:26	2239:25	266	129	2578	2		
5531	191	82/07/10	2244:38	2248:38	316	133	3135	2		
5532	191	82/07/10	2252:07	2252:26	103	67		2		
5533	191	82/07/10	2258:52	2259:57	120	66		2		
5534	191	82/07/10	2313:06	2313:40	93	69		2		
5535	192	82/07/11	0008:15	0008:32	37	69		2		
5536	192	82/07/11	0012:53	0013:25	44	69		2		
5537	192	82/07/11	0125:28	0131:36	442	128	4604	5		
5538	192	82/07/11	0205:40	0207:42	1053	550	33917	7	3804	
5539	192	82/07/11	0327:58	0328:17	52	270	4583	3		
5540	192	82/07/11	0337:38	0338:09	146	824	12112	4		
5541	192	82/07/11	0341:01	0341:17	33	97		2		
5542	192	82/07/11	0443:31	0445:21	255	573	25097	3		
5543	192	82/07/11	0527:42	0530:23	523	109	11249	2		
5544	192	82/07/11	0614:58	0621:09	533	233	14951	5		
5545	192	82/07/11	0636:35	0637:12	388	974	29810	10		
5546	192	82/07/11	0700:21	0700:47	211	302	5101	5		
5547	192	82/07/11	0708:06	0708:52	108	58		2		
5548	192	82/07/11	0810:48	0812:59	436	698	66284	7	3804	
5549	192	82/07/11	0823:51	0824:26	95	70		2		
5550	192	82/07/11	0826:56	0827:39	94	88		2		
5551	192	82/07/11	0953:39	0955:03	196	183	7033	2	3804	
7614	192	82/07/11	1128:48	1129:56	466	290	19092	3		I ,SN
5552	192	82/07/11	1326:21	1326:34	18	63		2		
5553	192	82/07/11	1401:29	1402:01	397	5290	1.99E+05	7	3804	M5,SN
5554	192	82/07/11	1413:08	1413:36	47	90		2		
5555	192	82/07/11	1447:42	1448:01	41	69		2		
5556	192	82/07/11	1448:55	1449:21	54	91		3		
5557	192	82/07/11	1452:37	1453:23	88	80		2		
5558	192	82/07/11	1454:29	1455:39	149	75		2		
5559	192	82/07/11	1630:20	1631:04	69	71		2		
5560	192	82/07/11	1641:04	1641:19	39	71		2		
5561	192	82/07/11	1711:49	1712:13	93	120	2748	2		
5562	192	82/07/11	1814:05	1814:58	152	108	3327	3		
5563	192	82/07/11	1848:46	1852:45	538	241	26895	2	3804	
5564	192	82/07/11	1908:50	1910:44	281	202	8130	3		
5566	192	82/07/11	2158:33	2208:25	665	130	10865	2		
5565	192	82/07/11	2158:40	2159:21	62	58		2		
5567	192	82/07/11	2211:07	2212:43	239	316	10887	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
5568	192	82/07/11	2230:24	2231:08	160	201	4329	3		
5569	192	82/07/11	2331:31	2332:23	1527	220	40511	2		SN
5570	193	82/07/12	0015:40	0016:29	100	57		2		
5571	193	82/07/12	0025:39	0026:35	94	71		2		
5572	193	82/07/12	0113:30	0114:18	90	59		2		
5573	193	82/07/12	0246:09	0246:28	55	62		2		
5574	193	82/07/12	0253:14	0253:57	104	70		2		
5575	193	82/07/12	0310:05	0310:34	762	1686	1.50E+05	5	3804	M5
5576	193	82/07/12	0607:06	0621:38	3000	439	1.83E+05	2		SA
5577	193	82/07/12	0755:27	0755:45	52	59		2		
5578	193	82/07/12	0757:35	0758:21	71	68		2		
5579	193	82/07/12	0813:37	0817:51	542	162	1709	3		
5580	193	82/07/12	0932:36	0945:57	7741	58007	4.10E+07	13	3804	M5,EN,SA
5581	193	82/07/12	1212:12	1212:37	70	66		2		
5582	193	82/07/12	1444:15	1444:45	112	157	1960	2		
5583	193	82/07/12	1530:56	1531:17	42	929	9804	7		M5
5584	193	82/07/12	2028:27	2029:34	182	74		2		
5585	193	82/07/12	2034:35	2035:33	162	90		2		
5586	193	82/07/12	2039:52	2041:36	1050	2195	1.82E+05	8	3804	M5
5587	193	82/07/12	2224:36	2225:21	114	59		2		
5588	193	82/07/12	2231:11	2231:22	19	106	293	2		
5589	193	82/07/12	2345:18	2345:49	113	121	2615	2		
5590	194	82/07/13	0103:57	0104:25	64	86		2		
5591	194	82/07/13	0227:09	0229:03	676	155	14716	2		
5592	194	82/07/13	0259:31	0300:05	121	113	1619	2		
5593	194	82/07/13	0638:00	0638:12	25	210	848	4	3806	
5594	194	82/07/13	0944:52	0948:09	387	130	11429	2	3804	EN
5595	194	82/07/13	1105:28	1105:29	42	61		2		
5596	194	82/07/13	1113:02	1115:30	203	136	48739	2	3806	DG,ND
7615	194	82/07/13	1242:19	1242:28	25	68		2		I
7616	194	82/07/13	1247:02	1247:14	45	70		2		I
7617	194	82/07/13	1249:15	1249:32	31	113	757	2		I
5597	194	82/07/13	1412:14	1412:14	985	171	21375	2		SA
5598	194	82/07/13	1515:50	1516:03	33	77		2		
5599	194	82/07/13	1642:53	1643:08	42	54		2		
5600	194	82/07/13	2144:29	2145:00	42	76		2		
5601	194	82/07/13	2145:50	2146:25	142	64		2		
7618	195	82/07/14	1041:45	1043:30	229	587	19875	3		I
5602	195	82/07/14	1230:09	1231:27	116	125	3469	2		
5603	195	82/07/14	1317:35	1318:28	143	73		2		
5604	195	82/07/14	1323:11	1324:22	175	72		2		EN
5605	195	82/07/14	1404:30	1405:25	170	89		2		
5606	195	82/07/14	1453:12	1459:54	833	479	1.57E+05	2		SN,ES
5607	195	82/07/14	1543:39	1544:11	63	127	1632	2		
5608	195	82/07/14	1551:30	1552:12	48	79		2		
5609	195	82/07/14	1714:58	1715:31	196	59		2		
5610	195	82/07/14	1721:53	1722:23	124	87		2		
5611	195	82/07/14	1727:34	1730:13	180	134	6383	2	3812	EN
5612	195	82/07/14	1847:32	1847:41	57	94		2		
5613	195	82/07/14	1955:22	1956:08	56	61		2		
5614	195	82/07/14	2007:43	2008:04	34	97		2		
5615	195	82/07/14	2008:37	2009:15	109	243	4199	3		
5616	195	82/07/14	2017:37	2018:30	120	69		5		AX
5617	195	82/07/14	2121:10	2121:23	74	69		5		
5618	195	82/07/14	2128:42	2129:14	48	68		2		
5619	195	82/07/14	2133:32	2133:41	20	231	594	4		
5620	196	82/07/15	0052:35	0053:24	71	77		2		
5621	196	82/07/15	0211:15	0211:20	108	139	1297	3		
5622	196	82/07/15	0218:09	0223:29	2658	623	3.18E+05	3		EN,AX
5623	196	82/07/15	0333:03	0338:27	1940	490	73485	4		AX
5624	196	82/07/15	0409:55	0416:18	600	92	10135	2	3804	
5625	196	82/07/15	0542:48	0544:02	86	76		2		
5626	196	82/07/15	0600:35	0600:53	27	58		2		
5627	196	82/07/15	0917:18	0919:12	173	82		2	3812	
5628	196	82/07/15	1228:43	1229:49	78	70		2	3812	
7619	196	82/07/15	1443:25	1450:15	412	112	11785	4		I ,ES
7620	196	82/07/15	1525:44	1527:16	163	471	18764	3		I
5629	196	82/07/15	1620:06	1620:53	59	87		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
5630	196	82/07/15	1754:09	1756:35	152	61		2		
5631	196	82/07/15	1840:26	1840:40	97	129	3504	2		
7621	196	82/07/15	1932:34	1933:36	95	55		2		I
5632	196	82/07/15	2139:52	2140:40	179	62		4		
5633	197	82/07/16	0022:38	0024:16	1072	554	1.24E+05	3		
5634	197	82/07/16	0320:46	0322:13	501	2178	51983	7		M5,SA,FS
5635	197	82/07/16	0401:54	0402:31	68	82		2		
5636	197	82/07/16	0853:34	0854:28	141	71		2		
5637	197	82/07/16	0856:22	0857:00	67	57		2		
5638	197	82/07/16	0858:31	0901:58	352	173	22005	2	3804	
7624	197	82/07/16	1248:01	1248:20	113	87		2		I
7625	197	82/07/16	1520:27	1522:02	222	548	18939	6		I
7626	197	82/07/16	1638:18	1638:31	27	54		2		I
7627	197	82/07/16	2114:54	2115:10	35	134	795	2		I
7628	197	82/07/16	2122:45	2124:20	195	60		4		I
5639	197	82/07/16	2220:06	2222:55	799	1968	3.67E+05	9		M5
5640	197	82/07/16	2352:47	2354:28	1292	717	1.96E+05	5	3804	
5641	198	82/07/17	0134:33	0135:04	65	73		2		
5642	198	82/07/17	0139:21	0141:03	145	63		2		
5643	198	82/07/17	0202:13	0205:51	1189	21000	1.84E+06	9	3804	
5644	198	82/07/17	0706:35	0710:37	517	163	9477	5		
5645	198	82/07/17	1004:19	1006:11	259	308	8444	3		
5646	198	82/07/17	1306:23	1306:36	155	95		2	3804	
5647	198	82/07/17	1316:58	1317:35	130	79		2		
5648	198	82/07/17	2030:01	2031:03	374	358	32355	9		
5649	198	82/07/17	2055:29	2056:04	35	67		2		
5650	198	82/07/17	2105:52	2107:28	187	66		4		
5651	198	82/07/17	2124:19	2124:51	112	120	1926	2		
5652	198	82/07/17	2204:06	2207:03	750	666	1.45E+05	7		
5653	199	82/07/18	0318:44	0319:15	56	59		2		
5654	199	82/07/18	0321:00	0321:46	118	91		2		
5655	199	82/07/18	0630:54	0632:21	118	98		2		
5656	199	82/07/18	0633:01	0633:35	210	81		2		
5657	199	82/07/18	0751:06	0751:14	147	77		2		SA
5658	199	82/07/18	0959:19	0959:55	77	170	763	2		
5659	199	82/07/18	1006:44	1007:20	48	67		2		
5660	199	82/07/18	1139:24	1142:07	193	126	7115	2		
5661	199	82/07/18	1300:09	1301:21	104	295	2705	3		FS
7629	199	82/07/18	1352:14	1352:22	44	142	1066	2		I
7630	199	82/07/18	2058:00	2058:29	75	62		2		I ,SG
5662	199	82/07/18	2224:15	2224:38	34	303	1178	5		FS
5663	199	82/07/18	2225:10	2225:43	76	64		2		
5664	199	82/07/18	2226:59	2227:29	198	82		5		AX
5665	199	82/07/18	2330:30	2333:26	225	78	2315	5		AX
5666	200	82/07/19	0018:37	0019:21	141	383	11266	3		FS
5667	200	82/07/19	0057:02	0100:52	1025	8174	1.05E+06	14	3804	M5,SN
7631	200	82/07/19	0239:18	0241:05	112	61		2		I
7632	200	82/07/19	0416:02	0422:12	2007	4487	7.10E+05	6		I ,SA
7633	200	82/07/19	0917:18	0918:33	229	118	3397	2		I
5669	200	82/07/19	1101:31	1101:51	37	80		2		
5670	200	82/07/19	1248:03	1248:34	94	246	2850	3		
5671	200	82/07/19	1250:32	1251:47	283	718	51430	3	3810	
5672	200	82/07/19	1424:34	1424:57	75	243	2088	4		
5673	200	82/07/19	1544:15	1544:33	51	90		2		
5674	200	82/07/19	1552:06	1552:38	70	65		2		
5675	200	82/07/19	1608:57	1610:48	141	340	15209	3		EN
5676	200	82/07/19	1841:26	1844:58	692	230	43252	2	3804	
5677	200	82/07/19	2010:19	2011:04	84	77		2		
5678	200	82/07/19	2013:52	2014:43	452	567	44870	5		
5679	200	82/07/19	2206:20	2212:07	1464	115	2.91E+05	8		EN,AX
7634	200	82/07/19	2340:04	2341:49	156	55		2		I
7635	201	82/07/20	0053:00	0053:55	193	74		2		I
7636	201	82/07/20	0116:41	0117:54	138	63		2		I
5680	201	82/07/20	0229:26	0230:14	118	71		2		
5681	201	82/07/20	0233:46	0234:54	204	265	10799	2		
5682	201	82/07/20	0239:20	0241:32	709	114	13981	2	3804	
5683	201	82/07/20	0411:27	0417:49	2243	7638	4.84E+05	15		M5,EW
5684	201	82/07/20	0751:01	0752:56	198	142	4519	2		EW

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
5685	201	82/07/20	0917:22	0918:50	152	77	6337	2		
5686	201	82/07/20	1457:21	1457:33	47	156	688	3		
5687	201	82/07/20	1633:22	1633:41	52	65		2		
5688	201	82/07/20	1824:41	1826:21	156	92		2		
5689	201	82/07/20	2148:43	2149:12	126	147	3578	2		
5690	201	82/07/20	2152:59	2154:14	619	1000	67191	8		
5691	201	82/07/20	2306:13	2310:12	511	912	84779	4		
5692	201	82/07/20	2321:53	2322:30	141	164	6116	5		
5693	201	82/07/20	2336:35	2338:01	339	102	6238	3		
5694	202	82/07/21	0108:44	0109:21	73	80		2		AX
5695	202	82/07/21	0114:18	0115:22	141	2134	33237	7		
7637	202	82/07/21	1218:17	1218:18	66	56		2		I
7638	202	82/07/21	1308:26	1308:41	64	127	908	3		I
5699	202	82/07/21	1641:14	1645:08	1636	666	1.63E+05	5		
5700	202	82/07/21	1812:52	1822:59	1206	3374	3.92E+05	14	3804	M5
5701	202	82/07/21	1840:24	1842:00	331	282	14827	2		
5702	203	82/07/22	0015:31	0015:45	37	58		2		AX
5703	203	82/07/22	0511:29	0512:50	227	3520	73152	14	3804	M5
5709	203	82/07/22	1639:55	1657:36	1098	569	1.39E+05	5		EN,ND
5710	203	82/07/22	1734:18	1735:10	261	109	7243	2		
5711	203	82/07/22	1955:09	1956:07	112	179	5485	3		AX
7639	204	82/07/23	1016:46	1017:27	91	138	2946	2		I
7640	204	82/07/23	1018:30	1019:43	74	63		2		I
7641	204	82/07/23	1504:13	1504:33	43	55		2		I
5713	206	82/07/25	0002:47	0003:00	32	66		2		
5714	206	82/07/25	2132:59	2133:23	63	67		4		AX
7642	207	82/07/26	1835:36	1836:28	84	82		6		I ,SG
7643	208	82/07/27	1316:10	1318:13	179	60		2		
5722	212	82/07/31	1710:18	1711:14	198	71		3		
7646	213	82/08/01	0246:38	0247:13	147	66		2		I
5723	213	82/08/01	0717:36	0718:21	87	63		2		
5724	213	82/08/01	0721:58	0722:40	95	68		2		
5725	213	82/08/01	1949:09	1949:59	194	54		2		EW
5726	214	82/08/02	1456:58	1457:51	136	62		4		EW
5727	214	82/08/02	1620:42	1621:28	80	64		2		EW
5728	214	82/08/02	1816:27	1817:23	164	67		2		EG
5729	214	82/08/02	1953:38	1954:35	183	74		5		
5732	215	82/08/03	1145:33	1146:56	109	64		2		
5733	215	82/08/03	1300:58	1301:28	109	278	6389	4		
7648	215	82/08/03	1315:57	1316:25	119	49		2		I
7649	215	82/08/03	1319:46	1320:35	200	67		2		I
5734	215	82/08/03	1440:37	1441:14	136	86		5		AX
5735	215	82/08/03	1620:20	1620:41	65	66		3		EG
5736	215	82/08/03	2119:15	2120:09	91	60		2		
5737	216	82/08/04	0000:24	0000:49	53	60		2		
5738	216	82/08/04	0017:08	0018:10	115	58		2		
5739	216	82/08/04	0457:24	0457:38	34	59		2		
5740	216	82/08/04	0622:04	0622:30	38	67		2		EW
5741	216	82/08/04	1007:30	1008:11	274	117	5437	2		
5742	216	82/08/04	1106:40	1107:13	62	76		2		
5743	216	82/08/04	1750:29	1751:13	78	115	678	2		
5744	216	82/08/04	1921:55	1922:18	48	70		2		
5745	216	82/08/04	2030:52	2031:03	31	73		2		
7650	216	82/08/04	2340:45	2341:19	151	239	6929	3		I
5746	217	82/08/05	0342:18	0343:17	306	270	22044	4	3839	M5,EN
5747	217	82/08/05	0807:00	0807:08	15	78		2		
5748	217	82/08/05	0912:43	0912:50	24	127	776	2		
5749	217	82/08/05	0939:34	0939:58	81	81		2		
5750	217	82/08/05	0943:08	0945:55	240	125	2709	4		
5751	217	82/08/05	1138:44	1139:11	130	711	26752	5		
7651	217	82/08/05	1257:21	1257:45	66	61		2		I
7652	217	82/08/05	1432:49	1433:52	95	66		2		I
7653	217	82/08/05	1541:34	1541:41	21	70		2		I
7654	217	82/08/05	1559:49	1600:15	90	359	3198	3		I
7655	218	82/08/06	0421:51	0422:10	33	72		2		I
7656	218	82/08/06	0550:16	0550:42	37	65		2		I
5752	218	82/08/06	0752:39	0753:08	64	67		2		EW
7657	218	82/08/06	1120:03	1120:29	126	699	11366	3		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7658	218	82/08/06	1124:00	1124:44	106	95		2		I
7659	218	82/08/06	1205:57	1206:16	119	108	1494	2		I ,EG
7660	218	82/08/06	1342:14	1342:28	319	129	4480	2		I
7661	218	82/08/06	2325:07	2328:38	583	240	32167	3		I
7662	219	82/08/07	0839:33	0839:39	19	98		4		I
5754	219	82/08/07	1109:05	1109:55	110	85		5		
5755	219	82/08/07	1149:28	1150:05	116	150	1621	2		
5756	219	82/08/07	1151:49	1152:47	60	83		2		
5757	219	82/08/07	1158:12	1207:11	932	153	25914	2	3839	
5758	219	82/08/07	1332:36	1332:56	102	78		2		
5759	219	82/08/07	1644:21	1652:40	826	102	15479	3		SG
5760	219	82/08/07	2140:59	2141:53	88	394	4762	5		EW
5761	219	82/08/07	2144:02	2145:12	162	93		2		EW
7663	220	82/08/08	0026:59	0028:32	215	103		2		I
5762	220	82/08/08	0053:49	0054:10	52	101	1343	2		EG
6789	220	82/08/08	0201:48	0204:40	846	8504	4.50E+05	15	3829	M5,I
6790	220	82/08/08	0246:21	0247:49	229	437	22054	4		I
5763	220	82/08/08	0519:01	0519:27	33	74		2		
5764	220	82/08/08	0538:23	0538:38	39	61		2		
5765	220	82/08/08	0700:33	0701:05	49	92		2		
5766	220	82/08/08	0918:59	0919:21	42	66		2	3837	
5767	220	82/08/08	1037:46	1038:06	198	127	4535	2		
7664	220	82/08/08	1349:29	1349:44	33	67		2		I
5770	220	82/08/08	1638:39	1639:15	86	72		2		EW
5771	220	82/08/08	1642:59	1643:24	73	68		2		EW
5772	220	82/08/08	1646:40	1646:58	150	109	1431	2		EW
5768	220	82/08/08	1756:04	1756:16	29	173	909	2		EW
5769	220	82/08/08	1759:31	1800:01	79	75		2		EW
7665	221	82/08/09	0152:29	0153:15	121	78		2		I
7666	221	82/08/09	0204:29	0205:06	222	1226	33207	4		I
7667	221	82/08/09	0646:50	0649:07	625	247	23920	2		I ,DG
7668	221	82/08/09	1250:43	1252:25	240	139	6387	3		I
5773	221	82/08/09	1613:05	1614:25	120	86		5		AX
5774	221	82/08/09	1616:34	1617:01	157	83		5		AX
7669	222	82/08/10	0009:55	0009:59	14	80		2		I
7670	222	82/08/10	0010:52	0011:09	27	62		2		I
5775	222	82/08/10	0516:27	0517:16	189	129	8702	2		
5776	222	82/08/10	0525:09	0529:12	519	283	29553	2	3837	
7671	222	82/08/10	1316:12	1320:49	522	311	17919	5		I
7672	223	82/08/11	0617:44	0618:08	119	54		2		I
5777	223	82/08/11	1138:09	1139:13	200	1516	57530	4	3839	M5
5778	224	82/08/12	1044:24	1045:44	139	148	4124	2		
7673	225	82/08/13	0235:58	0236:15	42	75		2		I
7674	225	82/08/13	0737:49	0738:22	197	160	4061	3		I
7675	225	82/08/13	0745:24	0745:59	128	66		2		I
5780	225	82/08/13	1342:36	1343:22	124	294	5826	7		
5781	225	82/08/13	1813:39	1817:52	502	186	14530	3		EW
5782	225	82/08/13	2255:37	2259:36	638	446	31668	5	3837	EW
5783	225	82/08/13	2318:53	2323:45	452	71	2533	2		EW
5784	226	82/08/14	0240:35	0242:26	597	610	39639	4	3837	
5785	226	82/08/14	0400:11	0400:57	298	77	1930	2	3837	
5786	226	82/08/14	0509:38	0510:05	444	535	39222	5		SN,EG
7676	226	82/08/14	0735:06	0735:27	39	53		2		I
5787	228	82/08/16	0203:15	0204:35	273	259	59307	5		ND
5788	228	82/08/16	1232:35	1233:55	198	77		3		AX,EW
7678	229	82/08/17	0646:36	0647:36	134	75		2		I
7679	229	82/08/17	2031:49	2031:57	18	92		2		I
7680	230	82/08/18	0057:07	0057:25	45	57		2		I
7681	230	82/08/18	0105:45	0106:07	61	112	847	2		I
5789	230	82/08/18	0407:41	0407:48	13	69		2		
5790	230	82/08/18	0750:55	0752:10	175	74		2		
5791	230	82/08/18	0753:51	0754:49	118	72		2		
7684	230	82/08/18	1207:04	1207:21	100	69		2		I
7685	230	82/08/18	1350:21	1350:32	14	63		2		I
5792	230	82/08/18	2346:42	2347:06	63	79		2		
5793	231	82/08/19	0047:20	0047:53	69	136	1680	2		
7686	231	82/08/19	0305:32	0307:05	146	57		2		I
7687	231	82/08/19	0411:15	0411:27	33	359	2868	3		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7688	231	82/08/19	0907:59	0908:08	21	106	477	2		I
12710	232	82/08/20	1359:08	1359:11	14	71	134	8		NS,GB
5794	233	82/08/21	1609:41	1611:03	210	75		2		
12711	237	82/08/25	1134:03	1134:06	13	62	147	9		NS,GB
7691	238	82/08/26	2256:30	2301:10	661	393	24844	3		I
7692	239	82/08/27	0323:51	0325:56	564	1012	66227	3		I
7693	239	82/08/27	0539:03	0539:17	95	67		2		I
7694	239	82/08/27	0546:31	0549:11	505	391	30147	2		I
5799	239	82/08/27	2106:46	2107:00	58	72		2		
5800	240	82/08/28	0215:09	0215:44	68	65		2		
5801	240	82/08/28	0508:30	0509:04	83	97		2		
5802	240	82/08/28	0642:25	0642:56	76	79		2		
12712	240	82/08/28	1349:30	1349:38	10	46	71	8		NS,GB
5803	240	82/08/28	2212:37	2212:46	19	60		2		
5804	240	82/08/28	2258:13	2300:31	152	381	4303	5		FS
5805	241	82/08/29	0314:16	0314:56	165	80		2		
5806	241	82/08/29	0345:08	0345:53	70	68		2		
5807	241	82/08/29	2334:51	2336:23	118	63		2		AX
5808	242	82/08/30	0013:02	0014:41	168	171	3474	2		
7695	243	82/08/31	0553:18	0605:21	1045	216	50171	2		I
5809	243	82/08/31	0743:05	0743:22	56	98		2		
5810	243	82/08/31	1721:15	1725:26	633	223	49026	2		
5811	243	82/08/31	1857:56	1858:24	72	139	2465	2		
5812	244	82/09/01	0738:14	0739:29	191	96		2	3886	AX
7696	244	82/09/01	0845:58	0857:12	1251	311	77817	2		I ,SA
5813	244	82/09/01	0917:21	0918:44	196	114	6768	2		
5814	244	82/09/01	1619:51	1620:53	201	475	14605	4		EW
5815	244	82/09/01	1829:10	1829:17	29	59		2		EW
5816	244	82/09/01	2126:55	2127:42	104	96	4601	2		
5817	245	82/09/02	2125:25	2126:12	149	57		2		
5818	245	82/09/02	2259:40	2259:58	40	89		2		
5819	245	82/09/02	2308:39	2309:34	138	99		5		AX
5820	246	82/09/03	0138:01	0138:35	165	67		2		
5821	248	82/09/05	0308:50	0309:36	127	65		2		
5822	249	82/09/06	0041:59	0042:32	95	65		2		
7698	249	82/09/06	0430:50	0431:16	55	68		2		I
7699	249	82/09/06	2018:46	2021:32	230	149	1989	2		I
5823	249	82/09/06	2159:12	2200:29	316	119	6299	5		
5824	249	82/09/06	2329:27	2331:22	199	65		2		
7700	250	82/09/07	1810:15	1811:00	56	78		2		I ,EG
5825	251	82/09/08	2123:00	2123:46	215	75		3		SG
5826	252	82/09/09	0200:40	0201:08	150	62		2		
5827	252	82/09/09	0953:11	0953:36	39	69		2		
5828	252	82/09/09	0954:38	0955:02	30	59		2		
5829	252	82/09/09	0956:35	0956:58	90	174	2135	2		
5830	252	82/09/09	1011:41	1011:46	51	61		2		
5831	252	82/09/09	1014:38	1015:13	77	68		2		
7701	252	82/09/09	1927:18	1927:59	89	59		2		I
5832	253	82/09/10	0014:37	0015:04	97	62		2		
5833	253	82/09/10	0019:44	0022:38	220	77	2654	2		EW
5834	253	82/09/10	0437:03	0439:08	470	75	3644	2		
5835	253	82/09/10	0826:21	0826:50	114	869	18849	4		
5836	253	82/09/10	2143:59	2144:12	43	73		2		
5837	253	82/09/10	2147:32	2147:56	70	113	1698	5		
5838	254	82/09/11	0607:08	0607:29	59	68		2		
5839	254	82/09/11	0634:22	0635:22	102	64		2		
5840	254	82/09/11	1529:18	1529:43	84	88		2		
5841	255	82/09/12	1548:56	1550:07	81	87		2		
7702	257	82/09/14	1255:36	1255:49	31	61		8		I
5845	257	82/09/14	2352:51	2353:11	62	69		2		
5846	258	82/09/15	0214:05	0218:02	519	70	3191	2		
7703	258	82/09/15	0532:09	0532:44	57	49		3		I
7713	258	82/09/15	2248:59	2249:22	38	67		2		I ,ND
5856	259	82/09/16	0822:53	0823:25	74	56		14		
5854	260	82/09/17	0301:53	0302:31	110	61		2		EW
7714	260	82/09/17	1354:59	1355:50	145	90		2		I
5855	261	82/09/18	1508:11	1508:52	109	60		2		
7724	261	82/09/18	1639:24	1639:52	124	311	6083	3		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
5858	263	82/09/20	1131:18	1131:25	21	118	736	10		
7737	263	82/09/20	2217:42	2217:52	25	62		5		I
7738	264	82/09/21	1106:27	1106:42	37	80		2		I
7739	265	82/09/22	0922:52	0923:20	66	77		2		I
7740	265	82/09/22	1121:02	1122:12	82	63		2		I
7741	265	82/09/22	1132:50	1133:51	126	74		4		I
5864	266	82/09/23	0854:17	0854:28	30	94		6		
7744	267	82/09/24	1142:13	1142:24	44	63		2		I
7748	269	82/09/26	1304:38	1305:47	145	73		2		I
5867	269	82/09/26	1421:23	1425:46	408	145	11577	5		EG,AX
5868	270	82/09/27	0141:39	0142:17	101	102	1730	2		
7749	270	82/09/27	0251:20	0251:57	80	64		13		I
5869	271	82/09/28	0815:52	0816:14	41	63		2		
5870	271	82/09/28	2330:53	2331:20	89	2052	31286	7		M5
5871	272	82/09/29	0220:44	0220:52	13	62		2		
7751	272	82/09/29	1341:58	1342:23	37	63		2		I
7752	272	82/09/29	1518:12	1523:33	522	394	31748	4		I ,ES
5872	272	82/09/29	1842:17	1842:26	28	56		2		ES
5873	272	82/09/29	2014:57	2015:32	95	69		2		
5874	272	82/09/29	2016:33	2017:33	146	94		2		
5875	273	82/09/30	0836:23	0837:19	362	124	2792	2		
5876	273	82/09/30	1033:24	1036:39	335	125	4553	2		AX
5877	273	82/09/30	1203:58	1204:54	902	164	22759	13		AX
5878	273	82/09/30	1630:26	1632:29	211	110	3022	2		
7753	273	82/09/30	2308:48	2309:15	34	67		2		I
5879	275	82/10/02	1239:34	1239:56	52	66		2		
7757	275	82/10/02	1407:46	1407:56	60	70		3		
7758	275	82/10/02	1903:03	1903:28	47	60		2		I
7759	275	82/10/02	2105:54	2105:58	15	68		2		I
5880	276	82/10/03	0440:27	0440:47	58	75		2		
5881	276	82/10/03	2012:19	2012:34	93	63		2		EW
5886	277	82/10/04	0403:42	0405:32	132	64		2		EW
5882	277	82/10/04	0612:42	0612:50	27	176	604	2		
5883	277	82/10/04	0750:10	0750:23	46	351	3504	3		
5885	277	82/10/04	1648:40	1649:06	44	72		2		
5888	278	82/10/05	2143:14	2144:51	200	74		2		
5890	279	82/10/06	0353:52	0355:39	128	208	40639	3		ND
5887	279	82/10/06	0544:33	0545:28	116	63		2		
7762	279	82/10/06	2126:19	2126:40	85	63		2		I
5889	279	82/10/06	2301:36	2303:36	526	1278	1.26E+05	3	3930	M5
7763	280	82/10/07	0656:40	0657:13	79	87		2		I
7766	285	82/10/12	2249:12	2249:21	17	58		2		I
7767	285	82/10/12	2250:10	2250:15	11	59		2		I
5891	286	82/10/13	0655:26	0655:41	32	59		2		
5892	287	82/10/14	0014:36	0014:59	40	415	4244	4		
5893	287	82/10/14	0151:07	0151:13	12	82		2		
5894	287	82/10/14	0152:30	0152:51	148	243	4307	3		
12713	288	82/10/15	1307:04	1307:05	4	213	219	8		NS,GB
5895	288	82/10/15	2035:50	2037:39	680	214	15863	3		
5896	289	82/10/16	2122:30	2122:53	55	68		2		
5897	289	82/10/16	2131:21	2132:16	149	71		4		
5898	290	82/10/17	2108:42	2109:06	68	71		5		
5899	290	82/10/17	2326:23	2330:37	303	127	3866	6		
5900	291	82/10/18	0201:15	0202:41	140	74		3		
5901	291	82/10/18	0417:47	0417:51	208	58		3		
5902	292	82/10/19	0007:50	0009:15	161	62		2		AX,EW
6735	292	82/10/19	0636:49	0637:02	28	97		2		
5903	292	82/10/19	1133:26	1139:29	501	285	9735	2		
5904	292	82/10/19	1803:15	1803:39	96	91		2		
5905	292	82/10/19	1919:43	1920:11	81	58		2		
7771	292	82/10/19	2211:00	2211:02	84	61		2		I
5906	293	82/10/20	0123:24	0123:57	83	72		2		
5907	294	82/10/21	0107:17	0108:04	157	79		3		AX
5908	294	82/10/21	0133:35	0134:09	68	59		2		
5909	294	82/10/21	0812:12	0812:57	51	71		2		
7772	294	82/10/21	1602:53	1603:08	32	85		2		I
7773	294	82/10/21	1603:28	1603:44	38	62		2		I
5910	294	82/10/21	2001:29	2002:17	98	55		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
5911	294	82/10/21	2215:43	2216:29	108	121	3187	3		
7774	295	82/10/22	0911:21	0911:45	70	59		2		I
5912	295	82/10/22	2121:59	2122:43	90	64		2		EW
5913	295	82/10/22	2156:40	2157:31	103	72		6		EW
7778	296	82/10/23	0029:30	0030:20	165	74		2		I
7779	296	82/10/23	0225:05	0225:32	87	57		2		I
7780	296	82/10/23	1219:17	1219:29	25	74		2		I
7781	296	82/10/23	2241:02	2242:12	114	58		2		I
7782	297	82/10/24	0019:53	0020:00	29	55		2		I
7783	297	82/10/24	0156:03	0156:13	18	60		2		I
7784	297	82/10/24	0200:50	0201:07	95	62		2		I
7785	297	82/10/24	0409:18	0409:43	96	155	2297	2		I
7786	297	82/10/24	0519:59	0520:09	24	146	682	2		I
7787	297	82/10/24	0532:16	0534:54	340	133	5617	2		I
7788	297	82/10/24	0652:20	0652:33	82	91	998	14		I ,NS,GB
7789	297	82/10/24	0703:47	0704:30	115	195	3423	2		I
7790	297	82/10/24	0826:06	0827:13	115	149	3819	2		I
7791	297	82/10/24	1503:46	1504:47	117	227	3118	2		I
7792	297	82/10/24	1508:19	1511:21	439	1899	90593	6		M5,I ,EN
7793	297	82/10/24	2122:34	2122:38	18	62		2		I
7794	297	82/10/24	2238:56	2239:16	52	129	970	2		I
7796	297	82/10/24	2352:27	2354:10	197	85		3		I
7797	298	82/10/25	0025:36	0026:39	117	134	2192	2		I
7798	298	82/10/25	0326:12	0331:54	710	78	8016	2		I
7799	298	82/10/25	0528:36	0529:00	76	68		2		I
5914	298	82/10/25	1130:58	1131:11	173	95		2		EW
5915	298	82/10/25	1552:01	1552:45	70	58		2		
5916	298	82/10/25	1557:31	1559:00	188	74		2		
5917	298	82/10/25	1845:06	1845:52	88	89		2		
7804	298	82/10/25	1847:45	1848:03	42	71		2		
7805	298	82/10/25	1910:18	1910:52	46	57		2		
5918	298	82/10/25	2249:32	2253:33	262	487	31758	5		
7800	298	82/10/25	2331:29	2332:09	68	55		2		I
5919	299	82/10/26	0025:20	0025:45	93	1046	13934	5	3960	
5920	299	82/10/26	0137:38	0138:02	31	73		2		
5921	299	82/10/26	2014:42	2015:08	37	56		2		
5922	299	82/10/26	2204:11	2204:22	110	100	1619	2		
5923	300	82/10/27	0052:19	0052:43	156	145	2130	2		
5924	300	82/10/27	0303:24	0305:16	210	829	23467	3		
5925	300	82/10/27	0409:01	0409:17	401	826	75549	4	3955	SA
5926	300	82/10/27	0427:46	0436:00	1568	1108	2.88E+05	8	3995	M5
5927	300	82/10/27	0751:37	0751:50	26	88		2		
5928	300	82/10/27	1045:44	1045:57	103	87		2		
5929	300	82/10/27	1545:17	1545:49	56	86		2		EW
7801	300	82/10/27	1646:39	1646:53	30	56		2		I
5930	300	82/10/27	1827:23	1827:50	45	59		2		EW
5931	300	82/10/27	1950:58	1951:18	63	64		2		EW
5932	300	82/10/27	2007:48	2007:59	87	63		2		EW
5933	300	82/10/27	2013:10	2013:16	40	53		2		EW
5934	300	82/10/27	2017:26	2019:25	220	214	11396	3		EW
5935	301	82/10/28	0352:05	0352:31	58	168	2598	4		
12714	301	82/10/28	1933:47	1933:48	3	34				NS,GB
12715	302	82/10/29	1226:21	1227:03	51	51	481	6		NS,GB
7802	302	82/10/29	1347:11	1348:54	260	83	4145	2		I
7803	302	82/10/29	1437:15	1437:25	35	61		8		I
7806	302	82/10/29	1912:43	1913:24	123	90		4		I
5936	303	82/10/30	0350:03	0350:18	38	85		2		
5937	303	82/10/30	1730:26	1730:47	62	89		2		
5938	303	82/10/30	1933:36	1934:54	195	89		13		AX
7892	304	82/10/31	1400:24	1400:31	18	86		15		I
5939	304	82/10/31	2211:42	2211:51	22	51		2		
7807	305	82/11/01	1847:49	1848:10	60	99		2		I ,SG
5940	305	82/11/01	1953:51	1954:07	57	150	2296	7		SN,AX
5941	305	82/11/01	2006:04	2008:37	263	107	3281	2		
5942	305	82/11/01	2204:26	2205:54	170	69		5		
5943	305	82/11/01	2217:48	2218:56	162	83		5		
5944	306	82/11/02	0131:51	0131:54	10	112	243	15		NS,GB
7808	306	82/11/02	0912:27	0914:37	242	117	1976	2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
5945	306	82/11/02	1221:39	1222:11	71	55		2		
5946	306	82/11/02	1626:49	1627:57	128	132	3317	2		
7809	306	82/11/02	2201:43	2203:18	151	110	2875	2		I
7810	307	82/11/03	0048:46	0049:53	137	237	26373	3		I
5947	307	82/11/03	0349:29	0350:11	145	206	4279	3		
5948	307	82/11/03	0709:44	0711:04	148	89		2		
5949	307	82/11/03	0735:12	0735:25	25	112	658	2		
5950	307	82/11/03	2140:02	2140:28	77	68		15		AX
6784	308	82/11/04	0329:59	0331:04	98	2417	19600	15		M5,I ,FS,NS,GB
5951	308	82/11/04	0849:49	0849:55	55	64		14		
5952	308	82/11/04	1435:03	1435:31	67	67		2		
7811	309	82/11/05	1137:19	1137:28	54	103	1353	12		I
7812	311	82/11/07	0854:21	0854:37	45	54		3		I
7813	311	82/11/07	0855:22	0855:31	31	110	670	5		I
7814	311	82/11/07	0856:53	0857:48	103	116	1675	5		I
5953	311	82/11/07	1101:34	1102:14	91	54		11		AX
7815	312	82/11/08	1015:13	1015:36	129	76		2		I
7816	312	82/11/08	1017:35	1018:06	71	75		2		I
5954	312	82/11/08	1216:31	1217:36	94	81		2		
5955	312	82/11/08	1218:45	1219:08	52	62		2		
5956	312	82/11/08	1223:31	1223:56	38	69		2		
5957	312	82/11/08	1531:46	1532:53	109	140	2903	2		
7817	312	82/11/08	1655:44	1655:58	33	69		2		I
5958	314	82/11/10	0022:17	0022:39	135	99		2		
7818	314	82/11/10	0349:58	0350:29	68	71		2		I
5959	314	82/11/10	1757:03	1759:04	134	96		2		AX
5960	314	82/11/10	1921:08	1921:33	56	65		2		
5961	315	82/11/11	0216:21	0216:49	58	121	1225	2		EN
5962	315	82/11/11	0629:57	0630:13	43	85		2		EW
5963	315	82/11/11	0656:50	0657:10	80	71		2		EW
7819	315	82/11/11	0810:18	0810:39	43	129	1508	2		I
7822	316	82/11/12	1417:46	1432:03	1301	2309	7.52E+05	14		M5,I ,EN,SG
7823	316	82/11/12	1708:44	1709:19	59	61		2		I
7824	316	82/11/12	2026:26	2026:49	42	211	1929	2		I
7825	316	82/11/12	2147:19	2147:28	15	64		2		I
7826	317	82/11/13	2257:50	2258:12	47	93		2		I
7827	318	82/11/14	0025:51	0031:30	623	64	23988	2		I
7828	318	82/11/14	1944:08	1944:27	28	66		2		I
5964	319	82/11/15	1614:22	1616:11	390	496	56681	3		DG
7829	320	82/11/16	2043:51	2044:35	183	82		2		I
5965	321	82/11/17	1039:27	1040:09	166	98		2		
5966	321	82/11/17	1042:42	1043:01	114	81		2		
7830	321	82/11/17	1357:56	1402:37	557	2152	2.43E+05	3		M5,I
5967	322	82/11/18	0122:44	0123:58	192	113	5248	2		EW
5968	322	82/11/18	0302:51	0303:39	135	112	2007	2		
5969	322	82/11/18	0454:15	0455:00	200	98		2	3994	
7831	322	82/11/18	2151:15	2151:20	36	90		2		I
5974	323	82/11/19	0528:42	0529:57	565	393	61752	3		
5970	323	82/11/19	0729:59	0731:11	195	89		2	3994	
5971	323	82/11/19	2314:35	2315:26	102	136	2014	2		
5972	323	82/11/19	2318:32	2318:50	32	88		2		
5973	324	82/11/20	0156:15	0215:24	1602	152	37482	2		
5975	324	82/11/20	1010:06	1012:03	453	3269	3.61E+05	5	3994	
7832	324	82/11/20	1432:47	1433:17	55	98		2		I
5976	324	82/11/20	2235:02	2235:21	44	125	1291	2		
7833	324	82/11/20	2254:49	2254:59	41	72		2		I
7834	325	82/11/21	0001:17	0001:29	34	76		2		I
5977	325	82/11/21	0135:26	0136:14	70	93		2		EW
7835	325	82/11/21	0815:55	0816:05	16	90		2		I
7836	325	82/11/21	0925:46	0926:23	82	105	1576	2		I
7837	325	82/11/21	1019:42	1020:51	264	265	26515	2		I
7838	325	82/11/21	1154:37	1154:50	84	91		2		I
7839	325	82/11/21	1158:27	1158:33	26	210	1080	2		I
7840	325	82/11/21	1416:11	1419:37	616	1409	1.36E+05	3		M5,I
7841	325	82/11/21	1741:44	1742:01	38	78		2		I
7842	325	82/11/21	2035:15	2035:57	70	200	3064	3		I
5978	325	82/11/21	2355:18	2355:27	50	132	811	2		
5979	326	82/11/22	0339:08	0339:22	50	63		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
5980	326	82/11/22	0450:03	0450:46	125	177	3668	2		
6729	326	82/11/22	0738:32	0738:41	19	52		2		I
6730	326	82/11/22	0739:03	0739:08	22	72		2		I
6731	326	82/11/22	0746:37	0746:47	48	90		2		I
6732	326	82/11/22	0925:49	0927:24	124	121	940	2		I
5981	326	82/11/22	1129:18	1129:30	149	210	2304	5		
5982	326	82/11/22	1139:06	1139:27	110	62		2		
5983	326	82/11/22	1219:55	1220:02	20	55		2		
6733	326	82/11/22	1222:12	1223:18	393	9983	1.69E+05	11	3994	M5,I
5984	326	82/11/22	1444:06	1444:14	30	1798	11326	10	4001	M5
5985	326	82/11/22	1450:34	1450:39	12	118	341	4		
5986	326	82/11/22	1533:40	1533:44	30	105	416	2		
5987	326	82/11/22	1537:44	1537:53	104	144	2071	3		
5988	326	82/11/22	1702:00	1702:08	164	286	6662	8		SN
6775	326	82/11/22	1759:45	1759:55	4213	547	14309	5		I ,EN,IN,SA
6776	326	82/11/22	2028:05	2028:14	65	81		2		I
6777	326	82/11/22	2047:45	2047:55	15	83		2		I
6778	326	82/11/22	2150:13	2150:20	34	66		2		I
6779	326	82/11/22	2151:55	2154:38	436	186	12566	2		I
6780	326	82/11/22	2321:12	2321:42	51	86		2		I
6781	326	82/11/22	2329:11	2329:19	29	292	1901	3		I
6782	326	82/11/22	2343:58	2346:04	417	168	17109	2		I
6783	326	82/11/22	2353:00	2353:46	66	61		2		I
7843	327	82/11/23	0125:04	0125:52	85	79		2		I
7844	327	82/11/23	0153:08	0153:19	35	126	901	3		I
5989	327	82/11/23	0245:21	0245:54	49	111	549	2		EW
5990	327	82/11/23	0317:21	0317:39	88	3734	72240	8		EW
5991	327	82/11/23	0324:54	0325:44	100	136	1594	5		EW
7845	327	82/11/23	0406:44	0406:57	92	131	1796	2		I
7846	327	82/11/23	0427:33	0428:10	124	412	6889	3		I
7847	327	82/11/23	0548:26	0548:33	13	71		2		I
7848	327	82/11/23	0628:03	0629:02	99	114	2671	2		I
7849	327	82/11/23	0633:54	0634:01	18	70		2		I
7850	327	82/11/23	0715:17	0715:30	137	100		2		I
7851	327	82/11/23	0805:50	0806:28	390	3715	72373	8		M5,I
7852	327	82/11/23	0859:17	0859:57	48	72		2		I
7853	327	82/11/23	0920:27	0921:07	118	217	10670	2		I
5992	327	82/11/23	1032:54	1033:24	77	113	863	2		
5993	327	82/11/23	1107:34	1108:14	78	74		2		
5994	327	82/11/23	1111:08	1111:35	104	264	3093	5		
5995	327	82/11/23	1113:35	1115:26	199	132	3843	2		
5996	327	82/11/23	1117:58	1120:57	307	321	7101	8		M5
5997	327	82/11/23	1202:18	1202:52	51	122	1497	4		
5998	327	82/11/23	1246:53	1247:37	218	171	6945	5		
5999	327	82/11/23	1335:13	1336:55	142	58		2		
6000	327	82/11/23	1340:09	1340:38	161	119	1889	4		
6001	327	82/11/23	1344:56	1345:49	250	2201	65222	10		M5
6002	327	82/11/23	1425:49	1426:11	112	97		2		
6003	327	82/11/23	1431:28	1431:52	97	404	5472	7		
6004	327	82/11/23	1510:48	1511:53	100	195	4559	5		
6005	327	82/11/23	1517:09	1517:58	79	149	1527	3		
6006	327	82/11/23	1519:49	1520:19	155	183	5285	4		
6007	327	82/11/23	1606:46	1607:00	69	81		2		
6008	327	82/11/23	1652:27	1652:51	71	572	6824	6		FS
6009	327	82/11/23	1820:02	1820:14	51	71		2		
6010	327	82/11/23	1958:38	1959:37	177	78		2		
6011	327	82/11/23	2020:45	2021:05	44	83		2		
7855	327	82/11/23	2315:29	2315:50	42	186	2052	2		I
7856	327	82/11/23	2323:15	2323:48	54	78		2		I
7857	327	82/11/23	2359:45	0001:38	124	153	2379	2		I
6012	328	82/11/24	0442:47	0444:17	205	155	9290	3		EW
6013	328	82/11/24	0554:37	0555:14	98	67		2		EW
7858	328	82/11/24	0707:47	0707:54	22	65		2		I
7859	328	82/11/24	0916:52	0917:35	105	96		2		I
6014	328	82/11/24	1939:18	1939:38	46	363	2840	5		EW
6015	328	82/11/24	1942:33	1943:33	103	64		2		EW
7860	328	82/11/24	2126:31	2130:38	377	176	17256	2		I
7861	328	82/11/24	2331:13	2331:19	14	82		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7862	328	82/11/24	2331:30	2331:37	20	83		2		
7863	329	82/11/25	0020:21	0020:54	93	57		2		I
6737	329	82/11/25	0355:52	0355:58	65	76		2		I
6738	329	82/11/25	0413:28	0414:23	761	4200	1.16E+05	10	3994	M5,I
7866	329	82/11/25	0508:16	0508:27	21	195	580	3		I
7867	329	82/11/25	0726:09	0726:30	40	98		2		I
7868	329	82/11/25	0729:41	0730:01	35	78		2		I
7869	329	82/11/25	1221:13	1221:30	48	141	17542	6		I
7870	329	82/11/25	1303:45	1304:07	51	266	3362	4		I
7871	329	82/11/25	1747:36	1747:53	54	240	2582	3		I
6017	330	82/11/26	0217:52	0233:22	18188	22747	4.86E+06	15	3994	M5,I ,IN,DG
6274	330	82/11/26	0515:47	0517:02	196	441	12364	3		EW
7876	330	82/11/26	0626:28	0627:13	65	64		2		I
7872	330	82/11/26	1242:04	1242:26	99	59		2		I
7873	330	82/11/26	1506:06	1506:38	184	1889	50250	9		M5,I
7874	330	82/11/26	1610:21	1611:15	167	9400	2.22E+06	7		M5,I
7875	330	82/11/26	2238:42	2238:53	46	144	1128	3		I
7879	332	82/11/28	0257:46	0258:15	68	62		2		I
6018	332	82/11/28	0557:16	0557:30	57	139	2222	2		AX
6019	332	82/11/28	0749:09	0749:17	59	82		2		
7880	332	82/11/28	0930:40	0931:21	67	68		2		I
6020	332	82/11/28	2322:21	2322:40	31	67		2		
6021	333	82/11/29	0305:14	0305:46	95	76		2		
6022	333	82/11/29	0740:41	0740:48	23	62		2		
6023	333	82/11/29	0927:35	0929:09	215	115	3582	2		
7885	333	82/11/29	2136:57	2137:41	166	2875	47586	7		M5,I
7886	333	82/11/29	2322:31	2323:28	144	164	5370	2		I
6024	334	82/11/30	0044:56	0045:34	65	228	2581	3		
6025	334	82/11/30	0046:39	0046:53	89	132	1869	2		
6026	334	82/11/30	0336:46	0337:10	45	81		2		
6027	334	82/11/30	0411:22	0411:39	53	687	6323	3		
7887	334	82/11/30	0735:11	0738:25	514	81	2951	2		I
6028	335	82/12/01	0010:54	0011:05	37	189	1351	3		
7888	336	82/12/02	0003:20	0003:46	86	230	3431	3		I
6029	336	82/12/02	0259:36	0259:49	57	80		2		
6030	336	82/12/02	1003:53	1004:24	100	68		2		
6031	336	82/12/02	2108:57	2111:46	404	263	34789	5		
6033	336	82/12/02	2240:12	2241:32	150	85		2		EW
7889	337	82/12/03	0014:30	0015:22	119	61		2		I
7890	337	82/12/03	0111:22	0113:15	991	327	38080	3		I
7891	337	82/12/03	0302:58	0303:15	40	90		2		I
6032	337	82/12/03	0637:28	0638:00	60	62		2		
6034	337	82/12/03	1914:15	1914:28	33	159	1037	3		
6035	337	82/12/03	2142:19	2142:52	98	76		2		
6036	338	82/12/04	0912:17	0913:17	236	626	33414	2	4014	SA
6037	338	82/12/04	0925:45	0926:28	118	261	3481	3		DG
7895	338	82/12/04	1559:05	1559:29	46	57		2		I
7896	338	82/12/04	2027:02	2027:59	92	97		2		I
6038	339	82/12/05	0047:35	0048:42	125	66		2		
6039	339	82/12/05	0256:35	0257:10	98	78		2		
6040	339	82/12/05	0918:39	0918:57	38	57		2		
7897	339	82/12/05	1958:26	1959:14	121	182	5626	2		I
6041	339	82/12/05	2109:53	2110:30	65	119	2128	5		
7898	339	82/12/05	2245:02	2245:50	92	293	9091	2		I
7899	339	82/12/05	2255:07	2255:54	68	69		2		I
6042	339	82/12/05	2330:46	2331:39	82	80		4		
6043	340	82/12/06	0020:29	0021:15	154	426	19615	6		AX
6044	340	82/12/06	0029:18	0030:34	152	87		3		
6045	340	82/12/06	0109:53	0110:38	68	69		3		
6046	340	82/12/06	0207:14	0207:45	65	64		2		
7906	340	82/12/06	1117:37	1117:51	55	94		2		I
7907	340	82/12/06	1748:40	1748:55	26	69		2		I
7908	340	82/12/06	1820:09	1820:18	24	81		2		I
7909	340	82/12/06	1948:27	1948:41	26	63		2		I
7910	340	82/12/06	1949:54	1950:01	50	64		2		I
7911	340	82/12/06	2105:00	2113:05	826	1600		3		I ,DG,ND
6047	340	82/12/06	2136:34	2136:56	37	74		2		
6048	340	82/12/06	2359:22	0001:07	206	240	17695	5		ND

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7916	341	82/12/07	0014:52	0015:05	85	71		2		I
7922	341	82/12/07	0208:48	0209:18	148	171		2		I ,ND
7923	341	82/12/07	0218:55	0221:05	270	234		2		I ,ND
7924	341	82/12/07	0329:30	0329:50	52	76		2		I
6049	341	82/12/07	0700:17	0701:16	91	76		2		
6050	341	82/12/07	0702:35	0703:46	85	88		2		
6051	341	82/12/07	1317:14	1319:19	261	197	15341	2		
7925	341	82/12/07	1417:00	1417:24	50	99		2		I
6052	341	82/12/07	1622:59	1623:12	43	61		2		
6053	341	82/12/07	1742:08	1742:42	67	96		2	4019	
6054	341	82/12/07	1746:58	1748:56	202	332	7085	5		
6055	341	82/12/07	1756:32	1757:04	57	76		2		
6056	341	82/12/07	1806:24	1810:11	518	427	45017	2		
6057	341	82/12/07	2031:48	2031:53	8	90		2		
6058	341	82/12/07	2201:38	2202:58	97	63		2		
6059	341	82/12/07	2252:13	2252:51	148	85		7		AX
6060	341	82/12/07	2335:30	2352:41	3539	23654	1.80E+07	15	4007	M5,SN,EN
6061	342	82/12/08	0134:09	0134:40	51	67		2		
6062	342	82/12/08	0156:01	0156:12	33	65		2		
6063	342	82/12/08	0159:58	0200:49	104	70		2		
6064	342	82/12/08	0203:45	0204:44	65	69		2		
6065	342	82/12/08	0207:17	0207:32	170	82		2		
6066	342	82/12/08	0253:52	0255:02	200	110	3126	2		
6067	342	82/12/08	0301:14	0306:26	769	312	59282	2		
6068	342	82/12/08	0825:13	0828:03	207	114	2082	2	4022	
6069	342	82/12/08	0939:01	0939:19	49	90		2		
6070	342	82/12/08	0950:41	0950:56	39	68		2		
6071	342	82/12/08	0953:07	0953:36	60	86		2		
7928	342	82/12/08	1110:11	1113:03	1320	290	69214	2		I ,SA
6072	342	82/12/08	1348:20	1443:52	6734	2454	1.59E+06	15	4022	M5,SN,IN,IS
6073	342	82/12/08	1609:23	1609:54	255	106	3131	2		
7929	342	82/12/08	1704:07	1704:18	172	168	1883	2		I
7930	342	82/12/08	2007:42	2008:16	114	63		2		I
7931	342	82/12/08	2010:42	2011:14	60	72		2		I
6074	342	82/12/08	2336:03	2337:04	79	72		2		
6075	342	82/12/08	2342:37	2343:05	55	75		2		
7935	343	82/12/09	0253:32	0254:25	95	76		2		I
7936	343	82/12/09	0255:59	0257:19	163	85		2		I
7937	343	82/12/09	0418:50	0419:41	83	65		2		I
7938	343	82/12/09	0423:58	0424:42	117	206	5262	2		I
7939	343	82/12/09	0602:09	0602:20	27	75		2		I
7943	343	82/12/09	0935:21	0938:27	569	269	38178	2		I
7944	343	82/12/09	1051:23	1051:45	51	75		2		I
7945	343	82/12/09	1505:18	1505:46	48	58		2		I
6076	343	82/12/09	1600:44	1601:20	196	205	6443	2	4014	EW
6077	343	82/12/09	1733:30	1737:07	319	259	19941	3	4014	EN,EW
6078	343	82/12/09	1848:46	1849:04	42	71		2		
6079	343	82/12/09	1859:39	1902:43	376	469	26528	3	4022	
6080	343	82/12/09	2124:26	2125:04	46	69		2		
6081	343	82/12/09	2142:33	2145:42	2134	2936	1.01E+06	5	4022	M5
6082	344	82/12/10	0040:29	0040:56	153	76		2		
6083	344	82/12/10	0043:32	0044:17	87	97		2		
6084	344	82/12/10	0050:00	0051:23	226	202	16925	2	4014	
6085	344	82/12/10	0115:26	0115:57	736	323	32114	2		M5
6086	344	82/12/10	0131:16	0131:29	24	68		2		
6087	344	82/12/10	0236:12	0240:55	1798	3311	5.66E+05	5	4014	M5
7946	344	82/12/10	0356:03	0425:04	2771	1187	8.71E+05	3		M5,I ,EN,SA
6088	344	82/12/10	1316:20	1320:49	441	211	28070	2		ES,EW
6089	344	82/12/10	1349:32	1350:49	145	98		2		EW
6090	344	82/12/10	1525:35	1526:36	71	121	1012	2		SG,EG,DG
6091	344	82/12/10	1532:55	1535:02	196	64		2		
6092	344	82/12/10	1815:40	1816:49	445	480	51354	3		
6093	344	82/12/10	1929:35	1931:14	196	72		2		
6094	344	82/12/10	2113:31	2115:53	715	83		2		
6095	344	82/12/10	2253:11	2253:20	22	116	601	2		
6096	345	82/12/11	0020:39	0020:57	31	74		2		
6097	345	82/12/11	0022:38	0023:23	81	68		2		
6098	345	82/12/11	0030:31	0031:21	482	126	5393	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6099	345	82/12/11	0048:48	0049:23	69	196	1602	3		
6100	345	82/12/11	0113:51	0114:21	40	73		2		EN
6101	345	82/12/11	0219:58	0226:04	662	100	6519	2		
6102	345	82/12/11	0235:51	0248:19	931	174	9985	4	4021	
7947	345	82/12/11	0344:49	0345:49	116	75		2		I
7948	345	82/12/11	0353:36	0354:43	99	66		2		I
7949	345	82/12/11	0356:23	0357:14	86	72		2		I
7950	345	82/12/11	0402:24	0402:35	75	62		2		I
7951	345	82/12/11	0415:36	0416:50	642	80	10343	2		I ,EN
6103	345	82/12/11	0543:48	0544:29	107	518	5931	3		
6104	345	82/12/11	1444:24	1445:44	266	179	6023	2		
7953	345	82/12/11	1616:14	1616:25	74	69		2		I
7954	345	82/12/11	1658:31	1658:47	35	54		2		I
7955	345	82/12/11	1757:04	1757:30	44	60		2		I
7956	345	82/12/11	1758:16	1758:30	45	64		2		I
6105	345	82/12/11	1824:29	1826:35	177	92		2		
7957	345	82/12/11	1942:27	1942:54	60	72		2		I
6106	345	82/12/11	1956:29	1956:47	76	79		2		ND
6107	345	82/12/11	2101:57	2102:48	89	75		2		ND
6108	345	82/12/11	2131:28	2131:45	143	86		6		AX,ND
6109	345	82/12/11	2305:53	2306:11	33	71		2		
6110	345	82/12/11	2314:14	2315:05	180	96		2		
6111	346	82/12/12	1546:42	1546:54	27	69		2		
6112	346	82/12/12	1607:36	1607:54	29	68		2		
6113	346	82/12/12	1800:38	1800:54	51	58		2		
6114	346	82/12/12	2343:11	2344:14	176	84		3		AX
6115	347	82/12/13	0139:26	0139:37	68	83		2		DG
6116	347	82/12/13	0320:52	0325:43	1602	12464	1.64E+06	15	4026	M5
6117	347	82/12/13	0657:20	0657:35	40	57		2		
6118	347	82/12/13	0802:43	0807:08	823	2807	3.49E+05	10	4026	M5,FS
6119	347	82/12/13	1134:36	1134:56	30	81		2		
6120	347	82/12/13	1743:57	1744:19	37	87		2		
7958	347	82/12/13	1856:23	1857:15	91	96		2		I
6121	348	82/12/14	0000:17	0000:38	94	88		2		EW
6122	348	82/12/14	0735:45	0739:41	372	182	6787	4		DG,EW
6123	348	82/12/14	1347:25	1347:48	34	87		2		EW
7959	348	82/12/14	2012:21	2019:45	1464	90	21867	2		I
7964	349	82/12/15	0059:53	0100:28	87	113	1318	2		I
7961	349	82/12/15	1055:08	1055:25	41	250	1741	2		I
7962	349	82/12/15	1319:36	1320:04	88	96		2		I
6124	349	82/12/15	1626:19	1632:40	1465	81391	1.32E+07	13	4026	
6125	349	82/12/15	1702:43	1704:48	518	124	7241	2		
6126	349	82/12/15	2143:50	2151:31	1608	5165	8.98E+05	8		
7963	349	82/12/15	2251:15	2251:24	24	185	1102	2		I
7965	350	82/12/16	1009:22	1009:39	487	163	21015	2		I ,SA
6127	350	82/12/16	1220:21	1220:59	71	81		2		
6128	350	82/12/16	1451:59	1502:12	2521	8678	3.71E+06	10	4021	M5,DG,FS
6129	350	82/12/16	1616:11	1621:13	463	125	14435	3		AX
6130	350	82/12/16	1632:10	1633:51	469	69	3067	2		
7966	350	82/12/16	1646:25	1646:45	62	78		2		I
7967	350	82/12/16	1648:05	1648:48	95	69		2		I
7968	350	82/12/16	1651:55	1652:54	149	113	2708	2		I
6131	350	82/12/16	1923:49	1928:16	822	269	26051	2	4021	
6132	350	82/12/16	2309:47	2310:19	139	155	3434	2		
6133	350	82/12/16	2314:02	2314:16	41	69		2		
6134	350	82/12/16	2316:01	2316:19	48	76		2		
6135	351	82/12/17	0002:59	0003:18	54	448	3892	3		FS
6136	351	82/12/17	0007:39	0007:54	45	103	762	2		
6137	351	82/12/17	0144:24	0145:55	1099	3596	3.46E+05	9	4026	M5,FS
6138	351	82/12/17	0219:57	0221:32	538	190	13240	2		
6139	351	82/12/17	0519:06	0519:39	144	430	14304	4		
6140	351	82/12/17	0850:14	0850:20	25	83		2		
6141	351	82/12/17	1000:26	1002:30	717	907	69234	3	4021	
6142	351	82/12/17	1202:25	1202:34	23	101	575	3		
6143	351	82/12/17	1441:30	1441:37	23	110	429	2		
6144	351	82/12/17	1643:25	1645:13	167	70		2		
6145	351	82/12/17	1818:49	1819:31	86	62		2		
6146	351	82/12/17	1854:40	1857:10	4059	108043	1.51E+07	15	4025	M5,SN,EN,DG

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6147	351	82/12/17	2031:32	2032:00	231	149	7663	2		
6148	351	82/12/17	2103:52	2106:30	1298	408	1.33E+05	5	4026	
6149	351	82/12/17	2244:01	2246:40	254	127	48173	2		EG
6150	352	82/12/18	0303:07	0303:28	65	133	1006	2		
6151	352	82/12/18	0304:21	0304:26	21	104	370	2		
7969	352	82/12/18	0350:13	0350:54	327	1882	52007	6		I ,ND
6152	352	82/12/18	0817:31	0822:02	1241	19095	1.56E+06	10	4026	M5,ND
6153	352	82/12/18	1752:30	1752:41	36	79		2		
6154	352	82/12/18	1922:08	1922:19	28	100	427	2		
6155	352	82/12/18	2017:01	2017:22	77	73		2		
6156	352	82/12/18	2049:02	2051:04	160	71		4		
6157	352	82/12/18	2248:02	2248:58	93	168	3112	2		ES
6158	352	82/12/18	2328:45	2329:30	76	72		2		
6159	352	82/12/18	2350:30	2350:50	72	110	1324	2		
6160	353	82/12/19	0020:44	0021:01	42	64		2		
6161	353	82/12/19	0133:23	0136:09	532	413	60072	4	4026	
6162	353	82/12/19	0142:51	0143:32	99	228	5071	4		
6163	353	82/12/19	0622:00	0622:12	38	87		2		
6164	353	82/12/19	0948:17	0949:00	228	380	6660	3		DG
6165	353	82/12/19	1128:13	1128:28	70	117	640	2		
6166	353	82/12/19	1130:47	1130:54	23	70		2		
6167	353	82/12/19	1207:39	1208:00	48	76		2		
6168	353	82/12/19	1347:45	1348:35	135	155	4606	2		ND
6169	353	82/12/19	1432:56	1433:11	65	64		2		
6170	353	82/12/19	1537:57	1540:16	170	112	1942	2		
6171	353	82/12/19	1542:51	1543:52	151	76		2		
6172	353	82/12/19	1549:28	1648:45	6668	304	1.36E+05	2	4022	IN
6173	353	82/12/19	1918:16	1918:31	159	63		2		
6174	353	82/12/19	2018:56	2019:10	108	534	13739	5		FS
6175	353	82/12/19	2038:18	2038:55	122	73		2		
6176	354	82/12/20	0102:02	0102:15	20	99		2		
7970	354	82/12/20	0124:30	0126:02	184	112	3587	2		I
6177	354	82/12/20	0550:22	0550:35	32	75		2		
6178	354	82/12/20	0617:37	0619:04	130	76		2		
6179	354	82/12/20	0723:58	0724:10	60	116	1044	2		
7971	354	82/12/20	0859:42	0900:13	189	178	4573	3		I
6180	354	82/12/20	0925:21	0925:27	18	65		2		
6181	354	82/12/20	1246:58	1247:35	195	72		2		
6182	354	82/12/20	1634:11	1634:41	173	70		2		
6183	354	82/12/20	1703:01	1706:42	332	169	15647	2		
6184	355	82/12/21	0211:35	0212:51	415	1193	87310	7		
6185	355	82/12/21	0421:49	0423:42	139	77		2		
6186	355	82/12/21	0432:54	0434:20	173	88		2		
6187	355	82/12/21	0544:47	0545:49	125	99		2		
6188	355	82/12/21	0559:17	0559:46	57	103	829	2		
6189	355	82/12/21	0605:36	0605:55	45	64		2		
6190	355	82/12/21	0612:27	0613:17	79	115	1920	2		
6191	355	82/12/21	1445:02	1445:11	67	67		2		
6192	355	82/12/21	1748:48	1749:08	28	73		2		
6193	355	82/12/21	1926:43	1927:42	113	96		2		
6194	355	82/12/21	2247:04	2247:55	80	82		2		
6195	355	82/12/21	2308:04	2309:07	124	155	11088	5		
7990	355	82/12/21	2326:16	2327:43	87	68		2		I ,ES
6196	356	82/12/22	0207:07	0208:33	144	100	3181	2		
6197	356	82/12/22	0211:02	0211:29	50	67		2		
6198	356	82/12/22	0218:41	0219:05	81	195	3440	2		
6199	356	82/12/22	0643:49	0644:04	53	117	1148	2		
6200	356	82/12/22	1616:41	1618:31	200	83		2		DG,ND
6201	356	82/12/22	1757:36	1758:06	100	63		2		
6202	356	82/12/22	2241:19	2241:58	124	64		2		
7972	357	82/12/23	0508:14	0508:36	57	65		2		I
6203	357	82/12/23	1019:19	1019:52	59	66		2		
7973	357	82/12/23	1324:09	1324:23	38	71		2		I
7974	357	82/12/23	1326:22	1326:32	55	85		2		I
7976	357	82/12/23	2158:23	2158:48	61	60		2		I
6204	358	82/12/24	0124:23	0124:47	78	69		2		
7977	358	82/12/24	0325:43	0327:08	112	85		2		I
6205	358	82/12/24	1305:45	1306:07	59	72		2		EW

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	6206	358	82/12/24	1310:23	1310:33	19	82		2		EW
	6207	358	82/12/24	1312:43	1313:05	125	61		2		EW
	6208	358	82/12/24	2153:31	2153:45	58	88		2		
	6209	359	82/12/25	1250:42	1251:29	57	123	1561	2		
	6210	359	82/12/25	1658:27	1658:47	80	89		2		
	6211	359	82/12/25	1707:28	1707:47	50	62		2		
	6212	359	82/12/25	2132:24	2132:39	34	76		2		
	6213	360	82/12/26	0102:21	0102:31	143	65		2		
	6214	360	82/12/26	1039:42	1040:06	100	341	3385	4		FS
	6215	360	82/12/26	1143:29	1143:56	33	90		2		
	6216	360	82/12/26	1159:19	1159:39	67	80		2		
	6217	360	82/12/26	1506:08	1510:03	485	460	29027	3		
	6218	361	82/12/27	0019:05	0019:22	48	84		2		
	6219	361	82/12/27	0159:30	0159:59	41	98		2		EW
	6220	361	82/12/27	0523:44	0524:21	376	375	28212	5		
	6221	361	82/12/27	0533:47	0534:15	38	62		2		
	6222	361	82/12/27	0814:59	0815:21	61	83		2		
	7984	361	82/12/27	1129:27	1129:51	115	99		2		I
	7985	361	82/12/27	1134:09	1134:54	130	95		2		I
	7986	361	82/12/27	1136:45	1137:28	83	228	4434	3		I
	7987	361	82/12/27	1427:11	1427:58	57	84		2		I
	6223	362	82/12/28	0306:03	0306:46	87	62		2		
	6224	362	82/12/28	0834:13	0834:45	55	63		2		
	6225	362	82/12/28	0846:23	0848:28	164	60		2		
	6226	362	82/12/28	0936:45	0937:33	82	59		2		
	6227	362	82/12/28	1556:52	1557:58	178	2287	1.33E+05	5	4032	M5
	6228	363	82/12/29	0136:29	0137:11	252	183	7452	2		
	6741	363	82/12/29	0643:00	0645:12	757	38120	7.49E+06	15	4033	I
	6229	363	82/12/29	0950:59	0951:12	45	61		2		
	6230	363	82/12/29	1622:15	1622:42	58	113	1999	2		EW
	6231	363	82/12/29	1727:16	1728:31	123	97		2		EW
	6232	363	82/12/29	2337:16	2337:58	72	128	693	2		EW
	6233	363	82/12/29	2348:18	2348:59	138	86	7462	2		EW
	6234	364	82/12/30	0141:15	0142:49	415	6891	1.47E+05	11	4033	M5,ES,FS
	6235	364	82/12/30	0411:23	0411:36	46	77		2		
	6236	364	82/12/30	0603:29	0604:02	56	61		2		
	6237	364	82/12/30	1519:20	1519:37	33	70		2		
	6238	364	82/12/30	1842:51	1845:25	234	423	18821	3		SA,EW
	6239	365	82/12/31	0246:05	0246:15	23	70		2		EW
	6240	365	82/12/31	1408:48	1409:19	94	64		3		
	7988	365	82/12/31	1958:17	1959:22	101	176	3298	3		I
	7989	1	83/01/01	0041:41	0042:36	240	698	48820	4		I
	7991	1	83/01/01	2256:54	2258:09	186	123	3817	2		I
	6241	2	83/01/02	0155:45	0158:29	399	645	55266	2	4033	
	7992	2	83/01/02	0202:43	0202:43	42	79		2		I
	6242	5	83/01/05	1321:37	1322:45	162	71		2		
*	6252	7	83/01/07	0204:56	0206:03	201	688	16380	7		EW
*	6251	7	83/01/07	0516:02	0516:19	29	200	1564	5		ND
	6253	9	83/01/09	1835:43	1836:05	45	451	4444	4		
	6254	10	83/01/10	0549:00	0549:23	54	57		2		
	6255	10	83/01/10	0551:41	0557:48	417	105	8503	4		
	6256	10	83/01/10	0733:29	0734:33	388	217	12916	5		
	6257	10	83/01/10	0913:08	0913:51	183	64		2		
	7995	10	83/01/10	1403:55	1404:28	66	152	2632	2		I
	6258	12	83/01/12	0828:24	0828:40	61	81		9		AX
	6259	12	83/01/12	1910:03	1910:43	80	77		2		
	7996	12	83/01/12	2356:19	2357:06	86	287	4310	3		I
	6260	15	83/01/15	0054:14	0054:30	90	86		2		
	12716	21	83/01/21	2111:31	2112:02	36	68	426	13		NS,GB
	6261	23	83/01/23	0038:46	0039:26	114	59		2		
	6262	24	83/01/24	0019:55	0020:02	59	91		3		EW
	8000	27	83/01/27	0330:21	0334:51	953	292	35906	2		I
	12717	27	83/01/27	1956:40	1956:47	23	47	198	11		NS,GB
	6263	28	83/01/28	1434:10	1434:34	41	76		2		
	6264	29	83/01/29	1646:23	1646:59	64	53		2		
	6265	31	83/01/31	0105:40	0105:59	35	73		2		
	6266	31	83/01/31	1142:26	1143:44	92	61		2		
	6267	32	83/02/01	0401:30	0401:46	39	77		2		EW

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6268	32	83/02/01	1924:43	1924:52	18	82		2		EW
8001	33	83/02/02	1359:46	1400:02	61	172	1156	2		I
6270	34	83/02/03	0550:25	0603:37	7389	46354	1.51E+07	15	4077	M5,IN,SA,IS,DG
6271	34	83/02/03	1828:23	1828:43	65	85		2		
6272	34	83/02/03	1829:49	1829:59	55	141	1377	2		
6273	34	83/02/03	1830:44	1832:16	331	359	16595	2		
8002	35	83/02/04	0053:02	0053:15	27	108	800	2		I
6275	35	83/02/04	1104:56	1106:02	131	60		2		
8003	35	83/02/04	1945:37	1946:37	179	81		2		I
8004	35	83/02/04	2250:43	2250:52	66	53		2		I
6276	36	83/02/05	0035:37	0036:41	100	64		2		
6277	36	83/02/05	0152:22	0153:44	295	186	7661	3		SA
6278	36	83/02/05	0700:22	0701:33	197	405	11369	3		
6279	36	83/02/05	1027:34	1027:42	53	60		2		
6280	36	83/02/05	1337:07	1340:19	465	81	6709	2	4077	
6281	36	83/02/05	1449:07	1450:13	102	93		5		
6282	36	83/02/05	1803:43	1805:26	126	77		2		
6283	36	83/02/05	1806:19	1807:34	172	67		3		
6284	36	83/02/05	1811:08	1812:21	121	76		3		
6285	36	83/02/05	1813:31	1814:09	104	69		2		
6286	37	83/02/06	0508:43	0509:13	60	54		2		
6287	37	83/02/06	0512:42	0513:05	62	60		2		
6288	37	83/02/06	0527:00	0528:05	147	77		2		
6289	37	83/02/06	1430:54	1431:26	64	300	6276	7		
6290	37	83/02/06	1501:38	1502:25	70	59		2		
6291	37	83/02/06	1609:25	1610:09	77	96		5		
6292	37	83/02/06	1735:54	1747:44	1025	82	6635	2		
8006	38	83/02/07	2028:03	2029:25	666	79	3042	2		I ,SG
6294	40	83/02/09	1332:07	1332:34	53	92		8		AX
6295	40	83/02/09	1506:58	1510:35	466	138	12400	8		AX
6296	41	83/02/10	1220:32	1220:46	18	144	567	13		NS,GB
6297	43	83/02/12	1316:44	1317:15	79	106	2338	5		AX
6298	45	83/02/14	0929:58	0931:16	188	68		3		AX
8008	58	83/02/27	2358:46	2358:46	80	78		2		I
6301	60	83/03/01	1046:14	1046:37	119	306	5438	3		
6302	60	83/03/01	1316:40	1317:14	199	72		2		
6303	60	83/03/01	1951:14	1951:29	54	69		2		
6304	60	83/03/01	2205:57	2207:20	136	117	2935	2		
6309	62	83/03/03	2220:00	2220:47	165	84		6		AX,EW
8009	64	83/03/05	1557:15	1557:33	22	66		2		I
6315	65	83/03/06	0209:50	0211:05	164	94		4		AX
6334	67	83/03/08	2253:10	2254:14	147	76		4		
6335	68	83/03/09	0010:21	0011:38	210	67		2		
6336	69	83/03/10	0006:23	0008:37	675	171	21026	2		
6340	71	83/03/12	2128:22	2129:31	134	72		4		AX
6341	72	83/03/13	0006:42	0007:10	73	69		4		AX
6347	73	83/03/14	2008:17	2009:09	174	69		4		
6348	73	83/03/14	2013:34	2013:54	71	57		3		
6349	73	83/03/14	2046:32	2047:38	105	52		4		
6350	73	83/03/14	2050:08	2051:01	89	64		10		
6351	73	83/03/14	2143:10	2150:36	505	71	7817	4		
6363	75	83/03/16	2158:59	2200:03	157	84		2		
6370	76	83/03/17	0223:08	0223:50	889	161	20988	2	4116	
6371	76	83/03/17	0722:18	0723:52	192	99		2		DG
6372	76	83/03/17	0900:11	0900:48	254	403	26256	2	4116	EN
6373	76	83/03/17	1333:56	1334:48	445	856	56328	4		
6374	76	83/03/17	1457:50	1458:59	131	63	836	2		
6375	77	83/03/18	0049:48	0050:40	102	106	3022	2		
6376	77	83/03/18	0152:46	0153:45	687	154	13264	2	4116	
6377	77	83/03/18	0806:45	0807:25	253	149	7328	2		EW
6368	77	83/03/18	1852:20	1853:26	183	61		2		
6369	77	83/03/18	1924:01	1924:53	201	65		3		
6378	79	83/03/20	1210:34	1210:46	31	52	245	2		
6380	80	83/03/21	2016:26	2016:51	51	65		2		
6381	80	83/03/21	2123:36	2124:16	91	62		2		
6382	81	83/03/22	0156:35	0156:49	22	62		2		
6383	82	83/03/23	0125:17	0125:53	176	70		2		
8017	82	83/03/23	1852:11	1852:46	117	1041	27819	4		I ,ND

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
8018	83	83/03/24	1538:10	1538:41	77	55		2		I
6385	84	83/03/25	0242:28	0242:53	46	63		2		EW
6386	84	83/03/25	0245:08	0247:41	480	86	6532	2		
6387	84	83/03/25	0608:08	0608:13	19	80		2		
6388	84	83/03/25	1015:40	1016:59	200	75		4		AX
6392	90	83/03/31	0025:33	0025:48	24	73	334	6		NS,GB
6393	94	83/04/04	1034:02	1034:40	126	181	4410	3		
8019	94	83/04/04	1326:30	1326:36	38	103	860	2		I
8020	94	83/04/04	1328:07	1328:14	48	111	856	2		I
8021	94	83/04/04	1642:34	1643:18	94	4052	48597	7		M5,I
8022	94	83/04/04	2002:33	2002:53	64	131	1992	2		I
8023	95	83/04/05	0426:30	0426:47	38	88		2		I
8024	95	83/04/05	1045:42	1047:45	130	63		2		I
12718	101	83/04/11	2102:13	2102:16	6	41	18			NS,GB
12719	104	83/04/14	0156:28	0156:37	48	43	293	6		NS,GB
6395	105	83/04/15	0631:29	0631:59	199	75		2		
6396	105	83/04/15	0648:40	0649:29	175	99		2		AX
6397	108	83/04/18	0125:54	0132:14	1521	731	4.29E+05	4	4150	EN
8025	108	83/04/18	2019:54	2020:12	32	65		2		I
8026	108	83/04/18	2313:00	2313:27	117	61		3		I
8027	109	83/04/19	0531:07	0531:23	46	203	2021	2		I
6398	110	83/04/20	0018:39	0019:36	311	147	5961	2		
8028	111	83/04/21	0146:25	0147:10	480	68	4521	2		I
8029	111	83/04/21	0646:18	0647:09	719	167	7112	3		I
6400	111	83/04/21	2033:10	2033:35	33	50		2		EW
6401	111	83/04/21	2052:44	2056:17	222	64		2		EW
6402	111	83/04/21	2101:35	2103:34	182	130	3187	2		EW
8030	112	83/04/22	0003:40	0004:37	117	146	2760	2		I
6403	112	83/04/22	0145:17	0145:29	29	73		2		
6404	112	83/04/22	0624:06	0624:17	25	76		2		
6408	113	83/04/23	0730:46	0730:58	31	168	735	2		
6409	113	83/04/23	0803:52	0804:09	34	60		2		
8031	113	83/04/23	1555:48	1556:25	55	57		2		I
6411	114	83/04/24	0055:02	0056:26	135	316	11321	4		FS
6410	114	83/04/24	2103:47	2105:09	163	121	4255	5		AX
8032	115	83/04/25	2110:50	2111:13	39	51		2		I
6412	116	83/04/26	0311:22	0311:44	124	180	4128	2		
8033	116	83/04/26	0810:26	0811:43	290	143	8119	2		I
6414	116	83/04/26	2336:07	2337:38	133	653	20540	5		
6415	117	83/04/27	0013:55	0014:04	25	72		2		
6416	117	83/04/27	0016:43	0016:57	45	69		4		
6417	117	83/04/27	0252:49	0254:50	349	1610	60262	10	4154	
6418	117	83/04/27	0336:28	0336:42	45	64		2		
6421	117	83/04/27	1349:19	1349:44	64	98		2	4154	
6422	117	83/04/27	1600:20	1600:43	35	66		2		
6423	118	83/04/28	0051:14	0053:33	195	204	6920	5		
6424	118	83/04/28	1048:15	1049:20	235	1579	89510	6	4157	M5
6428	120	83/04/30	0816:31	0816:37	797	645	61376	3	4154	SA
6429	120	83/04/30	2216:12	2218:46	192	156	5257	6		AX
8034	121	83/05/01	1312:04	1314:30	353	163	10833	2		I
6430	121	83/05/01	1714:38	1715:03	47	80		2		
6431	122	83/05/02	1243:17	1243:47	76	58		3		
8035	122	83/05/02	1542:36	1543:10	65	56		2		I
6432	122	83/05/02	1554:49	1558:08	283	285	7268	4		
12720	122	83/05/02	1647:06	1647:06	12	29				NS,GB
6433	122	83/05/02	1859:21	1859:36	24	85	1098	2		
6434	122	83/05/02	1905:04	1905:14	48	106	578	3		
6435	122	83/05/02	2018:21	2018:32	142	61		2		
6436	122	83/05/02	2022:29	2023:47	101	132	890	2		
6437	123	83/05/03	0111:14	0111:22	21	58		2		
6438	123	83/05/03	0113:22	0113:41	49	53		2		
6439	123	83/05/03	0432:04	0432:10	48	68		2		
6440	123	83/05/03	2138:18	2139:02	160	67		2		
8036	124	83/05/04	0544:07	0544:14	9	88		2		I
6447	125	83/05/05	0003:22	0003:55	138	88		2		
6448	125	83/05/05	0017:23	0017:23	306	121	6991	2		
6449	125	83/05/05	0023:20	0025:07	129	61		2		
6450	125	83/05/05	0515:53	0516:34	337	93	6749	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6451	125	83/05/05	1426:06	1427:08	135	76		2		
6452	125	83/05/05	1859:57	1901:10	160	937	12408	5		FS
6453	125	83/05/05	2256:25	2256:31	32	107	582	2		
8037	126	83/05/06	0128:04	0128:33	93	105	2473	2		I
6454	126	83/05/06	0318:51	0319:06	94	111	986	2		
6455	126	83/05/06	0650:58	0651:37	114	173	4173	2		
6457	126	83/05/06	2233:49	2234:48	111	52		2		
6458	127	83/05/07	0132:06	0133:05	169	85		2	4171	
6459	127	83/05/07	0743:32	0745:35	224	1634	30014	4	4171	
6460	127	83/05/07	1037:32	1037:58	64	63		2		
8038	127	83/05/07	1042:49	1044:31	417	226	16888	2		I
6461	127	83/05/07	1537:16	1537:44	112	60		2	4171	
6462	127	83/05/07	1713:57	1714:31	92	3269	17771	6	4171	M5
6463	127	83/05/07	1719:08	1719:28	111	79		2		
6464	127	83/05/07	2019:18	2019:40	57	66		2		
6465	127	83/05/07	2147:47	2148:58	81	68		2		
6466	127	83/05/07	2215:32	2218:26	209	118044	5.36E+06	15	4171	M5,ES,FS
6467	128	83/05/08	0227:22	0228:05	64	142	1345	2		
6468	128	83/05/08	0248:54	0304:41	1040	1113	3.32E+05	6	4171	ES
6469	128	83/05/08	1143:28	1143:49	178	72		3		
6470	128	83/05/08	1951:40	1952:28	125	76		2	4171	
6475	129	83/05/09	0709:36	0710:07	510	185	8050	2		SG
6477	129	83/05/09	1202:27	1203:48	171	59		2		
6478	129	83/05/09	1655:18	1655:26	44	59		2		
6479	129	83/05/09	1736:30	1737:32	161	110	2239	3	4171	
6480	129	83/05/09	2303:43	2305:36	502	20478	2.71E+06	15	4171	M5,FS
6485	130	83/05/10	1319:00	1319:05	23	85		2		
6486	130	83/05/10	1742:56	1743:04	32	118	452	5	4173	
8039	130	83/05/10	2359:54	0005:33	1104	743	70794	7		I
6487	131	83/05/11	0451:16	0451:20	9	70		2		
8040	131	83/05/11	0753:16	0753:46	80	149	2049	2		I
8041	131	83/05/11	0755:39	0757:10	186	89		2		I
6488	131	83/05/11	1357:42	1357:49	18	72		5		
8042	131	83/05/11	1418:44	1432:47	1479	195	24870	2		I
8043	131	83/05/11	1545:02	1545:15	27	64		2		I
8044	131	83/05/11	1612:37	1613:32	113	169	5749	3		I
8045	131	83/05/11	1616:07	1616:38	216	80	2715	2		I
8046	131	83/05/11	1843:13	1843:20	35	106	724	2		I
8047	131	83/05/11	2004:11	2004:35	273	110	3721	2		I
8048	131	83/05/11	2159:01	2159:53	126	72		2		I
6489	131	83/05/11	2211:54	2212:11	212	337	20086	4		SG,EG
6490	132	83/05/12	0248:06	0248:17	31	125	723	2		
6491	132	83/05/12	0252:03	0255:02	1005	11608	8.48E+05	15	4171	M5
8049	132	83/05/12	0431:05	0432:05	79	68		2		I
8050	132	83/05/12	0722:31	0723:07	55	108	1261	2		I
6492	132	83/05/12	0902:23	0902:33	22	70		2		EW
8051	132	83/05/12	1230:11	1230:48	109	71		2		I
8052	132	83/05/12	1232:52	1233:59	201	113	1939	2		I
8053	132	83/05/12	1237:05	1239:02	695	123	8824	2		I
6493	132	83/05/12	1335:19	1342:15	994	298	1.14E+05	2	4173	SG,AX
6494	132	83/05/12	1418:11	1418:43	82	156	2503	2		
6495	132	83/05/12	1519:54	1520:12	32	99		2		
6496	132	83/05/12	1637:42	1638:03	38	197	1602	4		
6497	132	83/05/12	1640:05	1640:23	36	238	1660	4		
8054	132	83/05/12	1720:32	1721:10	46	221	2205	2		I
6498	133	83/05/13	0859:41	0859:55	40	88	528	2		
6499	133	83/05/13	1021:15	1022:26	191	457	13083	4		FS
8057	134	83/05/14	0348:03	0348:47	135	75		2		I
8058	134	83/05/14	0408:35	0409:04	49	144	2122	2		I
8059	134	83/05/14	0413:17	0414:05	109	85		2		I
8060	134	83/05/14	1143:09	1143:23	37	97		2		I
8061	134	83/05/14	1602:52	1607:37	917	198	15578	3		I
6500	135	83/05/15	0929:51	0929:52	2612	385	2.57E+05	9		M5,EN,SG
6501	135	83/05/15	1101:50	1102:18	58	93		2		
6502	135	83/05/15	1118:16	1118:32	27	62		2		
6503	135	83/05/15	1119:36	1119:48	73	61		2		
6504	135	83/05/15	1123:02	1123:33	59	75		2		
6505	135	83/05/15	1129:06	1129:22	32	70		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6506	135	83/05/15	1233:03	1234:15	134	126	2762	4		
6507	135	83/05/15	1558:54	1559:02	22	64		2		
6508	135	83/05/15	1610:57	1611:23	122	82		2		
6509	135	83/05/15	1729:19	1729:35	91	176	1725	4		
8062	135	83/05/15	2202:21	2202:28	13	94		2		I
8063	136	83/05/16	0007:02	0007:22	85	99		2		I
8064	136	83/05/16	0009:18	0010:07	143	65		2		I
8065	136	83/05/16	0422:19	0423:11	145	313	7300	2		I
8066	136	83/05/16	0443:12	0443:21	52	59		2		I
6510	136	83/05/16	0603:18	0603:49	197	86		2		
6511	136	83/05/16	1126:12	1126:49	93	72		2		AX
6512	136	83/05/16	1342:16	1343:23	166	77		2		
6513	136	83/05/16	1400:03	1402:17	493	1430	1.46E+05	5		EG
8067	136	83/05/16	1652:16	1703:11	1144	181	17946	4		I ,EG
6514	137	83/05/17	1635:58	1636:20	79	70		2		
6515	138	83/05/18	1128:16	1128:33	45	56		2		
8068	138	83/05/18	1320:51	1321:14	51	229	1897	2		I
8069	138	83/05/18	1321:44	1322:54	88	111	1348	2		I
8070	138	83/05/18	1323:14	1323:53	69	84		2		I
8071	138	83/05/18	1354:24	1355:16	108	71		2		I
6516	138	83/05/18	1447:08	1448:11	279	127	6346	2		SN,AX
12721	138	83/05/18	1904:19	1904:27	25	161	481	9		NS,GB
8072	139	83/05/19	0931:26	0932:15	86	62		2		I
8073	139	83/05/19	1016:24	1016:36	48	63		2		I
6517	140	83/05/20	0138:13	0140:23	183	73		2		
6518	140	83/05/20	0646:42	0647:14	110	70		2		
6519	140	83/05/20	0652:06	0652:22	29	93		2		
6520	140	83/05/20	0755:44	0758:46	716	109	13876	2		
8074	140	83/05/20	1134:24	1134:55	46	91		2		I
6521	140	83/05/20	1353:40	1353:53	39	233	2411	4		
8075	140	83/05/20	1703:00	1703:32	84	67		2		I
6522	142	83/05/22	0911:53	0912:37	117	170	3438	2		EW
6523	142	83/05/22	1139:39	1145:12	541	118	11677	3		AX,EW
6524	142	83/05/22	1223:19	1223:42	42	94		2		EW
6525	142	83/05/22	1321:23	1322:00	134	69		2		EW
12722	142	83/05/22	2247:05	2247:06	3	77	33	15		NS,GB
6526	142	83/05/22	2319:13	2319:52	58	95		2		EW
8076	143	83/05/23	0840:12	0840:30	116	92		2		I
8077	143	83/05/23	1300:48	1300:55	44	94		2		I
6528	144	83/05/24	1601:12	1602:04	171	285	16136	5		
6529	145	83/05/25	0946:51	0952:32	593	1054	96504	10		M5
8078	145	83/05/25	2323:42	2325:28	240	291	13762	4		I
6533	148	83/05/28	0713:36	0713:49	28	70		2		
12723	148	83/05/28	1839:15	1839:18	8	51	28			NS,GB
12724	149	83/05/29	1823:16	1823:48	51	50	306	13		NS,GB
6534	150	83/05/30	0443:05	0444:14	124	148	1948	2		
8079	150	83/05/30	1340:17	1340:48	62	68		2		I
6535	151	83/05/31	0001:48	0008:12	497	78	5251	2		
6537	151	83/05/31	1246:53	1247:19	44	71		2		
6538	151	83/05/31	1454:25	1454:44	47	69		2		
6539	151	83/05/31	1458:10	1459:47	252	237	12720	2	4201	
8080	151	83/05/31	1810:10	1814:43	507	176	8754	2		I
8081	154	83/06/03	0630:52	0631:20	46	72		2		I
8082	154	83/06/03	0639:53	0640:21	77	71		2		I
8083	154	83/06/03	1003:08	1003:33	41	70		2		I
8084	154	83/06/03	1004:11	1006:28	193	69		2		I
6543	154	83/06/03	1142:26	1142:48	252	396	17567	4		FS
6544	154	83/06/03	1405:27	1405:38	16	77		2		
8085	154	83/06/03	2342:12	2343:02	84	86		2		I
8086	155	83/06/04	0615:03	0615:21	45	117	702	2		I
8087	155	83/06/04	1954:20	1955:55	381	413	16328	2		I
6545	155	83/06/04	2147:09	2147:44	70	106	1412	2		
8088	156	83/06/05	0051:14	0051:34	75	90		2		I ,SG
6546	156	83/06/05	1105:25	1105:40	39	116	572	2		
6547	156	83/06/05	1227:58	1228:16	33	90		2		
6548	156	83/06/05	1412:57	1413:12	81	79		2		
8089	156	83/06/05	1536:22	1540:12	1196	115	16823	2		I ,SA
8090	156	83/06/05	1802:13	1802:33	56	203	2164	3		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
8091	156	83/06/05	1814:36	1814:42	62	73		2		I
6549	156	83/06/05	1935:19	1939:57	591	91	5329	2	4201	EW
6550	156	83/06/05	1958:42	1959:15	63	93		2		EW
8092	156	83/06/05	2123:19	2123:48	78	67		2		I
8093	156	83/06/05	2127:31	2128:39	90	73		2		I
8094	156	83/06/05	2246:59	2247:35	180	87		2		I
6551	157	83/06/06	0036:16	0036:34	42	93		2		
6552	157	83/06/06	0355:23	0356:12	90	75		2		
6553	157	83/06/06	0400:25	0400:49	91	76		2		
6554	157	83/06/06	0423:43	0424:41	510	278	23136	2		
6555	157	83/06/06	0512:14	0516:03	263	333	14280	2		
6556	157	83/06/06	0524:59	0526:23	149	81		2		
6557	157	83/06/06	0533:44	0535:05	168	93		2		ND
6558	157	83/06/06	0545:34	0546:33	281	323	17880	3	4201	
6559	157	83/06/06	0604:43	0604:50	21	83		2		
8095	157	83/06/06	1039:32	1039:58	50	70		2		I
6560	157	83/06/06	1336:15	1340:50	4231	5806	3.06E+06	5	4201	M5,IN,SA,ES
6561	157	83/06/06	1518:52	1519:35	50	166	2719	2		
8096	157	83/06/06	1742:47	1743:01	302	640	21567	4		I
8097	157	83/06/06	1802:06	1802:30	49	184	2056	2		I
8098	157	83/06/06	1804:58	1805:03	14	145	396	2		I
6562	157	83/06/06	2059:22	2059:29	17	104	594	2		
6563	157	83/06/06	2120:18	2120:19	13	72		2		
6564	157	83/06/06	2126:36	2128:21	215	127	6587	2		
8099	157	83/06/06	2309:23	2309:27	16	139	961	2		I
8100	157	83/06/06	2322:56	2323:08	29	83		2		I
8101	158	83/06/07	0024:07	0024:22	65	89		2		I ,SG
6565	158	83/06/07	0055:58	0056:28	50	75		2		
6566	158	83/06/07	0227:02	0227:21	202	104	2432	2		
6567	158	83/06/07	0235:19	0236:56	169	87		5		AX
6568	158	83/06/07	0405:17	0405:26	22	126	638	2		
6569	158	83/06/07	0837:05	0837:36	63	75		2		
6573	158	83/06/07	0853:45	0854:15	39	68		2		
8102	158	83/06/07	1412:16	1412:42	44	58		2		I
6579	158	83/06/07	2038:59	2040:12	177	139	6702	2		
6580	158	83/06/07	2051:28	2056:46	708	146	17953	2	4201	
6581	158	83/06/07	2108:20	2109:34	107	82		2		
6582	159	83/06/08	0449:41	0449:50	69	68		2		
8103	159	83/06/08	1258:58	1303:38	438	249	13978	2		I
8104	159	83/06/08	1530:01	1530:08	18	73		2		I
8105	160	83/06/09	2033:48	2034:07	50	81		2		I
6588	160	83/06/09	2128:29	2130:06	216	426	26365	8		
6589	160	83/06/09	2158:07	2158:34	420	1046	76356	7	4204	M5,FS
6590	160	83/06/09	2349:13	2350:09	117	108	2641	5		
8106	161	83/06/10	0212:08	0212:55	76	141	1894	2		I
8107	161	83/06/10	0611:06	0612:59	147	75		2		I
8108	161	83/06/10	2107:45	2108:19	63	53		4		I
8109	161	83/06/10	2116:44	2117:13	115	70		2		I
6711	162	83/06/11	0219:05	0219:27	42	80		2		I
8110	162	83/06/11	0651:22	0653:38	354	102	5402	2		I ,SA
6591	162	83/06/11	1813:31	1813:45	34	70		2		
6592	162	83/06/11	2303:26	2304:09	192	101	3750	5		
6593	163	83/06/12	0002:44	0003:04	31	91		2		
6594	163	83/06/12	2201:09	2203:09	616	104	12815	4		AX
6595	163	83/06/12	2229:24	2230:08	83	63		2		
6596	163	83/06/12	2244:45	2245:58	165	77		2		
6597	164	83/06/13	0023:25	0024:19	165	82		2		
6598	164	83/06/13	0127:28	0127:39	83	73		2		
6599	164	83/06/13	0311:38	0317:33	387	186	7201	3		
6600	164	83/06/13	0606:30	0606:31	281	106	4983	2		
6601	164	83/06/13	0620:46	0622:17	121	95		2		
6602	164	83/06/13	0626:33	0626:44	30	82		2		
6603	164	83/06/13	1529:33	1529:57	64	156	2379	2		
6604	164	83/06/13	1710:37	1710:55	39	110	789	2		
6605	164	83/06/13	2335:47	2336:17	61	67		2		
6606	164	83/06/13	2338:09	2338:31	52	62		2		
6607	164	83/06/13	2339:25	2339:34	72	77		2		
6608	165	83/06/14	0434:31	0434:53	74	118	1316	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6609	165	83/06/14	1644:15	1646:18	171	165	3526	2		
6610	165	83/06/14	1658:10	1658:15	34	70		2		
6611	165	83/06/14	1659:11	1659:52	105	76		2		
6612	166	83/06/15	2239:30	2241:24	172	298	13722	8		AX
6613	167	83/06/16	1007:54	1009:57	200	79		2		
6614	167	83/06/16	1342:47	1343:04	48	67		2		
6615	167	83/06/16	1447:16	1447:55	114	72		2		
6618	168	83/06/17	1729:36	1731:51	181	65		2		
6616	168	83/06/17	1757:53	1757:59	25	87		5		
8111	169	83/06/18	0623:35	0623:50	55	69		2		I
6619	169	83/06/18	1647:25	1649:32	183	67		3		EG
6620	170	83/06/19	2338:19	2338:35	188	134	446	2	4213	
8112	171	83/06/20	0024:54	0025:31	48	83		2		I
8113	171	83/06/20	0343:19	0343:53	40	97		2		I
6621	171	83/06/20	1800:43	1802:23	128	75		2		
8114	172	83/06/21	0202:19	0202:35	206	197	4474	2		I
8115	172	83/06/21	1140:38	1140:43	100	235	2430	11		I ,NS,GB
8116	172	83/06/21	1236:28	1236:52	42	63		2		I
8117	172	83/06/21	1237:38	1238:01	57	100		2		I
8118	172	83/06/21	1239:13	1239:54	120	74		2		I
6622	172	83/06/21	1600:38	1601:44	121	242	3795	2		
8119	173	83/06/22	0023:03	0023:12	16	139	621	2		I
8120	173	83/06/22	0033:14	0033:30	41	75		2		I
8121	173	83/06/22	0035:19	0035:57	59	60		2		I
8122	173	83/06/22	1841:54	1842:30	85	86		2		I
8123	173	83/06/22	2126:49	2127:21	54	81		2		I
8124	173	83/06/22	2148:21	2148:37	64	70		2		I ,SG
8125	174	83/06/23	2153:56	2154:31	80	92		2		I
6624	176	83/06/25	2049:00	2051:50	605	1614	2.81E+05	10	4227	FS
6625	177	83/06/26	0444:12	0444:40	601	223	50457	2		AX,EW
6626	177	83/06/26	1405:52	1408:19	1026	2387	3.74E+05	10	4227	EW
6627	177	83/06/26	2352:02	2352:54	67	70		2		EW
6628	179	83/06/28	0129:37	0130:55	173	150	6432	2		
6629	179	83/06/28	0249:48	0251:56	276	310	23999	4	4227	
8127	179	83/06/28	1328:43	1328:51	21	70		2		I
6630	179	83/06/28	1514:59	1516:12	108	83		3		
6632	180	83/06/29	1528:30	1530:51	205	69		2		
6633	180	83/06/29	1945:04	1946:34	115	61		2		
6634	180	83/06/29	2230:00	2230:52	1186	239	44450	3	4214	SN
6635	181	83/06/30	1430:14	1431:29	125	73		2		
8128	182	83/07/01	0450:08	0450:24	36	73		2		I
8129	182	83/07/01	0809:41	0809:44	15	77		2		I
8130	182	83/07/01	0825:05	0825:20	89	72		2		I
8131	182	83/07/01	0912:32	0913:39	139	116	1264	2		I
6637	182	83/07/01	1127:19	1127:29	25	79		2		
6638	184	83/07/03	0130:24	0130:45	59	73		2		
6639	184	83/07/03	0915:52	0916:48	85	88		2		
6640	190	83/07/09	1032:33	1033:00	93	66		4		
6641	190	83/07/09	1246:38	1248:09	196	81		4		
6642	191	83/07/10	0805:42	0806:41	153	64		2		
6643	191	83/07/10	1545:07	1545:16	34	73		2		
6644	191	83/07/10	1841:12	1841:54	699	190	13324	2	4235	
6646	194	83/07/13	0722:23	0723:14	176	568	14017	3		
6647	194	83/07/13	1451:16	1451:45	120	60		2		
6645	194	83/07/13	1813:42	1814:31	79	60		2		
6648	195	83/07/14	0322:10	0322:23	28	132	988	2		
6649	195	83/07/14	0751:42	0751:47	14	63		2		
6650	195	83/07/14	1556:07	1556:23	37	56		2		
6651	204	83/07/23	1935:47	1936:12	35	77		2		
6652	205	83/07/24	0954:00	0954:26	69	71		2		
6653	205	83/07/24	1151:35	1151:57	40	107	585	2		
6654	205	83/07/24	1407:53	1411:03	200	96		3		ES,AX
6655	205	83/07/24	1458:02	1459:06	101	55		2		
6656	205	83/07/24	2153:39	2153:59	528	379	44137	5		SN
6657	207	83/07/26	1145:28	1146:02	52	156	5000	2		SN,ES,EW
8135	208	83/07/27	1928:25	1928:31	14	56		2		I
6658	208	83/07/27	2230:23	2232:01	624	120	19315	5		EW
6659	208	83/07/27	2313:18	2314:00	195	80		5		ND,EW

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
6660	209	83/07/28	0022:52	0023:07	26	327	1495	3		EW
6661	209	83/07/28	0142:01	0142:12	32	76		2		EW
6662	209	83/07/28	0220:57	0222:51	224	73		2		EW
6663	209	83/07/28	0513:34	0513:54	165	61		2		EW
6664	210	83/07/29	2104:07	2104:31	39	67		3		
6665	210	83/07/29	2107:21	2108:06	80	92		3		
6666	211	83/07/30	1509:55	1515:27	540	417	42115	5	4269	
6667	211	83/07/30	1824:31	1824:35	13	88		2		
6668	211	83/07/30	1825:32	1825:45	45	202	1440	3		
6669	211	83/07/30	1826:58	1827:00	33	149	732	2		
6670	211	83/07/30	1910:13	1910:35	40	89		2		
6671	211	83/07/30	2151:37	2154:34	442	120	8342	3		
6672	212	83/07/31	0214:15	0215:17	130	316	3891	3		
6673	212	83/07/31	2026:47	2026:58	18	76		2		
6674	212	83/07/31	2153:09	2153:57	174	135	5005	2		
6675	213	83/08/01	0328:18	0329:42	1495	480	1.76E+05	3	4263	
6676	213	83/08/01	1955:15	1955:46	57	65		2		
6677	213	83/08/01	2304:55	2305:43	175	92		2		AX
6678	214	83/08/02	1859:35	1900:06	81	1028	8621	7		
6679	214	83/08/02	2340:21	2344:33	627	270	23632	3	4263	
6680	214	83/08/02	2359:07	2359:46	381	284	11654	5		
6681	215	83/08/03	1517:29	1517:52	200	75		2		SN
6682	215	83/08/03	2208:01	2208:12	68	71		2		
6683	216	83/08/04	1540:27	1542:50	195	73		2		
6684	218	83/08/06	2042:42	2043:09	129	85		2		
8156	219	83/08/07	0648:54	0649:17	51	81		2		I
8157	219	83/08/07	0652:03	0653:11	439	464	24154	4		I
6685	219	83/08/07	1237:41	1238:24	92	61		2		
6686	219	83/08/07	1242:22	1242:30	40	55		2		
8165	219	83/08/07	2153:36	2157:28	1457	591	58855	5		I
8171	220	83/08/08	0248:57	0254:45	2042	2843	4.36E+05	6		I ,DG
8172	220	83/08/08	0409:13	0411:57	546	118	9994	2		I ,SA
8173	220	83/08/08	0439:38	0444:38	454	88	6762	2		I
6687	220	83/08/08	0946:50	0947:00	45	53		2		
8183	220	83/08/08	2314:41	2315:10	80	108	936	3		I
8184	220	83/08/08	2316:29	2316:59	63	180	3225	3		I
8185	222	83/08/10	0543:56	0544:16	37	67		2		I
6688	222	83/08/10	1203:24	1204:09	49	372	3570	5		
6689	222	83/08/10	1621:58	1622:16	115	140	1426	3		EW
8186	222	83/08/10	2239:03	2239:14	27	48		2		I
8187	222	83/08/10	2304:24	2306:00	286	111	4509	2		I
8192	226	83/08/14	0723:36	0724:10	84	113	2028	2		I
6690	226	83/08/14	1453:44	1454:56	116	77		5		
6691	226	83/08/14	1632:35	1632:43	25	55		2		
6692	226	83/08/14	1639:04	1641:36	1194	1976	1.18E+05	5	4279	M5
6693	227	83/08/15	0043:37	0044:01	112	67		2		
6694	227	83/08/15	0228:43	0229:54	126	82		2		
8193	227	83/08/15	0829:46	0829:51	72	59		2		I
8194	227	83/08/15	0937:16	0937:52	467	1444	61699	5		M5,I
6695	228	83/08/16	0018:05	0019:43	137	62		2		
6696	228	83/08/16	0819:14	0820:06	160	69		2		
6697	228	83/08/16	1401:16	1401:32	43	59		2		
6698	228	83/08/16	1408:36	1409:08	103	60		3		AX
6699	228	83/08/16	1555:45	1557:09	243	126	7031	2		
6700	228	83/08/16	2220:04	2221:03	196	65		2		
8195	229	83/08/17	0233:09	0233:25	252	169	8615	2		I
6701	230	83/08/18	1015:12	1015:57	117	82		2		ND
8205	230	83/08/18	1101:24	1101:40	117	169		3		I ,EN
6702	230	83/08/18	1510:54	1511:51	64	58		2		
6703	230	83/08/18	1512:54	1513:17	34	60		2		
6704	231	83/08/19	2233:12	2233:52	150	81		2		ND
6705	231	83/08/19	2239:38	2241:24	199	74		2		
8214	232	83/08/20	0508:41	0513:34	587	81	7891	2		I
8215	233	83/08/21	1219:48	1220:48	80	59		3		I
8216	234	83/08/22	1018:56	1019:03	61	128	1307	5		I
6706	235	83/08/23	0732:31	0735:45	376	70	3841	2		AX
6707	235	83/08/23	2321:54	2322:32	41	176	1644	2	4284	SA
6708	239	83/08/27	0743:11	0744:02	144	104	4293	2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	12725	241	83/08/29	0546:44	0546:46	4	45	25	7		NS,GB
	8227	246	83/09/03	2233:57	2235:08	124	62		2		I
	6709	248	83/09/05	2004:19	2005:33	130	953	25241	5		
*	6710	259	83/09/16	0140:58	0143:02	181	185	9502	3		AX,ND
	8228	259	83/09/16	1153:14	1153:40	66	216		3		I
	8229	259	83/09/16	2209:31	2210:33	242	84	4163	3		I
	8230	260	83/09/17	0117:32	0118:20	116	54		2		I
	6712	263	83/09/20	1615:19	1615:29	27	64		2		
	6713	265	83/09/22	0113:00	0113:14	37	54		2		
	6714	265	83/09/22	0114:21	0115:18	82	62		2		
	6715	265	83/09/22	0305:38	0305:46	23	83		2		
	8233	277	83/10/04	1332:16	1332:31	40	65		2		I
	8234	277	83/10/04	1545:56	1558:33	1284	489	1.65E+05	9		M5,I
	6716	277	83/10/04	1905:35	1908:47	228	156	10506	4		AX
	8235	279	83/10/06	1116:27	1117:21	80	59		2		I
	6717	281	83/10/08	0145:37	0145:52	23	3499	1657	3	4328	
	8236	281	83/10/08	2357:44	2357:48	37	69		2		I
	6718	282	83/10/09	0207:41	0207:54	36	75		2		EW
	8237	282	83/10/09	1141:22	1141:53	179	1067	26676	4		I
	6719	283	83/10/10	0811:41	0812:14	172	135	5270	2		EW
	8238	283	83/10/10	1047:09	1047:32	64	71		2		I
	6720	284	83/10/11	2324:49	2325:40	197	74		2		
	8241	286	83/10/13	0622:15	0625:23	676	143	6574	2		I
	8242	286	83/10/13	0635:13	0635:21	97	55		2		I
	6723	287	83/10/14	0903:24	0906:18	416	140	14992	2	4335	
	6726	291	83/10/18	0143:48	0144:58	197	97		2		
	8243	291	83/10/18	0738:07	0738:29	72	73		2		I
	8244	291	83/10/18	2029:33	2029:57	68	54		2		I
	6734	292	83/10/19	0456:27	0457:14	58	128	1374	4		
	6736	292	83/10/19	0929:09	0929:53	75	97		2		
	6739	292	83/10/19	1958:12	2009:15	1878	974	3.01E+05	5		M5,SG
	6740	293	83/10/20	0542:44	0543:21	92	69		2		
	6756	303	83/10/30	1928:58	1930:05	158	74		2		
	6762	304	83/10/31	1613:19	1616:18	379	208	12959	2		EW
	6769	311	83/11/07	2001:45	2002:21	521	75		2		
	6770	317	83/11/13	1603:36	1604:11	90	63		4		
	6771	317	83/11/13	1929:30	1929:40	75	58		4		EW
	6772	318	83/11/14	1541:13	1541:50	131	65		4		
	6773	319	83/11/15	2008:10	2008:56	181	74		5		SG,ND
	12726	320	83/11/16	0834:38	0834:39	4	243	317	5		NS,GB
	6774	324	83/11/20	1143:36	1143:54	143	1046	13400	15		FS,NS,GB
	12727	348	83/12/14	0017:49	0017:49	2	1043	1010			NS,GB
	6785	349	83/12/15	1959:35	2000:43	168	84		4		
	8248	354	83/12/20	1941:50	1942:52	117	70		2		I
	8249	354	83/12/20	2111:20	2111:46	175	76		2		I
	8250	354	83/12/20	2117:48	2118:58	149	72		3		I
	7223	358	83/12/24	1943:45	1944:14	147	63		3		SG
	6791	364	83/12/30	1804:29	1806:05	367	101	8505	8		AX
	6792	2	84/01/02	1514:58	1515:50	103	83		4		EW
	2201	4	84/01/04	1108:34	1108:36	14	69		2		I
	6793	4	84/01/04	1246:31	1247:08	74	74	793	2		
	6794	5	84/01/05	1222:59	1225:00	168	128	6569	5		
	6795	24	84/01/24	0408:40	0409:37	131	114	3438	2	4399	
	6796	25	84/01/25	0247:38	0249:01	161	66	6375	2	4396	
	6797	26	84/01/26	0049:01	0049:01	195	95		2	4398	SG
	6798	28	84/01/28	2343:15	2343:48	76	60	524	2	4391	
	6319	29	84/01/29	0728:57	0729:10	41	60		2		I
	6799	29	84/01/29	2238:21	2238:28	158	82	2056	2	4399	SG
	6800	29	84/01/29	2241:25	2243:22	170	73	2365	2	4399	
	6801	31	84/01/31	0034:57	0036:35	166	84	3039	5		AX,EW
	6802	32	84/02/01	0011:30	0012:40	172	65	1480	4		
	6803	33	84/02/02	0258:56	0259:39	88	103	1773	2	4399	
	6804	33	84/02/02	1839:53	1840:52	210	377	20220	2	4398	
	6805	34	84/02/03	1818:15	1818:34	32	79	606	2		
	6806	34	84/02/03	2257:02	2257:59	342	78	4190	3		SG
	6807	35	84/02/04	2233:26	2235:02	342	345	28290	5		SG
	6808	36	84/02/05	2209:43	2210:41	197	92	3910	4		SG
	6809	37	84/02/06	2146:06	2146:21	53	61	538	3		SG,EW

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	6810	39	84/02/08	1600:53	1603:43	180	91	2185	2	4411	
	2463	42	84/02/11	2121:12	2121:21	27	73		2		I
	6542	42	84/02/11	2123:42	2123:48	20	62		2		I
	6811	49	84/02/18	1713:20	1713:52	159	84	129	2		
	6812	50	84/02/19	0239:06	0244:12	743	158	25760	2	4421	
	6813	50	84/02/19	2114:02	2114:30	36	89	624	2		
	6814	51	84/02/20	0031:35	0034:27	277	152	6999	2	4421	
	6815	51	84/02/20	1311:20	1312:15	128	74	1567	2	4421	
	6816	51	84/02/20	1600:56	1602:15	122	121	1966	2		
	6817	51	84/02/20	1924:57	1925:20	70	141	1897	2	4421	
	6818	52	84/02/21	0642:33	0642:57	74	77	831	2		
	6819	52	84/02/21	0644:59	0645:13	44	82	340	2		
	6820	52	84/02/21	0751:45	0752:02	65	68	726	2	4421	
	6821	52	84/02/21	0800:26	0800:59	70	397	4485	4	4421	
	7107	52	84/02/21	1440:18	1440:32	44	127	884	2		I
	6822	52	84/02/21	2332:36	2333:04	80	70	485	2	4421	
	6823	53	84/02/22	0810:13	0812:43	193	82	1501	2	4420	DG
	6824	53	84/02/22	1213:26	1213:34	32	75	231	2		
	6825	55	84/02/24	0642:29	0643:40	184	76	3220	2	4421	
	6826	59	84/02/28	1305:03	1306:26	148	87	1839	2	4423	
	6827	61	84/03/01	2014:11	2014:52	162	70	2028	2		
	6851	76	84/03/16	0905:30	0905:43	249	453	1.24E+05	2	4441	SG
	4811	76	84/03/16	2139:36	2140:04	52	67		2		I
	6855	79	84/03/19	0145:52	0146:18	39	210	1321	4	4438	M5
	4420	79	84/03/19	2339:23	2341:20	199	57		2		I
	6857	80	84/03/20	0408:12	0408:23	55	165	891	7	4441	
	6865	82	84/03/22	1607:05	1611:29	374	166	8320	4	4450	DG
	6870	89	84/03/29	1621:00	1621:16	37	75		2	4458	
	6877	91	84/03/31	0806:29	0808:02	134	476	7247	5	4458	
	6882	94	84/04/03	1557:38	1557:50	136	73	482	2	4458	
	6885	95	84/04/04	1530:48	1531:12	58	62	496	5		
*	6890	106	84/04/15	0926:00	0927:10	150	78	2050	4		AX
*	8007	108	84/04/17	0928:50	0929:33	357	154	11364	2	4469	I
*	12728	108	84/04/17	2237:24	2237:27	5	60				NS,GB
*	6891	109	84/04/18	1216:03	1218:00	671	690	50781	7	4469	M5
*	6892	110	84/04/19	0155:54	0157:26	329	410	27374	4	4469	
*	6894	111	84/04/20	0149:52	0150:40	98	70		2	4469	EG,ND
*	6897	111	84/04/20	1312:27	1313:47	86	78	711	2	4469	
*	6898	111	84/04/20	1402:08	1404:59	262	122	5713	4	4469	
*	6899	111	84/04/20	1533:46	1539:25	807	109	12413	2		
*	6900	111	84/04/20	1659:52	1701:02	1391	193	50508	2	4474	SN
*	6901	111	84/04/20	2143:20	2152:03	759	104	6516	2		
*	6902	111	84/04/20	2205:15	2206:20	173	59		2		DG
*	6903	111	84/04/20	2209:42	2210:46	92	65		2		
*	6904	111	84/04/20	2327:48	2338:57	2898	246	59792	2	4471	M5
*	6905	112	84/04/21	0103:31	0103:52	69	58		2		
*	6906	112	84/04/21	0106:37	0106:45	35	60		2	4471	
*	6907	112	84/04/21	0135:15	0137:31	205	64		2		
*	6908	112	84/04/21	0142:14	0143:25	304	128	7233	2	4474	
*	6909	112	84/04/21	0149:13	0151:08	121	70		2		
*	6910	112	84/04/21	0151:55	0153:05	91	77		2		
*	6911	112	84/04/21	0242:00	0243:30	1603	171	44216	3	4471	
*	6912	112	84/04/21	0315:50	0316:45	185	133	3319	2		
*	6913	112	84/04/21	0454:15	0455:19	114	67		2		
*	6914	112	84/04/21	0540:08	0541:33	101	69		2		
*	6915	112	84/04/21	0556:30	0556:51	97	59		2		
*	6916	112	84/04/21	0725:46	0727:22	426	1600	61431	8	4474	
	4812	112	84/04/21	0936:32	0937:27	108	163	4308	2		I
*	6917	112	84/04/21	1022:17	1029:08	413	192	9535	2		
	4875	112	84/04/21	1156:35	1157:46	449	149	6514	2		I
*	6918	113	84/04/22	0130:36	0130:50	40	141	2038	3	4474	
*	6919	113	84/04/22	0231:35	0233:01	183	487	12849	3		
*	6920	113	84/04/22	0236:08	0236:19	35	62		2		
*	6921	113	84/04/22	0240:22	0240:31	29	66		2		
*	6922	113	84/04/22	0258:54	0259:23	59	134	1706	5	4472	
*	6923	113	84/04/22	0350:26	0350:35	53	66		2		
*	6924	113	84/04/22	0351:23	0352:01	84	60		2		
*	6925	113	84/04/22	0353:02	0354:19	166	221	2732	3	4474	

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	6926	113	84/04/22	0356:54	0357:03	18	87		2		
*	6927	113	84/04/22	0400:26	0402:04	151	111	2941	3		
*	6928	113	84/04/22	0406:18	0406:32	41	84		2		
*	6929	113	84/04/22	0426:07	0427:19	96	107	2262	2	4468	
*	6930	113	84/04/22	0529:38	0529:55	52	61		2	4468	
*	6931	113	84/04/22	0538:52	0539:07	32	59		2		
*	6932	113	84/04/22	0546:28	0546:38	21	64		2	4474	
*	6933	113	84/04/22	0547:34	0547:46	42	60		2		
*	6934	113	84/04/22	0650:47	0651:47	164	60		2	4472	
*	6935	113	84/04/22	0704:02	0705:04	143	117	2075	3	4474	
*	6936	113	84/04/22	0712:50	0713:18	87	78		2		
*	6937	113	84/04/22	0719:16	0719:43	44	81		2		
*	6938	113	84/04/22	1309:38	1310:14	85	88		2	4474	
*	6939	113	84/04/22	1400:03	1400:58	288	1503	35717	6	4468	M5,FS
*	6940	113	84/04/22	1444:25	1444:43	51	76		2		
*	6941	113	84/04/22	1712:45	1712:52	21	91	252	2		
*	6946	115	84/04/24	1725:37	1727:20	366	8974	1.69E+05	8	4474	M5,ES,FS
*	6947	115	84/04/24	1802:35	1802:42	26	78	215	2		
*	6948	115	84/04/24	1804:13	1804:17	50	124	462	2	4474	
*	6949	115	84/04/24	1906:57	1907:13	168	90	717	2	4474	
*	6950	115	84/04/24	2014:07	2019:04	622	1030	1.45E+05	6	4474	M5,FS
*	6951	115	84/04/24	2156:08	2157:01	91	74		2	4474	
*	6952	115	84/04/24	2214:45	2215:12	123	92	1361	2		
*	6953	115	84/04/24	2245:29	2245:40	41	79	461	2	4474	
*	6954	115	84/04/24	2329:29	2330:48	148	62	966	2		
*	6955	115	84/04/24	2352:13	0001:07	13287	231300	1.49E+08	15	4474	M5,EN,IN
*	6956	116	84/04/25	0452:39	0452:57	55	71	479	2		
*	6957	116	84/04/25	0600:09	0601:58	480	471	20763	7	4474	
*	6958	116	84/04/25	0613:58	0614:29	54	92	1037	5		
*	6959	116	84/04/25	1101:38	1105:53	397	119	5604	4	4474	
*	6961	116	84/04/25	2048:25	2048:51	54	62	317	2		
*	6962	116	84/04/25	2142:53	2143:41	73	68	296	2		
*	6963	116	84/04/25	2307:57	2308:59	200	96	2410	2	4474	
*	6964	116	84/04/25	2331:08	2334:07	310	113	4123	4		
*	6965	116	84/04/25	2339:08	2340:50	160	72	1621	2		
*	6966	117	84/04/26	0038:45	0047:35	834	903	1.42E+05	9	4474	
*	6967	117	84/04/26	0117:38	0117:57	50	89		2	4474	
*	6968	117	84/04/26	0121:07	0121:45	63	69	221	2		
*	6969	117	84/04/26	0220:40	0220:53	22	311	1759	5	4474	
	7453	117	84/04/26	0531:44	0533:12	128	98		2		I
	7454	117	84/04/26	0538:23	0538:49	139	123	2847	2	4474	I
	7491	117	84/04/26	0724:12	0725:49	174	91		2	4472	I
*	6970	117	84/04/26	0857:07	0903:38	698	3117	4.82E+05	10	4474	M5,SN,FS
*	6971	117	84/04/26	1312:28	1312:29	153	77	1134	2	4474	
*	6972	117	84/04/26	1810:33	1811:25	77	63		2	4472	
*	6973	117	84/04/26	1845:26	1846:08	86	89		2		
*	6974	118	84/04/27	0013:47	0014:15	116	54		2	4474	
*	6975	118	84/04/27	0026:56	0027:44	135	82		5		
*	6977	118	84/04/27	0533:42	0535:08	221	553	14566	7		
*	6978	118	84/04/27	0537:56	0539:48	334	2624	1.59E+05	8	4474	M5,FS
*	6976	118	84/04/27	0726:56	0728:37	195	88		2	4474	
*	6979	118	84/04/27	1423:37	1427:35	578	86	4344	2	4474	SN
*	6980	118	84/04/27	1648:36	1653:23	615	102	10049	2	4474	EN
*	6981	118	84/04/27	2045:59	2046:06	23	64		2		
*	6982	118	84/04/27	2049:14	2050:01	104	57		2		
*	6983	118	84/04/27	2224:24	2224:52	48	103	1229	7	4474	
*	6984	118	84/04/27	2225:43	2226:38	97	75		7		
*	6985	119	84/04/28	0437:17	0442:05	645	1128	24035	10	4474	
*	6986	119	84/04/28	0628:47	0631:37	222	120	3470	3	4474	
*	6987	119	84/04/28	0657:32	0658:39	150	62		2	4474	
*	6988	119	84/04/28	1459:34	1459:50	53	65		2	4474	
*	6989	119	84/04/28	2056:35	2056:50	102	85		2	4474	
*	6990	119	84/04/28	2155:01	2155:50	86	438	3341	4		
*	6991	119	84/04/28	2200:39	2201:02	43	94		2		
*	6992	119	84/04/28	2204:20	2205:00	200	81		6		
	7865	120	84/04/29	0009:43	0010:18	104	69	1186	2		I
*	6993	120	84/04/29	0013:14	0014:34	144	82		3	4474	
	7952	120	84/04/29	0026:01	0026:09	51	146	616	2		I

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	6994	120	84/04/29	0243:05	0243:12	22	73		2		
*	6995	120	84/04/29	0244:53	0245:05	31	506	3101	4		FS
*	6996	120	84/04/29	0246:26	0246:49	58	333	2747	2		
*	6997	120	84/04/29	0248:34	0248:49	28	68		2		
*	6998	120	84/04/29	0249:20	0249:46	126	1161	21606	5		
*	6999	120	84/04/29	0411:36	0412:21	134	120	2849	2		
*	7000	120	84/04/29	0430:26	0430:33	17	101	214	2		
*	7001	120	84/04/29	0434:11	0434:22	28	68		2		
*	7002	120	84/04/29	0447:59	0448:09	28	77		2		
*	7003	120	84/04/29	0451:45	0451:55	20	396	1403	4		
*	7004	120	84/04/29	0604:19	0605:53	124	190	4766	3	4474	
*	7005	120	84/04/29	0643:38	0644:15	46	81		2		
*	7006	120	84/04/29	0749:09	0749:40	59	69		2		
	8297	120	84/04/29	1126:55	1128:32	252	65	536	2	4474	I ,EN
*	7007	120	84/04/29	1432:34	1433:34	226	1200	47163	5	4474	
	8298	120	84/04/29	1736:54	1737:03	20	668	2231	6	4476	I
	8299	120	84/04/29	1826:23	1826:30	70	1552	10429	6	4474	M ,I
	8300	120	84/04/29	1852:41	1852:59	103	300	4485	3	4474	I
*	7008	120	84/04/29	2054:19	2054:27	20	57	164	2		
	8301	120	84/04/29	2136:36	2138:02	385	616	57334	15		I
	8302	120	84/04/29	2312:19	2318:40	571	126	10617	3	4474	I
	8303	120	84/04/29	2347:15	2351:31	1118	55	3369	2		I ,EN
*	7009	120	84/04/29	2357:29	2358:24	85	62	385	2		
*	7010	121	84/04/30	0043:26	0044:33	122	76	371	2	4474	
*	7011	121	84/04/30	0227:26	0227:36	92	76	333	2		
*	7012	121	84/04/30	0547:06	0547:25	141	65	1104	2		
*	7013	121	84/04/30	0555:54	0557:08	94	72	476	2	4474	
	8304	121	84/04/30	0618:39	0622:30	274	73	2196	2	4474	I
*	7014	121	84/04/30	1051:14	1051:37	102	65	480	2	4474	
*	7015	121	84/04/30	1542:40	1544:05	104	149	2430	3	4474	
*	7016	121	84/04/30	2018:06	2018:31	80	117	1691	5		
*	7017	121	84/04/30	2109:03	2109:36	133	193	2558	3	4474	
*	7018	121	84/04/30	2147:03	2147:09	36	64	355	2	4474	
*	7019	121	84/04/30	2249:42	2253:15	499	115	10686	7	4474	AX
*	7020	122	84/05/01	0019:49	0022:05	178	76	928	2		
*	7021	122	84/05/01	0023:28	0024:02	78	65	616	2		
*	7022	122	84/05/01	0029:15	0030:22	136	89	1010	2		
*	7023	122	84/05/01	0045:49	0046:44	122	124	3238	2		
*	7024	122	84/05/01	0102:50	0112:46	842	208	48594	5	4474	
*	7025	122	84/05/01	1800:26	1800:54	54	203	1735	4	4474	
*	7026	122	84/05/01	1947:51	1948:05	32	61	174	2		
*	7027	123	84/05/02	1614:15	1614:16	179	97	2775	2	4474	
*	7028	123	84/05/02	1913:13	1920:28	2034	2457	8.06E+05	10	4474	M ,EN
*	7029	123	84/05/02	2241:49	2242:20	41	70		3	4474	
*	7030	124	84/05/03	0023:14	0023:44	107	76		4		
*	7031	124	84/05/03	0115:20	0115:51	105	76		4		
*	7032	124	84/05/03	0141:51	0141:58	20	71		2		
*	7033	124	84/05/03	0244:24	0244:39	171	76		2		
*	7034	124	84/05/03	0312:24	0317:06	715	340	22362	3	4474	
*	7035	124	84/05/03	0328:05	0328:28	30	63		2		
	8306	124	84/05/03	2133:41	2134:39	725	705	46296	10		I ,EN
	7036	124	84/05/03	2218:36	2219:19	142	79	1378	9		AX
	7037	124	84/05/03	2310:54	2312:15	469	97	6994	6		AX
	7038	124	84/05/03	2358:13	2359:02	200	78	2180	4	4474	AX
	8308	125	84/05/04	0136:55	0137:17	43	50	1333	2		I
	8309	125	84/05/04	0139:03	0139:09	13	93	912	3	4476	I
	7039	125	84/05/04	0605:13	0605:46	141	736	14307	7	4476	FS
	7040	125	84/05/04	0857:52	0858:40	155	85	1086	2		
	7041	125	84/05/04	1649:11	1651:18	166	63	579	2		
	7042	125	84/05/04	1709:04	1709:58	126	61	296	2		
	7043	125	84/05/04	2033:59	2034:36	72	63		2		
	7044	125	84/05/04	2331:47	2334:39	359	108	8126	5		
	7045	125	84/05/04	2341:30	2343:07	160	132	6092	2	4476	
	7046	126	84/05/05	0105:24	0106:42	173	803	31143	4		
	7047	126	84/05/05	0357:41	0358:13	197	63		2		
	7048	126	84/05/05	0421:16	0421:32	49	74		2		
	7049	126	84/05/05	0841:09	0842:07	142	73		2		
	7050	126	84/05/05	0849:01	0849:49	168	80		2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7051	126	84/05/05	0901:39	0903:00	164	73		2		
7052	126	84/05/05	0905:04	0905:44	172	84		2		
8310	126	84/05/05	1148:24	1153:34	1822	915	9.87E+05	5	4480	I
8311	126	84/05/05	1342:57	1343:23	83	59	4078	2		I
7053	126	84/05/05	1612:25	1612:38	35	65		2		
7054	126	84/05/05	1616:02	1616:21	181	1120	27123	4		
7055	126	84/05/05	1801:31	1802:21	115	83		2		
7056	126	84/05/05	1808:24	1814:43	1780	17630	6.61E+06	15	4474	M ,EN,FS
7057	126	84/05/05	1925:44	1925:55	121	197	9200	3		
7058	126	84/05/05	2249:46	2250:00	99	58		3		
7059	127	84/05/06	0012:21	0012:33	36	81		2		
7060	127	84/05/06	0131:27	0132:54	286	317	15452	3		
7061	127	84/05/06	0142:52	0144:08	256	384	10594	3	4481	
7062	127	84/05/06	0218:51	0219:12	47	125	926	2		
7063	127	84/05/06	0458:52	0459:18	70	74		2		
7064	127	84/05/06	0821:52	0822:23	266	369	8760	2	4481	
7065	127	84/05/06	1624:21	1624:34	120	1652	13758	10	4481	FS
7066	127	84/05/06	1807:37	1808:03	237	299	4491	5		
7067	127	84/05/06	1902:38	1904:05	175	589	19390	7	4481	
7068	127	84/05/06	1909:52	1910:01	47	61	230	2		
7069	127	84/05/06	1936:16	1936:21	21	118	261	2		
7070	127	84/05/06	2119:46	2119:59	22	70	113	2		
7071	128	84/05/07	0120:39	0120:56	66	306	3106	5		
7072	128	84/05/07	0316:59	0317:25	39	220	1907	4		
7073	128	84/05/07	0427:15	0428:51	153	77	1725	2	4481	
7074	128	84/05/07	0611:26	0611:49	72	76	578	2		
7075	128	84/05/07	0623:25	0624:01	101	83	888	2		
7076	128	84/05/07	1436:35	1436:56	52	70	357	2	4481	
7077	128	84/05/07	1520:47	1521:43	128	91	1097	3		
7078	129	84/05/08	0748:59	0749:23	92	75	542	2		SN
7082	129	84/05/08	1229:09	1229:41	47	77	584	2		
7083	129	84/05/08	1456:03	1456:25	108	189	2538	3		
7084	130	84/05/09	0046:54	0047:04	56	67	467	2	4481	
7085	130	84/05/09	0533:37	0533:59	37	79	426	2		
7086	130	84/05/09	0838:11	0838:53	135	77	135	2		
7087	130	84/05/09	1505:18	1505:20	4	116	164	3	4481	
7088	130	84/05/09	1515:03	1515:11	20	96		2	4481	
7089	130	84/05/09	1529:07	1529:28	56	336	5520	3	4481	
7090	130	84/05/09	1606:33	1606:44	129	65	467	2	4481	
7091	131	84/05/10	0148:56	0149:33	60	73	2559	2		
7092	131	84/05/10	0206:53	0207:50	83	67	369	2		
7093	131	84/05/10	0319:08	0319:48	165	270	8503	4	4481	
7094	131	84/05/10	0640:41	0641:43	96	74	535	2	4481	
7097	131	84/05/10	0957:41	0958:11	51	68		2		
7098	131	84/05/10	1301:50	1302:25	72	75		2		
7099	131	84/05/10	1308:14	1308:45	61	72		2		
7100	131	84/05/10	1422:06	1422:35	53	61		2	4484	
7101	131	84/05/10	1459:33	1459:58	78	64		2	4481	
7102	131	84/05/10	1550:11	1552:22	306	145	7390	2	4481	
7306	131	84/05/10	1720:40	1722:22	1108	13460	1.07E+06	15	4481	I
7103	131	84/05/10	1750:33	1751:28	202	5739	84976	9		FS
7104	131	84/05/10	2051:22	2051:38	46	58	281	2	4481	
7105	132	84/05/11	0435:30	0435:43	43	86	547	3		
7109	132	84/05/11	1523:12	1523:22	50	97	786	3		
7110	132	84/05/11	1524:24	1525:13	183	570	17265	4	4481	FS
7111	132	84/05/11	2034:22	2035:03	641	503	52958	3	4481	
7112	132	84/05/11	2050:37	2050:56	165	411	7030	3		
7113	133	84/05/12	0004:31	0004:53	42	119	4419	2	4481	
7114	133	84/05/12	0316:35	0316:51	27	72		2	4481	
7115	133	84/05/12	0414:25	0414:47	39	74		2		
7116	133	84/05/12	0444:20	0444:38	33	72		2		
7117	133	84/05/12	0540:36	0541:04	65	69		2		
7118	133	84/05/12	0542:14	0542:22	46	71		2		
7119	133	84/05/12	0549:17	0549:44	49	79		2	4481	
7120	133	84/05/12	0900:49	0901:27	99	96		2	4481	
7121	133	84/05/12	1538:00	1538:09	41	74		2	4481	
7122	133	84/05/12	1655:04	1655:19	48	68		2		
7123	133	84/05/12	1655:53	1656:27	54	89		2	4481	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7124	133	84/05/12	2206:00	2206:07	29	66		2		
7125	133	84/05/12	2301:35	2301:40	70	61		2		
7126	133	84/05/12	2304:39	2305:48	546	129	10875	2	4481	
7127	134	84/05/13	0039:49	0040:40	102	163	3695	3	4481	
7128	134	84/05/13	1012:57	1013:30	76	98		2		
7129	134	84/05/13	1142:57	1143:04	33	93		2	4481	
7130	134	84/05/13	1442:06	1443:07	103	79	333	2	4481	
7131	134	84/05/13	1747:50	1748:36	110	82	948	2		
7132	134	84/05/13	1755:38	1755:53	87	89	777	2	4481	
7133	134	84/05/13	1832:48	1833:42	159	79	695	2		
7134	134	84/05/13	2114:18	2114:44	53	75	269	2		
7135	135	84/05/14	1545:13	1545:41	76	60		2		
7136	135	84/05/14	1809:28	1810:12	111	67	609	2		
7137	135	84/05/14	1813:00	1813:22	166	73	7709	2	4481	
7138	135	84/05/14	2214:17	2215:33	528	121	9510	3	4481	
7140	136	84/05/15	0933:14	0933:40	149	65	401	2		
7141	137	84/05/16	1209:17	1210:05	77	67	468	2	4481	
8314	138	84/05/17	1334:56	1335:00	12	95	687	3		I
8315	138	84/05/17	1342:10	1343:25	80	113	4690	3		I
8316	138	84/05/17	1352:37	1354:10	209	69	10598	3		I
7143	138	84/05/17	1440:58	1441:17	320	203	6814	3	4481	
7144	138	84/05/17	1528:15	1529:48	129	78		2	4481	
7145	138	84/05/17	1656:55	1657:04	14	68		2		
7146	138	84/05/17	1749:52	1750:11	61	99		2	4492	
7147	138	84/05/17	1819:43	1820:33	80	147	1863	2	4492	
7148	138	84/05/17	1824:25	1824:45	57	106	839	2		
7149	138	84/05/17	1826:24	1826:35	35	70		2		
7150	138	84/05/17	1836:52	1837:47	139	207	8134	3		
7151	138	84/05/17	2116:43	2117:02	282	1074	14179	6		FS
8317	139	84/05/18	0402:17	0402:31	117	96	6810	2	4481	I
8318	139	84/05/18	0534:24	0534:31	20	632	5778	8	4481	I
7152	139	84/05/18	0706:08	0706:31	65	124	1586	2		
7153	139	84/05/18	0831:19	0831:27	36	72		2	4492	
7154	139	84/05/18	0933:05	0937:05	415	248	27500	5		
7155	139	84/05/18	0944:06	0944:44	94	60		2		
8319	139	84/05/18	1116:45	1116:50	8	96	505	3	4492	I
8320	139	84/05/18	1151:32	1151:48	39	104	2016	3	4492	I
8321	139	84/05/18	1158:14	1159:53	192	64	9730	2	4481	I
7158	139	84/05/18	1300:32	1301:03	145	166	2488	3		
7159	139	84/05/18	1306:10	1308:02	558	482	63942	4		
7160	139	84/05/18	1412:52	1413:20	133	63	448	2		SN
7161	139	84/05/18	1428:56	1429:59	135	85	1392	6	4492	AX
7162	139	84/05/18	1456:06	1457:05	84	73	726	2	4492	
7163	139	84/05/18	1606:59	1607:39	165	82	2001	5		AX
7164	139	84/05/18	1612:51	1613:07	111	119	747	3	4481	
7165	139	84/05/18	2053:40	2054:04	150	154	2374	2	4481	
7166	140	84/05/19	0305:09	0306:39	140	114	1774	2		
7167	140	84/05/19	0309:29	0310:50	104	80		2		
7168	140	84/05/19	0423:55	0424:12	30	69		2		
7169	140	84/05/19	0603:55	0604:44	103	112	2015	2	4494	
7170	140	84/05/19	0737:59	0738:58	108	72		2		
7171	140	84/05/19	0747:27	0748:23	274	2409	85398	6	4481	FS
7172	140	84/05/19	1544:59	1545:43	56	89		2	4492	
7173	140	84/05/19	1729:30	1730:20	123	300	5918	3	4494	
7174	140	84/05/19	2021:30	2021:59	59	68		2		
7175	140	84/05/19	2030:43	2031:20	52	72		2		
7176	140	84/05/19	2033:33	2038:08	995	91	10047	2	4492	
7177	140	84/05/19	2150:17	2152:25	1720	193700	3.50E+07	15	4492	M
7178	140	84/05/19	2219:14	2219:34	84	93		2		
7179	140	84/05/19	2341:38	2342:55	280	3256	71273	9		M ,FS
7180	141	84/05/20	0100:13	0100:32	54	74		2	4494	
7181	141	84/05/20	0103:52	0104:13	58	80		2	4494	
7182	141	84/05/20	0111:46	0112:35	149	136	3929	2	4494	
7295	141	84/05/20	0125:26	0126:37	628	2723	3.78E+05	10	4492	M
7183	141	84/05/20	0249:41	0251:33	268	324	22139	3		
7184	141	84/05/20	0256:03	0300:28	1189	6859	7.74E+05	10	4492	M ,FS
7185	141	84/05/20	0404:25	0406:28	307	354	30196	3	4492	
7186	141	84/05/20	0432:12	0432:30	56	110	1041	2	4492	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7187	141	84/05/20	0443:39	0445:21	177	75		2		
7188	141	84/05/20	0539:19	0541:26	597	5530	7.15E+05	9	4492	M ,SA
7189	141	84/05/20	0603:53	0606:02	168	75		2		
7190	141	84/05/20	0617:36	0619:35	276	1440	59095	11	4492	
7191	141	84/05/20	0714:00	0714:08	15	55		2		
7192	141	84/05/20	0715:20	0716:06	64	72		2		
7193	141	84/05/20	0757:09	0758:32	158	115	2319	2		
7194	141	84/05/20	0856:09	0858:23	619	152	23055	2	4492	
7195	141	84/05/20	1017:20	1019:59	364	201	8993	3		
7196	141	84/05/20	1114:37	1115:03	55	107	1334	2	4492	
7197	141	84/05/20	1151:49	1152:38	83	57		2		
7198	141	84/05/20	1153:53	1154:54	113	66		2		
7199	141	84/05/20	1228:07	1228:39	87	63		2		
7200	141	84/05/20	1233:23	1233:51	47	196	1336	3	4492	
7201	141	84/05/20	1332:14	1335:46	602	621	67805	6		
7202	141	84/05/20	1513:26	1514:02	527	2958	79356	7	4492	M ,FS
7203	141	84/05/20	1638:16	1638:47	66	83		2		
7204	141	84/05/20	1944:09	1944:24	67	108	1062	2	4492	
7205	141	84/05/20	2014:56	2015:22	60	63		2		
7206	141	84/05/20	2018:26	2019:12	99	357	4423	4	4492	
7207	141	84/05/20	2122:20	2122:27	26	106	355	3		
7208	141	84/05/20	2153:01	2153:37	200	14690	1.91E+05	15	4492	M ,FS
7209	141	84/05/20	2253:11	2253:21	1972	223	52611	2	4492	SN
7210	142	84/05/21	0032:30	0032:38	15	87	189	2		
7216	142	84/05/21	0216:12	0216:40	37	88		2		
7211	142	84/05/21	0219:19	0219:43	1102	23650	1.86E+06	7	4492	SG,EG,DG,ND
7212	142	84/05/21	0410:55	0411:33	74	73	393	2	4494	
8322	142	84/05/21	0515:41	0515:50	17	107	893	3		I
8323	142	84/05/21	0535:06	0535:08	6	194	578	3	4481	I
7213	142	84/05/21	0819:50	0820:01	18	66	130	2		
7214	142	84/05/21	0822:46	0822:57	28	90	488	2		
7215	142	84/05/21	0844:24	0844:31	41	92	435	2		
7217	142	84/05/21	1313:58	1314:36	123	118	2587	6		
7218	142	84/05/21	1325:09	1326:38	615	1544	49793	7	4492	FS
7219	142	84/05/21	1400:11	1400:25	28	82		2	4492	
7220	142	84/05/21	1613:08	1620:47	672	632	1.29E+05	3	4492	EG
7221	142	84/05/21	1632:15	1632:19	81	114	1568	2		SG
7222	142	84/05/21	1641:00	1645:59	347	176	5014	3	4492	
7224	142	84/05/21	1746:33	1746:44	258	414	12617	7	4492	SN
7225	142	84/05/21	1757:34	1805:37	1365	1286	2.59E+05	7	4492	
7226	142	84/05/21	1938:29	1938:52	188	88	716	2	4492	
8324	142	84/05/21	1949:35	1957:45	778	92	42215	2		I
7228	143	84/05/22	0505:18	0505:38	42	118	674	3		
7229	143	84/05/22	0506:02	0506:10	23	181	704	5	4492	
8326	143	84/05/22	0629:50	0631:25	746	653	1.51E+05	9	4492	I
7227	143	84/05/22	1112:59	1113:52	100	89	1230	3	4492	
7230	143	84/05/22	1425:32	1425:49	69	84	761	2		
7231	143	84/05/22	1430:26	1431:55	198	95		5		ND
7232	143	84/05/22	1452:07	1457:01	1204	8748	1.72E+06	15	4492	M ,EN,FS
7233	143	84/05/22	1557:39	1557:54	51	66		2		
7234	143	84/05/22	1603:45	1603:54	67	77		2		
7235	143	84/05/22	1744:07	1744:12	13	93		2	4496	
7236	144	84/05/23	0143:19	0143:38	31	99		3		
7237	144	84/05/23	0256:23	0256:47	71	128	1426	2	4492	
7238	144	84/05/23	0509:17	0511:12	504	5875	2.18E+05	8	4492	M
7239	144	84/05/23	0603:36	0603:47	36	63		3		
7240	144	84/05/23	1122:04	1122:36	51	99	1002	3		
7241	144	84/05/23	1216:38	1217:28	231	170	6143	3	4492	
7242	144	84/05/23	1252:43	1253:37	139	76	965	2		
7243	144	84/05/23	2345:15	2346:24	419	175	12366	3	4492	
7249	145	84/05/24	0537:38	0537:51	37	186	3523	3	4492	I
8329	145	84/05/24	0550:17	0550:55	136	75	7055	2		I
7250	145	84/05/24	1246:53	1247:31	185	284	6408	4	4492	
7251	145	84/05/24	1409:09	1409:22	65	61		2		
7252	146	84/05/25	0223:05	0223:17	22	79		2		
7269	146	84/05/25	0421:19	0423:06	161	614	6352	6	4492	FS
7270	146	84/05/25	0424:25	0425:22	131	166	3380	3		
7271	146	84/05/25	0715:43	0715:52	16	69	121	3	4494	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7272	146	84/05/25	0838:37	0839:57	393	1882	1.55E+05	10	4492	FS
7273	146	84/05/25	0845:23	0847:17	393	519	39111	6		
7274	146	84/05/25	1459:40	1500:06	80	89	1230	2	4492	
7275	146	84/05/25	1635:26	1635:40	26	77	196	2		
7276	146	84/05/25	1957:15	1958:10	122	235	5378	3	4494	EG
8325	146	84/05/25	2129:53	2130:16	75	119	5347	3	4492	I
7277	147	84/05/26	0143:38	0144:15	144	81		2	4492	
7278	147	84/05/26	1247:25	1248:13	186	91		5		AX
7279	147	84/05/26	1315:26	1319:04	571	195	10481	3	4492	
7280	147	84/05/26	1757:37	1758:51	113	130	2218	4		ES
7281	147	84/05/26	1923:02	1923:33	55	114	799	2	4492	
7282	148	84/05/27	1001:09	1001:49	102	70		2		
7283	148	84/05/27	1552:42	1552:49	32	155	649	2	4492	
7284	150	84/05/29	0909:49	0910:08	87	102	914	2	4494	
7285	151	84/05/30	1028:16	1030:04	177	87	973	4	4504	
7289	151	84/05/30	1725:44	1726:08	114	115	2865	3	4500	
7290	152	84/05/31	0626:10	0626:35	41	88		2	4500	
7291	152	84/05/31	1004:18	1005:48	173	99		4	4500	
7294	152	84/05/31	1131:51	1137:53	619	176	28723	4		EN
8331	154	84/06/02	0357:09	0357:32	48	64	2322	2		I
7296	155	84/06/03	0147:20	0148:19	158	100	3527	2	4500	
7311	166	84/06/14	1141:46	1142:14	54	64	527	5	4513	
7312	166	84/06/14	1452:07	1452:25	84	182	2996	5	4509	
7313	166	84/06/14	1455:13	1455:16	21	71	117	2		
7314	166	84/06/14	2013:42	2014:11	206	503	11135	4	4509	
7315	166	84/06/14	2144:43	2145:00	132	181	3761	3	4513	
7316	167	84/06/15	2008:43	2009:10	40	91		2		
7317	168	84/06/16	0324:32	0326:07	287	280	14755	3	4513	FS
7318	169	84/06/17	2356:38	2358:23	172	82	827	2		
7319	170	84/06/18	1040:07	1040:25	50	90	292	2		
7324	172	84/06/20	2030:13	2030:56	56	82		2	4520	
7325	174	84/06/22	2153:14	2154:44	168	84		3	4520	
8332	175	84/06/23	1916:03	1916:13	21	108	1286	2	4513	I
8333	175	84/06/23	1921:26	1922:12	128	66	6834	2	4513	I
7326	179	84/06/27	1806:05	1808:19	565	219	14698	4	4525	
7327	179	84/06/27	1949:59	1950:09	17	76	133	2		
7331	180	84/06/28	1616:10	1617:59	200	81	2199	2	4525	
7332	180	84/06/28	1921:09	1922:35	200	97		4		
7337	184	84/07/02	1601:49	1603:11	171	89		6		
7335	184	84/07/02	1804:23	1805:04	218	94	3898	5	4525	AX
7336	184	84/07/02	1943:18	1944:21	97	72	711	2		
7338	185	84/07/03	1358:19	1359:11	136	82	1030	4		
7341	186	84/07/04	0241:44	0244:11	656	480	83486	6	4532	
7342	186	84/07/04	1402:00	1402:29	34	70		11		AX
7343	187	84/07/05	1506:16	1507:41	194	153	6479	2		
7349	190	84/07/08	1041:20	1041:40	113	80		13	4532	AX
7351	192	84/07/10	0821:20	0822:13	86	72	563	2	4532	
8335	193	84/07/11	0942:43	0943:05	39	68	1915	2		I
7364	195	84/07/13	1042:59	1044:39	156	75		2		
8338	195	84/07/13	1613:49	1614:02	31	91	2061	4		I
7365	195	84/07/13	1750:58	1752:11	100	81		3		
7366	198	84/07/16	1027:08	1027:43	64	59		2		
7367	198	84/07/16	1107:47	1108:37	112	82		6		AX
7368	199	84/07/17	0056:18	0059:14	825	533	86084	9	4537	
7369	199	84/07/17	0904:38	0905:09	58	76	791	2		AX
7370	199	84/07/17	0947:16	0949:25	183	90	3068	12		AX
7371	199	84/07/17	1042:39	1044:43	156	84		6		AX
7372	204	84/07/22	0809:29	0809:57	42	436	3085	4	4545	
7393	207	84/07/25	2057:31	2057:34	23	138	592	15		
7394	210	84/07/28	0933:40	0933:49	40	70		15		
7395	211	84/07/29	1446:45	1447:04	58	109	1150	10		NS,GB
7396	211	84/07/29	1526:57	1527:45	108	74	819	12		
7404	215	84/08/02	2235:16	2236:28	498	122	11287	5		
7405	216	84/08/03	0059:16	0101:47	197	74		7		AX
7407	218	84/08/05	2347:55	2348:02	35	103	996	15		NS,GB
7408	219	84/08/06	0046:41	0047:02	68	73		2	4554	
7426	231	84/08/18	2241:48	2243:05	521	347	43277	3	4563	
7427	231	84/08/18	2300:03	2302:18	600	1715	2.58E+05	4	4563	M ,FS

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7428	232	84/08/19	0201:41	0201:59	46	71		2	4563	
7429	232	84/08/19	0342:11	0342:43	69	69		2	4563	
7430	232	84/08/19	1745:56	1747:30	140	70		3		
7431	233	84/08/20	0200:24	0200:37	32	80	237	15		NS,GB
7432	237	84/08/24	0508:54	0509:18	31	85	229	2		
7433	237	84/08/24	1222:13	1223:40	182	88	2381	9		AX
7434	239	84/08/26	0213:47	0214:13	127	95	1559	2	4567	
7435	239	84/08/26	0522:35	0524:03	197	80	2980	2	4567	
7436	250	84/09/06	1950:11	1951:06	169	175	2526	5	4575	
12729	252	84/09/08	1957:34	1957:35	5	134	163	15		NS,GB
7437	252	84/09/08	2041:31	2041:48	74	68		2		
8356	252	84/09/08	2357:07	2357:27	46	253	4599	4	4575	I
7438	257	84/09/13	1719:52	1720:31	133	86	1700	15		
7439	257	84/09/13	2221:49	2221:58	54	67	430	12		
7442	261	84/09/17	1433:02	1434:31	172	73	1296	15		
7443	261	84/09/17	1852:23	1852:30	12	116	325	14		NS,GB
7447	268	84/09/24	0225:17	0225:24	77	64	485	2		
7448	272	84/09/28	2110:53	2111:50	133	81		3		
7449	282	84/10/08	1336:20	1337:20	136	101	2666	5		AX
7450	282	84/10/08	1514:34	1515:39	177	89		5		SG
12730	289	84/10/15	2256:28	2256:35	15	56	53	8		NS,GB
7460	309	84/11/04	0248:19	0250:23	161	95		2		
12731	310	84/11/05	1702:22	1702:22	6	38				NS,GB
7464	315	84/11/10	0025:06	0025:34	42	78		4		
7465	315	84/11/10	2002:05	2007:03	362	5530	3.64E+05	11	4592	EN
7466	315	84/11/10	2046:13	2048:22	175	71		4		
8367	317	84/11/12	1027:58	1028:17	201	103	4570	4	4592	I ,SN,ES
12732	319	84/11/14	0401:50	0401:53	7	62	40	10		NS,GB
7467	321	84/11/16	1412:57	1414:57	344	171	6014	5	4592	
12733	324	84/11/19	2232:26	2232:39	59	73	592	10		NS,GB
7475	327	84/11/22	0514:12	0515:37	106	154	2798	2	4598	
12734	330	84/11/25	0908:17	0908:19	8	74	85	15		NS,GB
7476	330	84/11/25	2314:44	2315:43	77	166	1693	3	4598	
7477	331	84/11/26	1257:54	1258:21	72	85		4		
7478	331	84/11/26	1913:22	1914:43	188	880	19025	5	4598	M
7479	332	84/11/27	0217:58	0218:15	113	154	4585	3	4598	
7480	332	84/11/27	0450:12	0450:45	101	189	3416	4	4598	
7481	332	84/11/27	0623:36	0623:54	25	75		2	4598	
7482	332	84/11/27	1054:18	1056:41	906	397	37152	5	4598	SN
7483	332	84/11/27	1407:32	1407:34	22	74	347	15		
7484	332	84/11/27	1846:21	1846:38	238	114	4262	2	4598	
7485	333	84/11/28	0805:29	0805:36	23	104	350	2	4598	
8393	336	84/12/01	1844:58	1852:58	811	41	1958	3		I
7486	338	84/12/03	1048:40	1049:22	130	86		3		
7492	340	84/12/05	0128:25	0129:03	128	110	977	14		NS,GB
8395	348	84/12/13	0314:28	0315:10	123	131	2586	9		I
7521	1	85/01/01	0835:51	0835:59	21	151	294	15		NS,GB
8401	14	85/01/14	0604:27	0605:15	71	85	618	2		I
8402	16	85/01/16	1016:36	1016:44	107	95	1532	12		I
8403	18	85/01/18	1524:15	1524:30	41	131	1004	3		I
7541	19	85/01/19	0701:58	0702:16	40	82		2	4616	
7542	20	85/01/20	1254:19	1254:57	164	161	3644	3		
7543	20	85/01/20	2045:27	2045:51	1509	13040	9.27E+05	10	4617	M
7544	21	85/01/21	0010:58	0011:24	140	163	3036	2	4617	
8404	21	85/01/21	0217:39	0218:16	67	84	823	2	4617	I
8405	21	85/01/21	0344:23	0351:17	1003	424	1.31E+05	3	4617	I
8406	21	85/01/21	0503:57	0505:27	366	792	85891	6	4617	I
8407	21	85/01/21	0512:38	0513:12	84	697	10528	5		I
8408	21	85/01/21	0637:46	0638:09	74	65	573	2		I
7545	21	85/01/21	0705:49	0706:45	117	71		2	4617	
7546	21	85/01/21	0813:22	0813:28	16	69		2		
7547	21	85/01/21	1411:06	1417:19	548	1784	2.12E+05	4	4617	M ,ES
7548	21	85/01/21	1548:04	1548:24	70	111	1125	2		
7549	21	85/01/21	1712:32	1717:30	901	200	55595	2		SN
7550	21	85/01/21	1736:26	1737:11	54	93	1048	2	4617	ES
7551	21	85/01/21	2155:51	2156:30	61	78	495	2	4617	
7553	21	85/01/21	2208:28	2209:22	897	127	9510	2		DG
7554	21	85/01/21	2352:28	0001:32	6222	133000	4.83E+07	15	4617	M ,IN,IS,DG

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
7555	22	85/01/22	0146:17	0147:36	434	134	4163	3		DG
8409	23	85/01/23	0103:36	0103:47	27	94	358	2		I
8220	23	85/01/23	0723:52	0727:12	1757	1004	93995	4	4617	
7622	38	85/02/07	2129:00	2130:38	187	126	3820	5		
7623	38	85/02/07	2207:11	2208:04	88	67		5		
8420	40	85/02/09	1632:17	1632:32	115	83	870	8		I
7644	49	85/02/18	1552:30	1553:18	168	74	2060	2		
7645	49	85/02/18	2320:50	2322:39	566	122	11181	3		
7647	51	85/02/20	2130:31	2131:13	75	486	9915	5		
12735	58	85/02/27	0103:50	0103:50	20	46				NS,GB
12736	65	85/03/06	1207:24	1207:33	20	82	315	13		NS,GB
12737	74	85/03/15	2106:44	2106:47	8	83	209	13		NS,GB
12738	77	85/03/18	0956:18	0956:20	8	82	216	15		NS,GB
7677	80	85/03/21	0126:29	0126:59	80	117	1549	2		
7682	80	85/03/21	2153:08	2155:54	192	71		4		
7683	80	85/03/21	2224:27	2225:07	252	523	20637	5	4637	
7689	82	85/03/23	0117:24	0119:11	299	73		2	4637	
7690	84	85/03/25	2324:19	2324:44	64	63		2	4637	
7697	93	85/04/03	2032:08	2032:37	50	65		2		
7704	111	85/04/21	1405:57	1406:03	13	113	216	2		
7705	112	85/04/22	1420:37	1422:05	121	221	5029	15		SA
7706	112	85/04/22	1639:18	1639:46	238	1666	30660	9	4647	M
7707	112	85/04/22	1701:13	1702:01	108	68		2		
7708	112	85/04/22	1951:44	1952:01	50	331	1880	3		
7709	112	85/04/22	2131:53	2132:15	41	74		2	4647	
7710	112	85/04/22	2141:26	2141:48	53	104	3496	2		
7711	113	85/04/23	0250:55	0251:16	83	117	1474	2	4647	
7712	113	85/04/23	0850:42	0850:50	16	71		2		
7715	113	85/04/23	1040:13	1040:40	48	72	279	2	4647	
7716	113	85/04/23	1311:57	1312:19	51	74	438	2		
7717	113	85/04/23	1817:28	1817:44	45	68	475	3		
7718	113	85/04/23	2104:23	2109:28	442	339	21849	3	4647	
8474	114	85/04/24	0049:16	0049:28	69	130	1690	4		I
7719	114	85/04/24	0146:25	0146:47	41	80		2		
7720	114	85/04/24	0147:54	0148:21	829	2734	1.52E+05	7	4647	M
7721	114	85/04/24	0340:38	0341:04	64	62		2	4647	
7722	114	85/04/24	0448:00	0451:24	1200	194	33987	2	4647	
7723	114	85/04/24	0839:37	0839:49	17	247	1267	3		
7725	114	85/04/24	0926:39	0929:35	3736	18610	7.76E+06	15	4647	M ,SN,EN
7726	114	85/04/24	1645:22	1645:55	89	112	1630	3		SA
7727	114	85/04/24	1729:12	1729:40	47	75	263	2		
7820	114	85/04/24	2050:01	2050:14	47	112	1084	3	4647	I
7728	115	85/04/25	0317:31	0318:05	41	91	282	2		
7729	115	85/04/25	0421:25	0421:52	56	144	1599	3		
7730	115	85/04/25	0458:47	0459:12	46	220	1482	3	4647	
7731	115	85/04/25	0737:04	0737:33	73	68	704	2	4647	
7881	115	85/04/25	0912:00	0912:12	27	65		2		I
7882	115	85/04/25	0934:06	0934:27	63	363	3359	4		I
7732	115	85/04/25	1445:05	1445:28	42	139	959	3		M
7733	115	85/04/25	1854:26	1854:33	15	61	150	2		
7734	115	85/04/25	1857:59	1859:02	85	123	1482	3	4647	
7735	115	85/04/25	2026:38	2026:51	47	69	346	2		
7736	115	85/04/25	2034:19	2034:51	58	67	221	2		
7821	116	85/04/26	0231:22	0231:47	42	128	728	2	4647	I
7742	116	85/04/26	1422:18	1422:25	25	107	377	2		
7743	117	85/04/27	2324:49	2325:09	27	89		2		
7883	118	85/04/28	2212:15	2212:34	82	862	16747	4	4647	M ,I
7884	120	85/04/30	0412:14	0412:58	82	64		2	4647	I
7745	120	85/04/30	2343:44	2344:09	69	1224	18322	8	4647	M
7746	121	85/05/01	0847:08	0847:40	98	67	500	2		
7747	121	85/05/01	0912:42	0912:48	45	87	1010	3		
7750	121	85/05/01	1917:35	1918:19	84	115	1341	2	4647	
8741	122	85/05/02	0750:49	0753:35	278	292	6110	4	4647	I ,SN,SA
7754	126	85/05/06	1800:28	1800:44	35	105	670	2		
7755	127	85/05/07	0751:07	0751:22	50	102	921	2	4652	
7756	127	85/05/07	0814:36	0814:51	69	64	439	2		
7760	127	85/05/07	2138:17	2138:55	48	71	269	2		
7761	128	85/05/08	0243:38	0244:51	132	159	1637	3	4652	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
8476	128	85/05/08	1046:50	1047:04	49	85	434	2		I
8479	129	85/05/09	1942:22	1942:54	47	113	1350	3	4652	I
7764	132	85/05/12	1823:23	1824:39	116	70	945	2	4652	
7765	133	85/05/13	0516:53	0518:33	128	71	992	2		
8390	133	85/05/13	1819:30	1822:06	651	223	11924	5	4652	I
7768	133	85/05/13	2220:10	2221:30	190	75	1393	2		
8391	134	85/05/14	0010:40	0011:13	84	71	683	2		I
8392	134	85/05/14	0024:16	0025:16	122	60	1090	2	4652	I
7769	134	85/05/14	1124:40	1124:58	43	72	375	2		
7770	134	85/05/14	1556:29	1556:33	12	76		2		
8480	137	85/05/17	1732:41	1733:09	44	107	1070	10		I
7775	139	85/05/19	1527:54	1528:44	178	94		2		
7776	139	85/05/19	1717:46	1719:07	101	80		2		
7777	139	85/05/19	1731:12	1733:01	281	149	7588	2		
7795	141	85/05/21	0411:01	0411:32	235	137	4685	2	4656	
7854	141	85/05/21	0953:16	0954:18	117	1132	33900	12	4656	I
12739	152	85/06/01	1158:09	1158:10	6	68	23	15		NS,GB
7877	168	85/06/17	1205:58	1206:22	148	85	558	2	4663	
7878	168	85/06/17	1209:47	1210:00	28	67	198	3		
12740	169	85/06/18	0806:23	0806:26	8	75	74	8		NS,GB
8485	181	85/06/30	2326:46	2326:58	74	65	616	2	4670	I
7893	183	85/07/02	2113:18	2120:30	1868	7179	7.73E+05	15	4671	M5,DG
7894	184	85/07/03	2306:08	2306:22	41	91	495	2		
7900	187	85/07/06	1922:31	1923:06	68	113	1631	2	4672	
7901	187	85/07/06	2303:09	2303:20	30	138	594	2		
7902	188	85/07/07	0011:10	0011:47	94	143	1509	2	4672	
7903	188	85/07/07	0040:22	0041:07	112	93		2	4672	
7904	188	85/07/07	0526:28	0527:38	104	72		2	4671	
8486	188	85/07/07	2026:14	2027:16	94	488	5710	5		I
7905	188	85/07/07	2224:46	2226:07	193	95	2810	2		
7912	189	85/07/08	1214:59	1215:05	16	68	118	2		
7913	189	85/07/08	1558:26	1558:45	27	128	992	3		
7914	189	85/07/08	1605:07	1605:39	103	192	2206	2		
7915	189	85/07/08	2321:43	2321:59	36	88	592	2	4671	
7917	190	85/07/09	0845:24	0845:48	60	83		2		
7918	190	85/07/09	1541:51	1542:08	36	74		2		
7919	190	85/07/09	1646:07	1648:31	335	249	9653	2	4671	EG
7920	191	85/07/10	0030:50	0031:00	31	82		2		
7921	191	85/07/10	0859:45	0900:02	44	115	1244	2	4671	
7926	191	85/07/10	1021:40	1023:01	137	88	1639	2		
7927	191	85/07/10	1646:24	1646:45	127	165	2261	3	4671	
8487	191	85/07/10	2229:56	2230:03	26	43	163	2		I
8488	191	85/07/10	2231:45	2232:00	39	49	209	2	4671	I
7932	193	85/07/12	0141:18	0141:36	56	81	622	2		
7933	193	85/07/12	0433:33	0433:54	51	77	600	2		
7934	193	85/07/12	0501:29	0502:14	80	111	1476	2	4671	
7940	193	85/07/12	2151:44	2152:01	41	145	1004	2		
8489	194	85/07/13	0515:37	0515:42	30	84	343	3	4671	I
8490	194	85/07/13	0550:27	0550:43	27	163	683	3	4671	I
8491	194	85/07/13	0601:27	0601:45	88	78	1040	2		I
8492	194	85/07/13	0656:19	0657:31	174	144	6380	3	4671	I
8493	194	85/07/13	0848:51	0849:13	47	337	2790	6	4671	I
8494	194	85/07/13	1132:15	1132:33	26	86	298	3		I
8495	194	85/07/13	1316:53	1320:21	240	656	1810	6		I
7941	194	85/07/13	1950:34	1951:12	77	84		2		
7942	194	85/07/13	2104:53	2105:13	41	93		2		
7960	199	85/07/18	0040:23	0040:45	39	170	1062	12		NS,GB
12741	200	85/07/19	2335:01	2335:04	6	77	74	6		NS,GB
12742	207	85/07/26	0311:53	0312:12	49	62	404	15		NS,GB
12743	210	85/07/29	0153:49	0153:57	14	58	97	7		NS,GB
7975	210	85/07/29	1602:52	1603:47	94	85		2	4682	
7978	212	85/07/31	0334:58	0335:38	68	71		2	4680	
7979	213	85/08/01	0542:18	0542:52	107	74		2		
7980	213	85/08/01	0718:35	0718:54	152	73		2		
8511	218	85/08/06	1826:02	1826:20	34	66	282	3		I
7981	220	85/08/08	0742:45	0744:49	362	319	22581	4	4682	
7982	220	85/08/08	1547:48	1548:09	130	81	652	2		
7983	223	85/08/11	0508:24	0508:30	20	93	376	15		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
12744	232	85/08/20	1452:09	1452:42	58	90	440	12		NS,GB
7993	238	85/08/26	0824:02	0824:06	30	85		5		
12745	238	85/08/26	1254:22	1254:24	7	46	28			NS,GB
12746	239	85/08/27	2308:12	2308:16	12	67	103	10		NS,GB
7997	242	85/08/30	1544:20	1544:53	75	74		2		
7998	243	85/08/31	1116:26	1116:48	137	68		2		
7999	246	85/09/03	2329:38	2329:58	65	83		7		
8528	258	85/09/15	0733:40	0734:39	184	106	3390	4	4694	I
8005	260	85/09/17	0100:54	0101:12	62	73		9		
8531	263	85/09/20	2006:20	2006:24	14	117	246	15		I ,AX
12747	270	85/09/27	1146:16	1146:33	35	112	1240	12		NS,GB
8010	285	85/10/12	1044:31	1044:34	12	69	196	10		NS,GB
12748	290	85/10/17	0933:29	0933:30	6	83	207	11		NS,GB
8011	292	85/10/19	0458:32	0458:41	27	89		2	4698	
8012	296	85/10/23	2209:52	2210:22	88	89		2	4698	
8539	297	85/10/24	1150:02	1153:06	326	92	3750	2		I
12749	297	85/10/24	1456:15	1456:20	9	69	150	11		NS,GB
8014	299	85/10/26	0704:52	0705:17	51	57		2		
8015	317	85/11/13	2302:18	2303:49	369	92	6245	2		
8016	318	85/11/14	0308:06	0310:48	258	89	3994	2		SA
8055	349	85/12/15	0605:24	0606:23	148	98		2	4708	
8056	349	85/12/15	2215:26	2216:10	99	145	1998	2	4709	
8126	364	85/12/30	0317:47	0317:55	50	80		3		
12750	5	86/01/05	1734:43	1734:51	64	58	333	11		NS,GB
8132	15	86/01/15	0710:19	0711:14	115	67		2	4710	
8133	15	86/01/15	1156:20	1156:31	18	68		2		
8564	16	86/01/16	1206:53	1208:07	204	197	8000	2		I
8565	16	86/01/16	1611:59	1612:44	505	3414	65700	8	4710	I ,SN,EG
8134	20	86/01/20	1208:36	1209:34	158	145	4501	5		AX
8136	29	86/01/29	0917:53	0918:40	76	79		2		
8137	33	86/02/02	1119:56	1120:04	50	240	2146	2		
8138	33	86/02/02	1120:59	1121:54	119	130	2299	2		
8139	33	86/02/02	1307:08	1307:56	71	68		2		
8140	33	86/02/02	1308:49	1309:53	99	70		2		
8141	33	86/02/02	1612:54	1613:30	65	78		2		
8142	33	86/02/02	1706:34	1706:58	111	67		2		
8143	34	86/02/03	0922:32	0922:36	73	68		2		
8144	34	86/02/03	2036:47	2037:14	82	4174	1.21E+05	7	4711	M5
8145	34	86/02/03	2115:10	2115:25	3387	132	28727	4		SN,SG,DG
8146	35	86/02/04	0515:56	0516:14	40	88		2		
8147	35	86/02/04	0733:09	0737:14	317	85220	4.96E+06	14	4711	M5,EN
8149	35	86/02/04	1022:48	1026:04	1431	8487	1.16E+06	15	4713	M5,SA
8150	35	86/02/04	1610:36	1610:54	72	71		2		
8151	35	86/02/04	1929:57	1930:16	109	97		2		
8152	36	86/02/05	0041:27	0046:30	907	210	28054	4	4711	
8153	36	86/02/05	0330:24	0330:54	72	68		2		
8575	36	86/02/05	1019:02	1019:52	81	55	402	2		I
8154	36	86/02/05	1234:08	1235:43	302	377	32439	3	4711	M ,ES,DG
8155	37	86/02/06	0141:20	0141:25	53	72		2		
8465	37	86/02/06	0617:12	0622:05	1857	92037	1.18E+07	15	4711	I
8158	37	86/02/06	1527:32	1527:44	42	98	568	2		
8159	37	86/02/06	2026:05	2026:21	34	83	453	2	4711	
8160	38	86/02/07	0137:02	0137:08	21	62	213	2	4711	
8161	38	86/02/07	0237:53	0238:01	13	105	261	2		
8162	38	86/02/07	0306:03	0306:17	24	296	1072	4		
8163	38	86/02/07	0402:49	0403:06	36	82	211	2		
8164	38	86/02/07	0728:35	0728:44	48	74	566	2	4711	
8576	38	86/02/07	1042:20	1042:21	1405	196	81200	8	4711	I ,EN,SA
8166	38	86/02/07	2254:16	2255:25	126	75		3	4713	
8167	38	86/02/07	2325:52	2327:47	364	147	6360	3	4711	SG,DG
8168	39	86/02/08	2140:02	2140:13	54	73		2		
8169	40	86/02/09	0451:09	0451:29	67	66		2		
8170	40	86/02/09	2106:59	2107:16	56	255	3057	3		
8174	41	86/02/10	2018:30	2022:00	1184	1096	1.29E+05	10	4713	M
8175	41	86/02/10	2154:14	2155:10	152	67	993	2		
8176	42	86/02/11	0059:20	0059:56	194	273	5981	5	4713	
8177	42	86/02/11	2304:42	2324:29	1628	288	37509	3	4713	I
8178	43	86/02/12	0409:47	0409:50	7	74		2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	8179	44	86/02/13	0033:55	0034:02	12	132	343	3		
	8180	44	86/02/13	0151:09	0151:26	58	89		2		
	8181	44	86/02/13	0452:22	0453:09	170	184		2		
	8182	44	86/02/13	0455:15	0455:47	74	56		2		
	8344	44	86/02/13	1717:57	1720:23	317	53	2694	3	4713	I
	8188	44	86/02/13	1847:15	1847:45	40	131	628	2		
	8189	45	86/02/14	0909:48	0915:40	2025	2937	1.80E+06	13	4713	M
	8190	45	86/02/14	1544:07	1544:59	250	1603	38979	7	4713	
	8577	45	86/02/14	2036:16	2037:28	171	130	6200	3	4713	I ,EN
	8191	45	86/02/14	2340:45	2341:03	39	178	811	2		
	8578	46	86/02/15	0844:36	0845:36	110	804	20000	7	4713	I
	8579	46	86/02/15	1128:21	1129:12	593	138	27120	5		I ,SN,IS
	8580	46	86/02/15	1303:49	1304:36	145	548	20200	8		I ,SN
	8581	46	86/02/15	1308:10	1308:53	88	5178	1.15E+05	12		I
	8582	47	86/02/16	2227:23	2242:40	1538	240	1.27E+05	5		I ,EN,DG
	12751	49	86/02/18	0438:15	0438:19	11	52	39	9		NS,GB
	8196	60	86/03/01	1550:25	1550:56	165	62		2	4717	
	8197	61	86/03/02	0257:02	0257:20	72	174	1726	2		
	8198	61	86/03/02	0540:04	0542:35	295	112	5655	2	4717	
	12752	61	86/03/02	1131:35	1132:41	91	57	364	10		NS,GB
	8199	61	86/03/02	1950:12	1950:24	41	69		2		
	8200	61	86/03/02	1951:36	1952:22	80	118	972	2	4717	
	8201	62	86/03/03	0458:43	0500:14	243	120	46782	5	4717	
	8202	62	86/03/03	1251:43	1253:08	337	1965	56103	6		M
	8203	62	86/03/03	1333:45	1334:25	129	240	3499	2		
	8204	63	86/03/04	1136:52	1137:35	123	120	3684	3		
	8591	64	86/03/05	0427:33	0428:41	151	109	2580	2	4717	I
	8592	64	86/03/05	0708:11	0708:21	97	1922	44150	8	4717	I ,SN
	8206	64	86/03/05	1358:59	1359:15	50	70		2		
	8207	65	86/03/06	0414:33	0415:47	293	571	16869	4	4717	
	8208	65	86/03/06	0431:23	0431:30	16	329	1580	3	4717	M
	8209	65	86/03/06	0902:53	0903:11	69	111	3005	2	4717	
	8210	65	86/03/06	0955:17	0956:15	142	112	4066	2		
	8211	66	86/03/07	0000:22	0000:32	21	90		2	4717	
	8212	66	86/03/07	0201:38	0202:30	262	214	9097	3	4717	
	8213	66	86/03/07	0208:25	0208:38	21	64		2		
	8217	66	86/03/07	1239:46	1240:37	242	208	13709	15		
	8218	85	86/03/26	0334:02	0334:19	43	212	1840	14		NS,GB
	8219	99	86/04/09	0549:31	0549:39	33	278	1497	15		NS
	7599	112	86/04/22	1125:55	1126:24	87	81		2		I ,EN
	8221	113	86/04/23	1139:50	1140:05	84	64		2		
	8222	113	86/04/23	1403:01	1403:21	47	67		2	4726	
	7600	114	86/04/24	0039:04	0042:20	447	302	44031	3	4726	I
*	8223	114	86/04/24	0345:00	0346:39	555	834	62940	3	4726	
	8224	114	86/04/24	0631:31	0631:47	49	55		2		
	8225	114	86/04/24	0706:28	0706:47	31	69		2	4726	
	6574	115	86/04/25	1224:16	1226:10	178	68		3		I
	8226	116	86/04/26	0254:34	0254:43	23	67		2		I
	5859	116	86/04/26	1637:34	1638:28	186	305	18600	2	4726	I
	6016	117	86/04/27	2120:01	2120:30	52	67		2		I
	8358	124	86/05/04	1004:54	1008:53	599	55	6068	3	4727	I ,SN,ES
	8611	124	86/05/04	1630:57	1631:49	217	67	1550	3		I
	12753	137	86/05/17	0241:31	0241:44	22	67	356	15		NS,GB
	8231	141	86/05/21	0144:30	0144:59	50	80		2	4731	
	8613	144	86/05/24	0405:42	0405:48	28	72	360	15		I ,AX
	8232	145	86/05/25	2157:49	2158:33	87	141	4432	2	4731	
	8621	146	86/05/26	0745:52	0746:00	24	66	212	2	4731	I
	8239	154	86/06/03	1458:41	1459:39	171	91		5		
	8240	156	86/06/05	0121:58	0122:20	50	68		3		
	8245	165	86/06/14	2302:57	2303:14	69	84		15		AX
	7864	166	86/06/15	2037:45	2038:05	35	93		4		I
	8246	169	86/06/18	0256:56	0257:37	111	115	2255	6		
	8247	172	86/06/21	0632:50	0632:59	103	61		5		
	8251	194	86/07/13	0058:36	0101:03	183	85		2		
	8252	202	86/07/21	1325:44	1326:47	139	71		2		
	8253	207	86/07/26	1248:06	1248:33	92	71		2		AX
	8292	215	86/08/03	0148:19	0148:31	15	108	237	12		I ,NS,GB
	12754	221	86/08/09	1603:20	1603:26	12	65	106	10		NS,GB

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	12755	222	86/08/10	1057:26	1057:27	5	51	31	5		NS,GB
	8254	226	86/08/14	0037:07	0037:18	160	70		6		
	8255	233	86/08/21	2114:41	2115:25	144	70		11		
	7994	238	86/08/26	1230:31	1230:46	51	89	798	9		I ,NS,GB
	8294	242	86/08/30	0132:59	0133:04	20	114	253	15		I
	8256	256	86/09/13	0304:04	0304:10	142	124	3006	14		
	8257	259	86/09/16	2343:59	2344:04	85	219	2105	15		
	8258	271	86/09/28	1255:36	1256:03	70	83		5		
	8259	273	86/09/30	2227:14	2229:46	594	66	4175	2		
	8260	274	86/10/01	0207:17	0207:30	65	69		13		
	8261	275	86/10/02	0934:21	0934:48	76	80		7		
	8262	275	86/10/02	1820:51	1820:54	7	239	531	15		NS,GB
	8263	279	86/10/06	2122:58	2123:47	181	70		3		
	8264	286	86/10/13	1719:44	1720:00	37	75		2		
	8265	286	86/10/13	1720:58	1721:41	59	76		2		
	8266	286	86/10/13	1722:38	1724:26	127	83		2	4748	
	8267	286	86/10/13	2141:34	2141:45	32	68		2		
	8268	289	86/10/16	1755:58	1756:40	87	64		2		
	8336	289	86/10/16	2016:32	2016:40	28	57	208	2		I
	8270	289	86/10/16	2202:29	2202:49	62	397	3447	4		
	8339	290	86/10/17	1956:06	1958:21	217	50	286	2	4750	I
	8271	290	86/10/17	2312:40	2312:47	23	76		2		
	8272	291	86/10/18	0340:40	0341:28	150	523	4086	4	4750	
	8273	291	86/10/18	1214:49	1216:03	112	113	1948	2	4750	
	8340	291	86/10/18	1355:46	1356:01	34	57	172	2	4750	I
	8274	292	86/10/19	0020:05	0043:30	2513	3110	2.00E+06	13	4750	M5,EN
	8341	292	86/10/19	1629:28	1639:12	717	89	3311	4	4750	I
	8342	292	86/10/19	1641:28	1646:20	496	57	4699	10		I ,AX
	8275	292	86/10/19	2031:43	2031:56	91	122	728	3		
	8276	292	86/10/19	2105:27	2112:17	560	106	4065	2	4750	
	8277	293	86/10/20	0322:11	0322:44	106	173	2810	3		
	8278	293	86/10/20	0324:12	0324:38	108	313	7757	4	4750	
	8343	293	86/10/20	0755:37	0756:09	51	83	383	3	4750	I
	8279	293	86/10/20	1242:37	1243:00	50	52		2	4750	
	8280	293	86/10/20	1446:31	1446:44	22	62		2	4750	
	8281	293	86/10/20	1539:27	1540:04	96	69		2		
	8282	293	86/10/20	1908:17	1909:36	215	58	732	2		
	8283	295	86/10/22	1224:20	1225:05	56	85	1044	2		
	8284	297	86/10/24	1237:57	1238:43	177	946	32066	5		
	8345	297	86/10/24	2006:00	2006:24	53	61	151	2	4750	I
	8346	299	86/10/26	0153:00	0153:16	38	87	642	4	4750	I
*	8286	301	86/10/28	2009:18	2010:16	146	116	1296	2		
*	8285	301	86/10/28	2124:35	2125:07	138	161	3638	3	4750	
	8347	303	86/10/30	0016:29	0016:51	63	207	2562	4		I
	8348	303	86/10/30	0031:03	0031:41	64	61	324	2		I
	8350	303	86/10/30	0954:29	0954:42	35	66	251	2		I
	12756	303	86/10/30	1006:30	1006:35	10	86	121	5		NS,GB
	8287	309	86/11/05	0733:56	0734:57	75	67	526	2		
	8288	310	86/11/06	0219:46	0221:37	134	81	549	2	4755	
	8289	310	86/11/06	0536:06	0536:16	93	62	157	2	4755	
	8290	311	86/11/07	0622:53	0623:21	95	60	451	2	4755	
	12757	313	86/11/09	0528:58	0528:59	3	184	157	15		NS,GB
	8351	315	86/11/11	0426:14	0433:38	694	246	42468	6		I
	8291	317	86/11/13	0211:01	0211:42	234	150	5408	5		
	12758	327	86/11/23	0421:08	0421:15	17	65	115	5		NS,GB
	8293	331	86/11/27	0041:57	0042:03	14	122	242	12		NS,GB
	8295	343	86/12/09	0900:19	0900:55	223	67	1362	2		
	8296	344	86/12/10	1224:50	1226:04	283	78	1698	4		AX
	8305	364	86/12/30	0223:52	0224:36	193	69	1140	4		
	8307	3	87/01/03	0858:49	0859:03	28	172	784	7		M1
	8312	7	87/01/07	2214:56	2217:25	254	63	2232	4		AX
	8313	8	87/01/08	1408:12	1408:57	87	105	624	7		
*	8327	20	87/01/20	1657:38	1701:04	473	66	2707	2		
*	8328	20	87/01/20	1743:59	1744:01	337	816	28773	8		EN,SA,AX
	8359	26	87/01/26	1358:04	1413:47	1622	55	10665	5	4765	I ,SN
	12759	33	87/02/02	0253:42	0253:49	17	67	188	12		NS,GB
	8334	33	87/02/02	1241:15	1241:17	11	1816	1953	10		M1,NS
*	8349	53	87/02/22	1819:45	1821:57	153	105	1177	2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	8353	61	87/03/02	1224:33	1224:43	35	71	259	15		NS
	8352	61	87/03/02	1621:59	1622:01	14	81	181	2		
	8354	63	87/03/04	1353:15	1354:13	111	71	785	15		NS
	8355	65	87/03/06	1217:10	1217:18	125	177	4160	15		NS
	8397	70	87/03/11	2344:21	2344:39	172	206	4231	14		I ,NS,GB
	8398	72	87/03/13	1333:58	1342:30	555	58	3966	3		I
	8357	75	87/03/16	1233:12	1234:12	150	78	2041	5		AX
	8360	89	87/03/30	2154:40	2154:50	22	67	266	10		AX,NS
	8361	89	87/03/30	2201:20	2201:26	13	80	175	15		AX,NS
	8362	92	87/04/02	2030:38	2031:09	35	65	293	15		AX,NS
	8363	95	87/04/05	1933:40	1936:36	264	817	24486	6		
	8365	96	87/04/06	0428:05	0430:06	412	294	20746	6	4787	
	8364	96	87/04/06	1840:58	1841:30	115	70	606	3		AX,NS
	8366	98	87/04/08	0143:04	0143:46	293	140	11297	6		SA,AX
	12760	98	87/04/08	1017:16	1017:17	12	73	117	5		NS,GB
	8369	98	87/04/08	2353:29	2353:41	25	66	112	2	4787	
	8368	99	87/04/09	0636:30	0638:09	161	110	4171	3	4789	
	8370	100	87/04/10	0917:09	0917:46	66	60	352	2	4787	
	8371	100	87/04/10	1637:47	1637:52	23	77	348	2	4787	
	8372	100	87/04/10	1815:38	1816:47	565	102	5244	3	4786	
	8373	100	87/04/10	2139:21	2140:02	94	59	355	2	4786	
	8415	101	87/04/11	0415:36	0416:19	96	228	3294	5	4786	I
	8374	102	87/04/12	1935:46	1935:50	30	67	209	7		NS
	8375	102	87/04/12	2353:40	2353:50	25	106	468	4	4787	
	8376	104	87/04/14	1451:01	1451:14	28	51	173	15		NS
	8381	104	87/04/14	2003:09	2003:09	1	257	55	3		NS
	8382	104	87/04/14	2003:10	2003:11	1	259	51	2		NS
	8377	105	87/04/15	0231:16	0231:43	95	353	8031	5	4787	
	8378	105	87/04/15	1148:49	1149:24	110	123	1308	3	4787	
	8612	106	87/04/16	0041:54	0042:19	44	59	350	2		I
	8379	106	87/04/16	1314:20	1314:58	136	95	1672	3	4790	
	8380	106	87/04/16	1558:49	1608:15	1702	317	58527	4	4790	
	8383	107	87/04/17	1507:00	1507:13	45	55	211	2		
	8454	107	87/04/17	2340:57	2347:41	518	56	3443	2	4790	I
	8456	108	87/04/18	1355:04	1355:56	254	59	1557	2	4790	I
	8457	108	87/04/18	1443:46	1444:01	28	57	208	2	4790	I
	8458	108	87/04/18	1452:56	1454:04	182	68	1595	2		I
	8459	108	87/04/18	1521:52	1522:48	87	60	720	2	4790	I
	8460	108	87/04/18	1525:57	1526:17	39	57	160	2		I
	8461	108	87/04/18	1655:06	1655:09	14	51	103	2	4790	I
	8384	108	87/04/18	2131:22	2132:05	60	168	2101	6		
	8385	109	87/04/19	1439:03	1441:15	322	128	6455	4		
	8387	109	87/04/19	2109:59	2110:07	14	57	112	2		
	8388	109	87/04/19	2211:57	2212:07	34	64	232	3		
	8386	110	87/04/20	0116:06	0116:30	82	59	469	3		
	8389	110	87/04/20	0126:18	0126:25	14	67	79	2		
	8394	111	87/04/21	1808:56	1809:03	22	425	2638	15		NS
	8396	114	87/04/24	0735:51	0736:19	82	303	4620	5	4798	
*	8399	123	87/05/03	1420:46	1421:00	26	20	57	2		
	8400	125	87/05/05	1646:16	1646:21	20	71	141	2	4806	
	8410	135	87/05/15	0252:37	0252:45	20	61	151	2		
	8411	135	87/05/15	0826:58	0827:02	88	395	1640	15		NS,GB
	8413	137	87/05/17	0841:05	0843:46	1098	136	17310	4	4808	SA
	8414	138	87/05/18	0359:43	0359:58	30	61	230	2		AX
	8473	138	87/05/18	1637:32	1638:47	127	61	361	2	4811	I
	8416	139	87/05/19	0332:20	0332:58	59	90	866	7		AX
	8417	139	87/05/19	1251:09	1251:48	113	141	2011	2	4811	
	8418	139	87/05/19	2312:10	2312:46	174	142	4530	3	4811	
	8419	140	87/05/20	1318:11	1320:59	229	67	659	2	4811	
	8422	141	87/05/21	0342:05	0343:26	330	103	3950	3	4811	
	8421	141	87/05/21	0844:06	0844:24	52	216	2996	5		
	8423	141	87/05/21	2213:30	2213:57	61	82	519	2		
	8424	142	87/05/22	0447:03	0447:14	26	73	129	2	4811	
	8475	142	87/05/22	1224:20	1224:25	26	98	290	3		I
	8425	143	87/05/23	1546:22	1546:45	39	105	775	2	4811	
	8426	143	87/05/23	2340:48	2341:39	123	81	1416	5		
	8427	144	87/05/24	0047:17	0047:29	45	111	2117	5		
	8428	144	87/05/24	0905:28	0905:47	92	102	1747	2	4811	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
8429	144	87/05/24	1211:07	1211:17	56	148	2536	4	4811	
8430	144	87/05/24	1217:43	1218:37	152	73	1210	2		
8431	144	87/05/24	1524:23	1525:00	327	551	34620	5	4811	
8432	144	87/05/24	1620:41	1620:54	33	87	288	2		
8433	144	87/05/24	1920:43	1922:04	141	132	4102	4	4811	
8434	144	87/05/24	1924:51	1925:51	174	77	2189	4		
8435	144	87/05/24	2107:44	2108:06	33	71	774	5		
8436	144	87/05/24	2111:48	2112:16	45	265	2175	6	4811	
8437	144	87/05/24	2116:32	2117:23	81	132	3048	3		
8438	145	87/05/25	0340:15	0341:10	220	764	24097	5	4811	
8439	145	87/05/25	0455:15	0456:00	250	239	8597	5		
8650	145	87/05/25	1319:46	1321:15	174	73	1800	2	4811	I
8440	145	87/05/25	1853:35	1854:45	125	91	2665	2	4811	SN,EG
8441	145	87/05/25	2202:24	2205:31	223	60	966	3		
8442	145	87/05/25	2225:44	2225:58	26	88	283	3	4811	
8443	146	87/05/26	0006:12	0006:51	63	91	853	4	4811	
8444	146	87/05/26	0033:37	0033:53	35	133	707	3		
8445	146	87/05/26	0611:13	0612:07	123	62	806	2	4811	
8446	146	87/05/26	1701:08	1701:34	54	189	1239	5		
8447	146	87/05/26	1719:09	1720:10	133	219	3985	4		
8448	146	87/05/26	2215:00	2219:24	537	66	3676	6		
8449	147	87/05/27	0110:02	0110:10	24	63	189	2		
8450	147	87/05/27	0128:47	0128:58	37	71	300	2	4811	
8451	147	87/05/27	0135:07	0135:18	51	70	462	2	4811	
8452	148	87/05/28	0045:36	0045:49	22	81	292	2		
8453	148	87/05/28	0853:31	0853:48	32	180	1156	14		NS,GB
8455	148	87/05/28	2219:40	2220:05	53	66	234	2		
8477	149	87/05/29	1603:19	1604:22	94	85	1220	4		I
8478	149	87/05/29	1614:18	1618:35	655	85	9862	2		I
8462	152	87/06/01	1645:43	1645:53	16	57	74	2		
8463	153	87/06/02	0115:59	0116:07	28	179	789	11		NS,GB
12761	160	87/06/09	2346:17	2347:15	69	90	520	15		NS,GB
8466	161	87/06/10	0135:14	0135:21	22	99	312	15		AX
8467	162	87/06/11	0106:17	0106:18	35	128	686	15		AX
8468	165	87/06/14	1932:38	1935:26	670	87	6959	15		AX
8469	166	87/06/15	1250:07	1251:53	297	94	16591	4		
8470	166	87/06/15	1904:08	1904:24	684	131	41988	15		AX
8471	168	87/06/17	0842:06	0842:22	45	341	2730	15		NS,GB
8472	175	87/06/24	0015:07	0016:11	142	114	3053	7		
8481	184	87/07/03	2251:47	2251:50	8	680	689	2		M1,AX
8482	186	87/07/05	2258:15	2259:58	516	73	5501	4		
8484	197	87/07/16	0111:16	0111:48	129	153	3380	4		
8496	203	87/07/22	1557:28	1558:08	86	76	725	4		
8497	203	87/07/22	1749:09	1749:17	21	52	55	2		
8498	204	87/07/23	0920:52	0921:19	70	66	427	3	4826	
8499	204	87/07/23	1346:00	1346:40	71	315	4310	8	4826	
8500	204	87/07/23	1812:55	1814:27	133	67	1073	2	4826	
8501	204	87/07/23	2123:04	2125:15	159	93	1023	2		
8502	205	87/07/24	0033:51	0034:56	188	78	1821	2	4826	
8503	205	87/07/24	0955:39	0957:24	981	1351	1.47E+05	5	4826	
8504	205	87/07/24	1604:19	1604:22	43	165	774	15	4831	AX
8538	207	87/07/26	0327:46	0328:13	125	179	3050	4		I
8505	207	87/07/26	1123:53	1124:27	294	73	14075	3		
8506	207	87/07/26	1344:47	1345:20	152	93	7817	4		
8507	207	87/07/26	2029:55	2030:09	26	96	476	2		
8508	208	87/07/27	0217:39	0218:38	205	153	5171	3	4826	
8483	208	87/07/27	1809:48	1811:38	1053	4600	2.28E+05	9	4826	M
8509	209	87/07/28	1652:23	1652:25	98	90	1035	5		EN,SA,AX
8510	210	87/07/29	0143:07	0143:45	64	75	386	2		EG
8512	219	87/08/07	0843:25	0844:42	111	51	412	2	4835	
8513	219	87/08/07	0959:07	0959:17	61	153	848	9		
8514	219	87/08/07	1259:46	1259:52	11	106	156	3		
8515	219	87/08/07	1300:56	1301:45	86	95	723	2	4835	
8516	219	87/08/07	1943:50	1945:18	281	151	18071	2	4835	
8517	219	87/08/07	2234:22	2234:30	36	72	1847	2	4836	
8518	220	87/08/08	0130:57	0131:48	254	146	20258	2	4835	SN
8519	220	87/08/08	0151:01	0151:08	33	65	1497	2		
8520	220	87/08/08	0334:15	0334:48	316	566	46058	4	4835	

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	8548	220	87/08/08	2041:25	2042:47	137	165	4140	2	4835	I
	8549	220	87/08/08	2057:45	2057:56	18	68	83	2		I
	8550	220	87/08/08	2058:35	2058:47	58	100	639	2		I
	8551	220	87/08/08	2220:53	2222:43	217	72	1010	2	4835	I ,EG
	8521	221	87/08/09	0417:02	0417:08	36	74	1742	2		
	8552	221	87/08/09	1218:08	1218:28	35	77	422	2		I
	8525	221	87/08/09	1354:46	1355:38	81	736	14924	8	4839	ES
	8522	222	87/08/10	0232:18	0233:57	408	72	3975	2		
	8523	222	87/08/10	0258:26	0306:31	660	76	5167	3	4839	
	8524	222	87/08/10	0755:44	0755:46	16	211	571	15		NS,GB
	8526	222	87/08/10	1954:06	1954:27	69	66	336	4		
	8527	222	87/08/10	2119:04	2119:18	50	76	351	3	4839	
	8529	224	87/08/12	0434:42	0435:09	58	274	2703	5		
	8530	224	87/08/12	0611:13	0611:40	66	55	367	2		
	8532	225	87/08/13	0250:36	0251:15	92	57	705	3	4839	
	8533	225	87/08/13	1337:24	1339:46	197	217	20653	4	4842	ES
	8534	225	87/08/13	1555:52	1556:42	312	93	4173	2	4839	M
	8535	226	87/08/14	0521:35	0522:05	475	80	3813	5		
	8536	226	87/08/14	1613:25	1613:58	47	67	148	4		
	8537	231	87/08/19	1009:41	1013:59	500	116	10743	4	4839	M ,EN
	8540	232	87/08/20	1851:17	1852:42	197	56	1125	3	4841	
	8541	233	87/08/21	0555:46	0556:09	74	63	401	2		
	8542	233	87/08/21	2156:16	2156:52	84	85	4259	2	4845	
	8570	234	87/08/22	1336:31	1336:36	9	69	93	15		I ,NS
	8543	234	87/08/22	1638:23	1639:47	625	283	27057	4	4845	I ,EN
	8544	234	87/08/22	2207:58	2209:58	602	64	6162	4		M ,I ,AX
	8545	236	87/08/24	0729:51	0730:23	57	55	215	2		
	8546	236	87/08/24	0802:50	0802:56	17	56	98	2		
	8574	239	87/08/27	1426:59	1429:05	195	72	1620	2	4845	I
	8553	243	87/08/31	2151:38	2153:29	131	64	523	2		
	8554	244	87/09/01	1442:39	1442:45	176	63	864	12		NS
*	8555	247	87/09/04	0915:19	0915:50	58	366	3246	5		
	8661	248	87/09/05	0017:44	0018:13	160	77	1530	2	4849	I
	8556	248	87/09/05	1511:15	1511:20	58	73	428	11		NS
	8583	250	87/09/07	0735:28	0736:22	146	197	3810	3	4849	I
	8557	250	87/09/07	1159:33	1201:27	383	232	11389	3	4849	
	8558	250	87/09/07	1955:38	1956:02	59	62	367	2	4849	
	8560	251	87/09/08	1320:01	1320:26	65	55	352	2	4849	
	8561	251	87/09/08	1618:26	1619:29	74	51	269	2	4849	
	8562	252	87/09/09	0020:55	0020:59	16	68	41	2		
	12762	252	87/09/09	0840:25	0840:28	40	62	215	14		NS,GB
	8563	252	87/09/09	1735:29	1735:36	18	89	394	2		
	8566	254	87/09/11	1320:35	1321:17	180	64	1340	6		
	12763	254	87/09/11	1627:12	1627:15	8	61	67	5		NS,GB
	8587	254	87/09/11	1759:35	1808:54	1081	66	8840	2	4849	I
	8567	255	87/09/12	0636:50	0637:26	69	112	4421	4	4849	
	8568	256	87/09/13	1221:22	1221:49	60	74	3095	7		I
	8569	256	87/09/13	1531:12	1542:30	926	57	5605	4		
	8571	257	87/09/14	1330:59	1335:04	358	65	1700	2		
	8598	260	87/09/17	1128:44	1129:02	49	64	295	3	4853	I
	8572	260	87/09/17	1329:01	1329:04	18	600	1331	15		M ,AX
	8573	260	87/09/17	2009:03	2010:12	297	62	1600	2	4856	
	8588	271	87/09/28	2209:18	2209:26	34	152	616	7		
	8589	273	87/09/30	0454:34	0456:28	315	56	1895	2		
	8590	277	87/10/04	2211:14	2211:20	115	50	412	2	4860	
	8660	278	87/10/05	2128:47	2132:47	678	93	6380	5	4862	I
	8593	280	87/10/07	0053:47	0054:13	54	72	2668	3	4862	
	8594	282	87/10/09	0222:54	0223:12	168	78	1131	4	4862	SA,AX
	8595	283	87/10/10	0228:18	0228:34	36	51	217	2		
	8596	284	87/10/11	0007:20	0007:45	65	105	1252	2		
	8597	284	87/10/11	1600:39	1600:57	45	125	1130	14		NS,GB
	12764	285	87/10/12	1239:40	1239:41	4	49	32			NS,GB
	8599	286	87/10/13	2125:48	2126:07	32	69	190	2	4866	
	8600	287	87/10/14	0712:14	0712:26	21	69	187	2		
	8601	288	87/10/15	1107:11	1107:40	334	349	10353	3	4866	
	8602	289	87/10/16	0623:01	0623:23	47	62	362	2		
	8603	289	87/10/16	0916:21	0916:48	217	88	1820	2	4870	
	8604	289	87/10/16	1504:31	1504:59	60	259	3282	3	4866	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
8627	290	87/10/17	2236:01	2240:15	399	68	2970	2	4870	I
8605	291	87/10/18	0523:33	0524:04	82	62	3792	2	4866	ND
8606	291	87/10/18	1752:18	1752:34	29	76	165	2	4870	
8658	291	87/10/18	2035:04	2035:52	64	54	350	2		I
8607	292	87/10/19	1516:33	1516:44	33	64	604	2		AX
8608	292	87/10/19	2334:00	2334:22	57	89	788	2	4870	
8609	293	87/10/20	0358:43	0359:09	55	105	741	2		
8631	293	87/10/20	0843:20	0845:01	160	104	1470	3		I
8657	294	87/10/21	0848:38	0849:26	54	51	270	2		I
8630	294	87/10/21	1906:54	1907:02	23	67	271	15		I ,NS,GB
8610	294	87/10/21	2217:12	2217:48	52	55	119	2		
8614	303	87/10/30	1502:01	1503:42	188	55	1281	4		
8654	305	87/11/01	2045:27	2045:57	72	221	3320	4		I
8655	305	87/11/01	2210:26	2210:41	67	111	1550	3		I
8615	306	87/11/02	1352:27	1354:06	180	62	1130	2	4882	IS
8617	307	87/11/03	0216:21	0216:46	115	153	2748	3		
8618	307	87/11/03	0414:53	0414:57	18	337	914	9		NS,GB
8616	307	87/11/03	0534:49	0535:16	50	63	335	2		
8619	308	87/11/04	0803:46	0803:55	30	62	378	5	4875	
8620	308	87/11/04	0941:38	0941:49	76	113	781	3		
8622	308	87/11/04	1720:59	1721:27	146	65	949	2	4875	SN
8623	309	87/11/05	0455:34	0456:17	914	3075	3.33E+05	8	4875	M
8624	309	87/11/05	0941:59	0942:53	88	96	1135	3	4883	
8625	309	87/11/05	1844:57	1845:07	52	64	393	2		
8626	309	87/11/05	2333:00	2335:52	624	1739	1.41E+05	8	4875	M
* 8628	316	87/11/12	1855:09	1855:20	33	67	236	2	4890	
* 8629	316	87/11/12	2031:11	2034:22	368	77	1825	2	4890	M ,IS
* 8632	319	87/11/15	1623:14	1623:19	17	90	209	6		M ,NS,GB
* 8633	320	87/11/16	1900:59	1901:12	32	113	530	3	4890	
* 8634	321	87/11/17	0045:23	0045:32	34	63	252	2	4890	
* 8635	321	87/11/17	0206:26	0206:40	55	62	220	2	4890	
* 8636	321	87/11/17	0208:45	0209:07	84	58	248	2		
* 8637	322	87/11/18	0315:45	0318:21	359	739	31387	4	4890	
* 8638	322	87/11/18	1330:34	1331:12	54	193	1509	3	4891	
* 8639	322	87/11/18	1728:44	1729:46	70	104	3626	3	4890	
* 8640	323	87/11/19	0133:28	0133:32	11	223	901	4		
8641	323	87/11/19	1115:16	1115:54	90	69	4623	2		
8642	323	87/11/19	1738:33	1738:55	32	65	1590	2		
8643	324	87/11/20	0048:24	0049:02	320	77	2494	2	4890	
8644	324	87/11/20	0411:40	0417:32	1458	158	34110	5	4891	
8645	324	87/11/20	1941:27	1941:29	5	84	318	2	4891	
8646	324	87/11/20	2112:42	2114:33	281	108	12723	4		
8647	324	87/11/20	2328:46	2333:57	500	204	40851	4	4891	
8648	325	87/11/21	1756:32	1801:17	952	1503	2.20E+05	15	4891	IS
8649	326	87/11/22	0211:54	0212:19	38	69	1864	2	4891	
8667	328	87/11/24	1440:16	1440:36	104	73	1120	2	4896	I
8651	328	87/11/24	2229:21	2231:35	250	78	2423	3		
8652	329	87/11/25	1716:12	1716:39	53	67	355	2	4896	
8653	330	87/11/26	0314:17	0316:35	217	54	570	2	4891	
8656	337	87/12/03	1220:23	1220:32	22	74	199	7		NS,GB
8659	343	87/12/09	0341:02	0341:18	27	65	106	2		
8662	344	87/12/10	1403:36	1404:12	372	71	2096	2		
8663	344	87/12/10	1524:23	1526:40	168	65	717	2		
8678	344	87/12/10	1651:16	1657:51	1409	64	8300	4		I
8681	345	87/12/11	1058:29	1059:34	198	91	2470	5		I
8682	345	87/12/11	1236:20	1237:15	124	114	4360	4		I ,EN
8664	345	87/12/11	1318:46	1319:33	94	77	4868	6		
8665	345	87/12/11	1455:39	1457:51	256	61	12618	4		
8666	348	87/12/14	0421:54	0423:32	211	639	24257	6		M1
8683	349	87/12/15	0852:24	0853:42	184	92	2640	3	4906	I
8668	351	87/12/17	0748:49	0749:02	41	93	371	2		
8669	358	87/12/24	0443:24	0443:49	49	63	207	2		
8670	360	87/12/26	0214:21	0218:04	293	282	6508	3	4912	
8709	360	87/12/26	0344:46	0344:56	24	83	221	12		I ,NS
8671	360	87/12/26	1741:18	1741:34	32	126	750	2	4912	
8672	361	87/12/27	0019:13	0025:30	575	103	11610	2		
8673	362	87/12/28	0415:33	0417:01	161	80	1323	2	4912	
8674	362	87/12/28	0607:55	0609:34	124	608	19458	3	4912	M1

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	8675	362	87/12/28	1538:31	1539:07	90	355	4540	4	4912	
	8676	363	87/12/29	0705:40	0706:37	104	77	1162	2	4912	
	8677	365	87/12/31	0231:32	0231:51	57	81	887	2	4912	
	8679	2	88/01/02	2156:44	2156:51	3447	184	2.89E+05	5	4912	M1,SN,EN
	8727	3	88/01/03	0420:19	0421:20	375	66	1670	2		I
	8680	3	88/01/03	2315:41	2316:03	40	80	479	2		
	8684	5	88/01/05	2111:24	2111:28	22	67	190	7		
	8685	6	88/01/06	2018:36	2019:19	58	114	834	7	4919	
	8686	8	88/01/08	0201:51	0202:19	91	65	982	3	4921	
	8687	9	88/01/09	0221:00	0221:47	177	69	7515	2	4921	
	8688	11	88/01/11	1936:19	1936:41	70	59	173	2	4923	
	8689	13	88/01/13	0638:40	0640:08	131	84	1573	2	4923	
	8690	13	88/01/13	1559:46	1602:39	262	62	994	2	4919	
	8691	13	88/01/13	1857:31	1857:37	35	53	152	2		
	8692	13	88/01/13	1909:56	1910:32	80	60	442	2		
	8693	13	88/01/13	2335:11	2335:46	79	62	455	2		
	8694	14	88/01/14	0741:07	0742:29	174	224	8296	5	4923	
	8695	14	88/01/14	0914:30	0919:10	512	140	10253	2	4925	M1
	8731	14	88/01/14	1335:07	1336:23	317	699	16400	5		I
	8696	14	88/01/14	1458:16	1500:18	347	2157	1.19E+05	8	4925	M1
	8697	14	88/01/14	2149:12	2151:32	441	49	3255	7	4919	
	8701	14	88/01/14	2328:44	2330:14	252	76	1445	2	4925	
	8698	15	88/01/15	0518:49	0518:58	50	67	344	2		
	8699	15	88/01/15	0703:04	0703:23	28	82	300	3		
	8700	15	88/01/15	0707:20	0708:17	114	159	1241	3	4925	
	8702	15	88/01/15	1513:33	1514:45	137	54	380	2	4925	
	8703	15	88/01/15	1643:54	1644:19	52	56	212	3		
	8705	15	88/01/15	1937:02	1937:06	31	47	1214	2		
	8706	15	88/01/15	1938:20	1938:52	49	56	1918	2	4925	
	8704	15	88/01/15	2052:33	2052:48	35	78	1500	3	4925	
	8711	16	88/01/16	2105:30	2107:02	124	63	5197	2	4925	
	8707	17	88/01/17	1338:03	1339:00	119	65	4845	2		
	8708	18	88/01/18	0029:21	0029:47	102	61	4273	2	4927	
	8710	19	88/01/19	2038:30	2039:26	116	1040	68	2	4927	
	8733	20	88/01/20	1920:17	1920:55	79	102	1203	2	4927	I
	8734	22	88/01/22	1129:58	1130:33	64	69	676	2		I
	8712	24	88/01/24	0935:58	0936:10	31	81	1404	9		NS
	8713	24	88/01/24	1104:24	1107:00	189	68	7445	2		
	8714	26	88/01/26	1058:21	1101:24	1047	57	4050	2	4927	
	8715	27	88/01/27	1253:27	1253:47	55	236	1427	4		
	8716	27	88/01/27	2028:13	2028:38	60	61	288	2		
	8718	27	88/01/27	2304:35	2305:00	47	70	312	2	4934	
	8717	27	88/01/27	2326:58	2327:29	69	166	2287	4		
	8719	28	88/01/28	0428:30	0429:09	48	58	290	2		
	8720	28	88/01/28	0605:45	0606:40	181	217	7041	4	4934	
	8721	28	88/01/28	0845:36	0848:18	285	192	9428	2	4934	
	8722	29	88/01/29	0202:32	0202:53	32	95	195	2		
	8723	29	88/01/29	0204:01	0204:11	52	79	365	2		
	8724	30	88/01/30	0513:05	0513:44	125	92	1446	2		
	8725	31	88/01/31	1040:29	1042:18	155	133	3384	5		
	8726	31	88/01/31	1043:23	1044:51	176	132	3962	6		
	8735	32	88/02/01	0048:51	0049:28	48	69	157	2		I
	8729	39	88/02/08	0718:31	0718:50	27	60	91	2		
	8728	39	88/02/08	0834:39	0834:51	30	173	1210	3		
	8730	42	88/02/11	0247:07	0248:11	75	63	513	2	4949	
*	8732	51	88/02/20	0414:42	0414:56	1481	1202	2.75E+05	15	4951	
	8736	60	88/02/29	0954:41	0954:52	53	73	299	3		
	8737	60	88/02/29	1419:19	1419:29	37	66	225	2		
	8757	61	88/03/01	0445:12	0452:59	655	61	2200	2	4954	M1,I
	8738	66	88/03/06	0357:42	0357:55	39	63	217	2		
	8739	67	88/03/07	1222:59	1223:14	21	57	147	2	4957	
	8740	67	88/03/07	1449:23	1449:35	39	185	1831	3	4957	
	12765	70	88/03/10	0340:16	0340:37	32	76	264	15		NS,GB
	8742	71	88/03/11	0127:33	0129:08	180	79	2467	2		
	8815	71	88/03/11	2209:52	2210:08	26	61	273	2		I
	8816	71	88/03/11	2308:59	2309:52	139	70	741	2		I
	8743	72	88/03/12	0226:27	0226:35	20	72	227	2		NS
	8744	72	88/03/12	1023:10	1023:23	30	54	188	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
8745	72	88/03/12	1511:07	1511:42	341	102	4910	4	4964	
8746	73	88/03/13	2106:17	2106:57	96	144	1922	3	4964	
8747	74	88/03/14	0815:59	0816:25	34	98	537	3	4967	
8748	74	88/03/14	1413:04	1413:25	60	81	776	2	4964	
8749	75	88/03/15	0922:21	0926:02	696	557	55810	5	4964	M1
8751	75	88/03/15	1049:39	1049:44	33	67	334	2		
8750	75	88/03/15	1147:00	1151:54	678	944	1.38E+05	7	4964	M1,NS,GB
8752	75	88/03/15	1324:07	1328:13	651	374	10775	6	4964	
8758	76	88/03/16	0054:37	0055:17	110	187	3014	3		
8759	76	88/03/16	0153:36	0153:58	58	73	592	2		
8762	76	88/03/16	0419:24	0419:51	242	426	24834	4		
8831	76	88/03/16	0552:35	0556:52	295	586	46700	3	4964	I ,EN
8763	76	88/03/16	0727:23	0727:49	198	127	3018	3		
8753	76	88/03/16	0945:22	0947:15	395	535	28806	5	4964	
8754	76	88/03/16	0954:42	0954:57	122	82	906	2		
8755	76	88/03/16	1144:25	1144:44	88	57	490	2	4964	
8760	76	88/03/16	1328:55	1329:03	23	78	199	2		
8761	76	88/03/16	1343:05	1344:09	96	55	472	2		
8764	76	88/03/16	1935:03	1935:33	109	182	3900	3	4964	
8765	76	88/03/16	2054:38	2054:46	16	70	148	2		
8766	76	88/03/16	2236:04	2236:36	56	71	359	2		
8767	76	88/03/16	2241:43	2243:30	173	274	6390	6	4964	
8768	77	88/03/17	0026:29	0026:43	41	77	338	2		
8774	77	88/03/17	0205:09	0210:44	354	113	2174	3	4964	
8775	77	88/03/17	0320:47	0321:39	67	72	554	2	4964	
8769	77	88/03/17	0525:30	0527:53	185	151	5915	2	4964	
8770	77	88/03/17	0739:45	0740:00	46	67	352	2	4964	
8771	77	88/03/17	0825:55	0826:25	68	88	727	2		
8772	77	88/03/17	1053:54	1055:26	444	1463	1.62E+05	6		M5
8773	77	88/03/17	1104:43	1105:25	70	66	679	2		
8776	77	88/03/17	1846:20	1847:12	138	81	2405	2	4964	
8777	77	88/03/17	2225:43	2228:19	195	89	2459	2	4964	
8778	77	88/03/17	2338:48	2339:06	256	104	1075	3	4964	
8779	78	88/03/18	0120:53	0121:15	36	88	363	2		
8780	78	88/03/18	0315:53	0316:26	262	66	1051	2	4964	
12766	78	88/03/18	1624:55	1625:02	22	64	271	11		NS,GB
8781	79	88/03/19	2302:44	2302:57	64	70	368	2		
8782	80	88/03/20	1317:51	1319:54	386	195	12339	3		
8783	80	88/03/20	1538:46	1540:39	323	107	8449	2	4964	
8784	81	88/03/21	0015:45	0018:09	310	93	2328	2	4974	M1,IS,DG
8785	81	88/03/21	0130:08	0130:22	32	59	69	2		
8786	81	88/03/21	0132:01	0132:15	35	67	384	2		
8787	81	88/03/21	0911:26	0911:42	33	53	191	2		
8789	82	88/03/22	0707:01	0707:19	55	54	183	2		
8790	82	88/03/22	0713:25	0714:44	129	1604	1352	2		
8791	82	88/03/22	2058:26	2059:04	81	141	1753	3	4964	
8792	83	88/03/23	0151:50	0152:23	54	61	373	2	4964	
8793	83	88/03/23	0232:52	0233:21	59	74	382	2		
8794	83	88/03/23	0544:14	0544:58	77	159	1712	3		
8795	83	88/03/23	1006:11	1006:21	22	90	338	3		
8796	83	88/03/23	1025:49	1026:03	38	73	456	2		
8797	84	88/03/24	0116:50	0117:26	95	83	1173	2		
8798	84	88/03/24	0145:11	0145:45	119	80	1205	2		
8799	84	88/03/24	0331:22	0331:36	27	88	396	2	4964	
8800	84	88/03/24	0936:24	0937:20	134	136	3557	2		
8801	84	88/03/24	1352:17	1354:29	273	68	2137	2	4975	
8802	84	88/03/24	2026:10	2031:00	450	135	5246	3	4964	
8803	84	88/03/24	2139:08	2139:16	31	66	312	2		
8804	84	88/03/24	2139:46	2140:54	502	141	4271	2	4975	
8805	85	88/03/25	0052:49	0053:03	25	144	735	5		
8806	85	88/03/25	0132:08	0136:04	377	90	2378	2		
8807	85	88/03/25	0313:06	0313:55	61	102	792	3		
8808	85	88/03/25	0526:23	0526:27	241	87	3461	2		SN
8809	85	88/03/25	0723:57	0725:44	256	106	2358	2	4975	
8810	85	88/03/25	0846:09	0846:23	263	261	10013	4	4964	
8811	85	88/03/25	2136:49	2138:10	815	547	71476	7		ES
8813	86	88/03/26	0106:40	0106:53	26	72	384	2		
8812	86	88/03/26	0237:59	0238:09	21	196	1203	3	4975	

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	8814	88	88/03/28	0724:05	0724:51	167	82	2095	8		
	8817	91	88/03/31	1123:50	1124:07	35	84	534	2	4975	
	8818	93	88/04/02	0327:57	0328:15	48	96	1115	4		
	8914	93	88/04/02	2046:06	2046:47	107	482	5215	7	4980	I
	8819	94	88/04/03	0438:39	0439:05	59	81	745	2	4975	
	8820	99	88/04/08	0406:50	0407:24	60	63	276	2		
*	8821	100	88/04/09	2116:34	2118:15	178	136	2198	2	4985	
*	8923	102	88/04/11	1347:23	1347:43	209	178	7147	3	4990	I
*	8822	102	88/04/11	1951:57	1952:15	64	69	473	2	4990	
*	8823	102	88/04/11	2148:25	2150:05	455	120	9391	2	4990	
*	8824	103	88/04/12	0837:22	0837:38	64	109	784	2	4985	
*	8825	103	88/04/12	1459:29	1501:29	195	106	3469	3	4990	
*	8826	103	88/04/12	1740:52	1742:32	303	114	4801	3		
*	8827	103	88/04/12	2228:27	2230:17	214	112	1.47E+05	2	4990	ND
*	8828	104	88/04/13	0011:08	0011:43	182	121	2233	3		
*	8829	104	88/04/13	0015:53	0017:06	109	260	3249	3	4990	
*	8830	104	88/04/13	0022:26	0028:44	776	129	12987	2		EN
*	8832	104	88/04/13	1604:18	1604:46	88	268	3810	4	4990	
*	8833	104	88/04/13	1830:36	1832:21	179	168	14725	4	4995	ND
*	8834	104	88/04/13	2005:48	2006:36	913	248	21245	8	4989	M5
*	8835	104	88/04/13	2031:18	2031:22	69	95	1468	2		
*	8836	104	88/04/13	2052:20	2053:13	100	113	1364	2	4990	
*	8837	104	88/04/13	2229:12	2229:19	18	110	146	2		
*	8838	104	88/04/13	2357:06	2358:05	415	121	7029	5		
*	8839	105	88/04/14	0118:17	0118:58	85	211	3817	4		
*	8840	105	88/04/14	0425:58	0436:36	967	120	10706	2		
*	8841	105	88/04/14	0721:54	0722:25	73	111	900	2		
*	8842	105	88/04/14	0923:08	0923:45	99	167	3255	4		
*	8925	105	88/04/14	1213:44	1213:53	76	1548	20200	9		I ,FS
*	8843	105	88/04/14	1357:36	1357:54	49	150	1262	3	4990	
*	8844	105	88/04/14	1456:05	1457:19	138	98	2021	3	4989	
*	8845	105	88/04/14	1935:12	1935:35	43	190	807	5		
*	8846	105	88/04/14	1936:41	1938:16	1487	31060	5.58E+06	15	4990	M5
*	8883	105	88/04/14	1957:46	1958:28	210	636	15500	5		
*	8847	105	88/04/14	2148:00	2150:30	600	111	8271	6		
*	8848	105	88/04/14	2253:41	2254:19	125	163	4684	3	4989	
*	8849	106	88/04/15	0240:15	0240:59	239	2098	60944	11	4995	
*	8926	106	88/04/15	1334:56	1335:30	73	83	682	2		I
*	8850	106	88/04/15	1606:57	1607:17	31	147	871	4		
*	8851	106	88/04/15	1742:18	1742:32	22	83	254	2		
*	8852	106	88/04/15	1751:31	1751:36	16	78	134	3		
*	8853	106	88/04/15	1816:38	1816:49	43	102	787	3		
*	8854	106	88/04/15	1922:19	1923:02	63	87	752	2		
*	8855	106	88/04/15	1936:02	1936:34	58	111	919	2	4990	
*	8856	106	88/04/15	1956:30	1957:55	278	105	3354	3	4992	EN
*	8857	106	88/04/15	2110:43	2118:59	1305	537	1.56E+05	8	4990	
*	8858	106	88/04/15	2253:26	2256:27	709	102	10691	5		
*	8859	107	88/04/16	1240:04	1240:29	46	107	362	2	4990	
*	8860	107	88/04/16	1306:28	1306:49	83	102	1137	3	4995	
*	8861	107	88/04/16	1310:13	1311:01	108	134	2650	3	4995	
*	8862	107	88/04/16	1614:59	1616:31	184	119	2609	3		
*	8863	107	88/04/16	1622:08	1622:27	52	85	756	2		
*	8864	107	88/04/16	1927:54	1928:13	44	111	815	2		
*	8865	107	88/04/16	2033:20	2033:47	45	81	190	2		
*	8866	107	88/04/16	2034:38	2034:54	45	94	468	3		
*	8867	107	88/04/16	2039:55	2041:18	214	239	7952	3		
*	8868	107	88/04/16	2049:50	2050:11	45	109	674	2		
*	8869	107	88/04/16	2102:06	2102:20	43	167	1123	4		
*	8870	107	88/04/16	2209:11	2213:45	447	654	51203	4		
*	8871	107	88/04/16	2226:32	2228:54	266	134	4260	2		
*	8872	108	88/04/17	0100:45	0104:26	352	225	13740	4		
*	8873	108	88/04/17	0312:33	0314:26	164	69	1226	2		
*	8874	108	88/04/17	0428:44	0429:21	536	718	72511	8	4990	M5
*	8875	108	88/04/17	0558:53	0559:11	75	149	2164	3		
*	8876	108	88/04/17	0920:15	0920:47	56	122	1028	2		
*	8877	108	88/04/17	1551:01	1551:16	49	92	538	2	4990	
*	8878	108	88/04/17	1713:35	1716:44	292	127	4611	3	4990	
*	8879	108	88/04/17	2159:18	2210:43	765	350	43493	3	4990	EN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
* 8880	109	88/04/18	0055:21	0101:26	1458	1883	2.22E+05	15	4996	
* 8881	109	88/04/18	0408:41	0411:20	384	158	9629	3		
* 8882	109	88/04/18	0518:54	0524:50	862	655	1.46E+05	4	4990	
* 8884	109	88/04/18	1523:12	1523:39	45	73	602	2		
* 8885	109	88/04/18	1752:25	1752:38	25	87	315	2		
* 8886	109	88/04/18	1754:03	1754:46	93	166	2819	3	4990	
* 8887	109	88/04/18	1814:19	1814:40	41	188	1091	3		
* 8888	109	88/04/18	2001:56	2005:13	398	234	10702	6	4990	
* 8889	109	88/04/18	2052:27	2052:59	47	85	545	2	4996	
* 8890	110	88/04/19	0333:57	0334:20	53	144	917	4		
* 8891	110	88/04/19	0347:25	0347:41	33	92	525	3	4995	
* 8892	110	88/04/19	1855:11	1908:45	2724	631	2.10E+05	11		I ,EN
* 8893	110	88/04/19	2035:04	2039:17	428	178	8765	3	4990	ND
* 8894	111	88/04/20	0118:17	0119:08	129	137	2603	4	4990	
* 8895	111	88/04/20	1034:48	1035:18	1452	79	32400	3	4990	SA
* 8896	111	88/04/20	1416:23	1417:18	93	113	1366	3	4990	
* 8897	111	88/04/20	1558:55	1600:30	177	81	792	2		
* 8898	111	88/04/20	2126:39	2127:57	109	110	1692	3	4990	
* 8899	111	88/04/20	2258:34	2259:01	43	118	973	3	4990	
* 8901	112	88/04/21	0407:44	0408:01	377	102	3823	2		
* 8902	112	88/04/21	0712:34	0715:47	383	97	2402	2	4990	
* 8903	112	88/04/21	1326:08	1326:18	47	140	822	3		
* 8900	112	88/04/21	2317:14	2317:29	35	98	398	2		
* 8904	113	88/04/22	0054:33	0054:39	17	84	230	3		
* 8905	113	88/04/22	1409:12	1413:07	895	401	59484	5	4990	M5
* 8906	113	88/04/22	1748:32	1749:08	108	114	2426	3	4995	
* 8907	113	88/04/22	1933:08	1935:22	194	210	4733	4	4995	
* 8908	114	88/04/23	1648:36	1649:08	128	108	2771	4	4990	SN
* 8909	115	88/04/24	0111:37	0113:40	836	1463	3.14E+05	12	4990	
* 8910	115	88/04/24	1627:01	1627:21	93	128	1871	4		
8911	116	88/04/25	1610:06	1612:11	148	57	982	3		
8912	116	88/04/25	1644:35	1644:56	30	56	221	2		
8913	117	88/04/26	0324:41	0325:09	91	99	959	3	5002	
8915	117	88/04/26	0652:26	0652:36	24	62	90	2		
8916	118	88/04/27	0123:14	0123:20	25	79	316	11		NS
8930	125	88/05/04	0211:11	0213:32	637	204	20800	6	5005	I
8917	125	88/05/04	0236:07	0237:01	293	72	1160	2		DG
8918	126	88/05/05	0521:27	0521:49	58	78	637	2		
8919	127	88/05/06	0509:52	0511:50	122	62	811	2		
8920	127	88/05/06	0814:31	0814:59	115	62	795	2		
8921	127	88/05/06	1123:46	1124:46	195	73	1798	2		
8922	127	88/05/06	1128:13	1128:25	59	68	444	2		
8924	128	88/05/07	0902:08	0902:27	52	111	1242	2		
8927	133	88/05/12	2335:56	2336:23	66	162	1559	3		
8928	138	88/05/17	0526:54	0530:39	317	60	609	2		I
8929	138	88/05/17	1929:56	2016:57	3375	317	85896	7		M5,EN,IS
8931	141	88/05/20	0609:35	0612:31	1045	1236	1.55E+05	7		
8932	141	88/05/20	1236:58	1237:29	43	61	110	2		
8933	142	88/05/21	0114:24	0114:30	39	73	266	2		
8934	143	88/05/22	2149:30	2150:07	150	87	1664	7		
8935	144	88/05/23	0253:41	0258:38	870	78	9742	2	5027	
8936	144	88/05/23	0755:43	0756:18	128	132	2094	2	5027	
8937	144	88/05/23	0932:20	0932:26	18	70	117	3		
8938	144	88/05/23	0933:17	0933:30	51	66	188	2		
8939	144	88/05/23	1505:39	1506:48	252	110	2942	3	5028	
8940	144	88/05/23	1729:23	1731:00	160	113	3506	2	5027	
8941	145	88/05/24	0359:39	0400:43	170	68	1118	2	5027	
8942	145	88/05/24	0549:49	0551:11	162	77	918	2	5027	
8943	145	88/05/24	1331:30	1331:50	53	135	1048	2	5027	
8944	145	88/05/24	1639:15	1639:35	77	65	315	2		
8945	145	88/05/24	2230:39	2232:26	150	92	2081	3	5027	
8946	146	88/05/25	0325:38	0325:49	45	101	745	2	5027	
8947	146	88/05/25	0326:48	0327:55	71	60	309	2		
8948	146	88/05/25	2055:51	2056:26	118	81	1397	2		I ,ND
8949	147	88/05/26	0000:43	0001:01	75	80	1067	2	5027	
8950	147	88/05/26	0014:01	0016:07	191	62	1359	2	5027	
8951	147	88/05/26	0100:06	0102:25	474	514	42663	4	5027	M5
8952	147	88/05/26	0115:40	0116:20	75	74	809	2	5027	

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	8953	147	88/05/26	0255:13	0255:25	32	55	85	2	5027	
	8954	147	88/05/26	0453:18	0454:10	118	63	728	2		
	8955	147	88/05/26	0941:54	0942:02	49	261	2094	3		
	8956	147	88/05/26	1114:11	1114:33	35	99	374	3		
	8957	147	88/05/26	2005:35	2006:15	91	74	631	2		
	8958	148	88/05/27	0541:03	0544:22	358	55	4026	2	5027	
	8959	148	88/05/27	1201:57	1202:01	39	75	287	2		
	8960	148	88/05/27	1203:33	1203:40	17	122	316	2	5027	
	8961	148	88/05/27	1342:26	1347:40	986	1251	1.62E+05	4	5027	M5
	8962	148	88/05/27	2000:00	2000:39	99	145	3678	2	5027	
	8963	148	88/05/27	2311:00	2312:10	171	76	1471	3		
	8964	149	88/05/28	0040:59	0050:23	1065	365	49873	3	5027	M5,EN
	8965	149	88/05/28	0820:06	0822:43	351	180	10167	3	5027	
	8966	149	88/05/28	1322:18	1322:37	76	114	1654	2	5027	
	8967	149	88/05/28	1449:17	1449:45	50	305	3217	4	5027	M5
	8968	150	88/05/29	0449:08	0449:13	25	83	260	15		AX
	8969	150	88/05/29	1515:07	1515:40	45	71	577	2		
	8970	150	88/05/29	1834:27	1835:19	80	76	980	2	5027	
	8971	150	88/05/29	2010:15	2010:37	59	119	940	3	5027	
	8972	151	88/05/30	0106:25	0106:43	76	113	1419	2		
	8973	151	88/05/30	0254:00	0254:14	26	197	897	4		
	8974	151	88/05/30	1503:33	1504:18	129	70	923	2	5027	
	8975	152	88/05/31	0017:30	0019:45	321	90	3986	2	5027	
	8976	152	88/05/31	1417:46	1418:35	193	168	3724	2	5027	
	8977	153	88/06/01	0001:18	0003:05	113	61	581	3		
	8978	153	88/06/01	0122:23	0122:40	45	61	399	2	5032	
	8979	153	88/06/01	2006:46	2007:54	95	67	547	2	5027	
	8980	154	88/06/02	0856:03	0858:59	807	168	17367	2	5027	
	8982	155	88/06/03	0529:57	0530:32	61	63	376	2	5027	
	8981	155	88/06/03	0834:03	0835:50	197	76	1555	2	5027	
	9026	155	88/06/03	1245:23	1245:55	58	1220	12800	6	5031	I
	9030	156	88/06/04	0027:46	0027:57	35	73	192	2		I
	9031	156	88/06/04	0030:17	0030:31	54	68	331	2		I
	9032	156	88/06/04	0254:40	0254:50	18	68	128	2		I
	8983	156	88/06/04	0503:27	0503:40	39	86	703	2		
	8984	156	88/06/04	0614:42	0615:43	234	95	2389	2		
	8985	156	88/06/04	0641:25	0644:52	930	243	43397	3		EN,ND
	8986	156	88/06/04	1229:53	1230:22	49	71	564	2		
	8987	156	88/06/04	1237:41	1238:15	77	70	472	2		
	8990	156	88/06/04	1542:21	1542:29	17	68	147	2		
	8988	156	88/06/04	1551:07	1551:21	29	143	1076	4		
	8991	156	88/06/04	1734:01	1735:06	81	66	591	2		
	8992	156	88/06/04	1921:13	1921:16	11	76	169	4	5032	
	8989	156	88/06/04	2022:39	2022:48	20	100	362	2		
	8993	157	88/06/05	0251:31	0251:37	36	74	412	2		
	8994	157	88/06/05	1404:54	1405:33	70	137	1291	3		
	8995	157	88/06/05	1658:30	1658:51	38	75	395	3		
	8996	157	88/06/05	2005:10	2005:40	783	174	8076	2	5032	
	8997	158	88/06/06	0111:20	0111:32	35	65	263	2		
	8998	158	88/06/06	0214:19	0214:30	22	80	118	2		
*	8999	159	88/06/07	0511:04	0511:23	28	130	406	2		
*	9000	159	88/06/07	0612:11	0612:34	204	154	4528	4	5031	
*	9001	159	88/06/07	0616:13	0616:40	59	128	840	3		
	9002	159	88/06/07	1425:27	1426:21	92	59	558	2	5031	
	9003	160	88/06/08	1103:54	1104:48	85	110	1648	2		
	9004	160	88/06/08	1634:51	1635:35	70	170	1657	3	5032	
*	9005	161	88/06/09	0600:04	0600:18	65	125	639	14		NS,GB
*	9006	161	88/06/09	1017:22	1017:30	24	88	146	2		NS
	9219	161	88/06/09	1651:34	1653:06	133	109	1710	2	5032	I
	9007	162	88/06/10	0957:36	0958:00	47	66	376	2		
*	9008	163	88/06/11	0753:17	0753:23	79	100	451	2	5041	
*	9009	164	88/06/12	1022:43	1023:46	86	96	872	3	5034	I
	9010	167	88/06/15	2232:30	2233:01	721	81	5626	2	5047	
*	9011	168	88/06/16	1238:51	1239:26	85	156	2236	3	5041	
*	9012	168	88/06/16	1325:14	1328:47	666	113	7325	3	5048	
*	9013	169	88/06/17	0341:10	0342:16	90	609	15282	6	5047	
	9014	170	88/06/18	0602:48	0603:45	120	111	2660	2	5047	M5
	9015	170	88/06/18	0608:56	0609:08	128	113	1508	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
* 9016	170	88/06/18	2129:56	2130:14	52	125	478	2	5053	
10547	171	88/06/19	0058:20	0058:38	25	107	300	3	5053	I
* 9017	171	88/06/19	0223:21	0225:02	173	154	3668	3	5041	
* 9018	171	88/06/19	0344:19	0344:27	23	84	93	2		
9019	171	88/06/19	0652:53	0653:00	20	78	215	2	5047	
9020	171	88/06/19	0819:51	0830:01	715	79	1638	3	5047	
* 9247	173	88/06/21	0045:46	0048:22	514	158	11673	3	5047	I
* 9021	173	88/06/21	0219:50	0221:25	178	125	3779	3	5047	
* 9022	173	88/06/21	0238:42	0239:46	121	186	3933	3	5047	
* 9023	173	88/06/21	0310:09	0311:34	510	930	1.02E+05	6	5047	
* 9024	173	88/06/21	0527:36	0527:58	123	109	1603	2	5054	
9025	173	88/06/21	0750:53	0751:10	52	82	469	2	5047	
9027	173	88/06/21	1828:36	1828:38	27	72	190	2		
9028	173	88/06/21	1832:12	1832:39	38	79	268	2	5047	
9033	174	88/06/22	0348:01	0348:13	47	74	498	3	5047	
9029	174	88/06/22	0523:18	0526:30	234	79	1833	2	5047	
9034	174	88/06/22	1909:53	1910:22	54	671	4207	5		
9035	174	88/06/22	2107:48	2108:35	98	101	855	2		
9036	174	88/06/22	2238:56	2242:21	559	166	1.64E+05	6	5047	M5
9037	175	88/06/23	0915:10	0923:05	1499	7694	1.67E+06	8	5047	M5
9038	175	88/06/23	1000:35	1000:41	14	81	121	2		
9039	175	88/06/23	1219:53	1222:18	612	83	7988	6	5047	
9043	176	88/06/24	0142:18	0142:25	23	70	230	2	5051	
9040	176	88/06/24	0306:27	0309:11	261	118	4237	2	5047	
9042	176	88/06/24	0411:57	0412:03	46	62	277	2		
9041	176	88/06/24	0418:14	0424:44	2327	10790	4.13E+06	12	5047	DG
9044	176	88/06/24	0632:28	0632:47	52	595	5366	6		
9045	176	88/06/24	0730:50	0731:58	582	234	18105	2	5047	
9046	176	88/06/24	0857:43	0857:55	159	106	1538	2		
9047	176	88/06/24	1106:52	1107:49	156	76	991	2		
9048	176	88/06/24	1630:53	1630:59	613	105	15343	2	5047	SN
9049	176	88/06/24	1637:07	1637:12	21	149	536	5		
9050	176	88/06/24	1640:48	1647:00	1106	146300	4.56E+07	15	5047	M5,ES
9051	176	88/06/24	1832:27	1837:55	394	123	5595	2		
9052	176	88/06/24	2120:06	2128:35	1479	1593	3.52E+05	4		M5,I
9053	177	88/06/25	0030:54	0035:06	354	81	2840	3		I
9056	177	88/06/25	0212:50	0213:40	584	593	26200	7	5060	I
9060	177	88/06/25	0636:59	0647:14	1733	474	1.29E+05	3		M5,I
9205	177	88/06/25	0731:33	0732:19	215	73	960	2		I
9206	177	88/06/25	0737:05	0737:11	33	51	118	2		I
9061	177	88/06/25	0815:39	0823:19	1307	215	68431	2		I
9207	177	88/06/25	0845:34	0846:05	227	73	1570	2		I
9301	177	88/06/25	1253:16	1256:26	772	181	18259	2	5047	M5,I
9302	177	88/06/25	1744:58	1745:07	23	94	312	2		I
9303	177	88/06/25	1800:31	1800:38	22	184	705	3		I
9304	178	88/06/26	0019:59	0021:04	510	683	30200	7	5060	I
9078	178	88/06/26	0143:29	0144:27	112	69	718	2		
9079	178	88/06/26	0149:51	0150:10	127	78	1150	2		
9062	178	88/06/26	0512:05	0512:12	31	75	230	2		
9063	178	88/06/26	0622:59	0624:03	100	65	791	2		
9064	178	88/06/26	0636:49	0637:07	35	61	281	2		
9065	178	88/06/26	0642:15	0642:22	33	58	124	2		
9066	178	88/06/26	0927:43	0928:02	42	72	570	2		
9067	178	88/06/26	1057:44	1101:58	473	519	31640	10		M5,DG
9068	178	88/06/26	1233:24	1233:31	32	106	454	3	5047	
9069	178	88/06/26	1401:50	1402:39	76	65	371	2	5047	
9070	178	88/06/26	1734:48	1735:43	115	364	7237	4	5047	M5
9071	179	88/06/27	0135:55	0136:25	60	140	1028	2		
9072	179	88/06/27	0247:40	0248:48	255	519	16406	4	5047	M5
9073	179	88/06/27	0301:35	0302:58	578	483	52327	3	5060	
9074	179	88/06/27	0324:52	0325:25	34	63	313	2		
9075	179	88/06/27	0551:27	0551:37	53	70	720	2		M5
9076	179	88/06/27	0555:54	0559:54	425	92	6829	2	5062	
9077	179	88/06/27	0941:06	0942:17	221	123	5526	2	5062	
9080	179	88/06/27	1340:06	1340:21	30	124	634	4		
9353	179	88/06/27	1558:55	1600:41	130	69	1380	2		I ,SA
9081	179	88/06/27	1818:58	1819:40	61	83	1531	2		
9354	179	88/06/27	1951:13	1952:39	243	115	3860	2	5062	I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9355	179	88/06/27	2009:58	2010:23	41	63	235	2		I
9082	179	88/06/27	2134:43	2134:46	49	65	214	2		
9083	179	88/06/27	2301:37	2302:00	197	411	12301	5	5060	M5,FS
9084	179	88/06/27	2339:15	2339:46	67	72	744	2		
9085	179	88/06/27	2355:49	2356:11	44	92	978	2	5062	
9086	180	88/06/28	0119:33	0119:57	46	70	433	2	5060	
9087	180	88/06/28	0202:56	0204:43	214	2793	87	2		M5
9088	180	88/06/28	0338:06	0338:20	32	75	253	2	5060	
9089	180	88/06/28	0347:36	0349:11	308	85	4567	2	5060	
9090	180	88/06/28	0411:20	0411:34	60	68	291	2	5060	
9091	180	88/06/28	0423:02	0423:23	160	71	1008	2	5062	
9092	180	88/06/28	0426:14	0426:35	47	59	195	2		
9093	180	88/06/28	0544:09	0544:43	69	76	528	2		
9094	180	88/06/28	0557:49	0558:05	52	74	497	2	5060	
9095	180	88/06/28	0715:28	0716:23	100	105	2015	3		
9096	180	88/06/28	0739:20	0740:00	86	66	1144	2		
9097	180	88/06/28	0743:41	0743:55	47	55	314	2		
9098	180	88/06/28	0817:22	0823:14	371	533	12716	4	5060	M5,FS
9099	180	88/06/28	0954:42	0956:16	504	2482	1.47E+05	10		DG
9100	180	88/06/28	1032:23	1033:36	326	128	7389	2		
9101	180	88/06/28	1044:22	1045:40	336	185	5637	4	5060	M5
9102	180	88/06/28	1125:41	1126:06	503	456	30906	3	5062	M5
9103	180	88/06/28	1227:16	1227:27	22	54	162	2		
9104	180	88/06/28	1353:33	1355:23	272	873	37690	5		M5
9106	180	88/06/28	1705:00	1705:01	196	123	3788	4	5060	
9107	180	88/06/28	1842:52	1843:00	46	167	808	3		
9105	180	88/06/28	1918:45	1918:56	26	78	319	2	5060	
9108	180	88/06/28	1923:08	1923:18	52	486	2721	5	5060	M5
9109	180	88/06/28	1932:01	1932:18	44	96	774	2	5060	
9110	180	88/06/28	1950:37	1950:58	42	79	363	2		
9111	180	88/06/28	1953:31	1953:38	24	66	119	2	5060	
9112	180	88/06/28	2130:54	2131:13	215	107	3508	2	5062	
9113	180	88/06/28	2225:04	2227:19	819	191	19726	3		
9114	180	88/06/28	2309:07	2309:31	36	59	113	2	5062	
9115	180	88/06/28	2321:04	2321:19	23	79	144	2		
9116	180	88/06/28	2321:59	2322:40	54	86	388	2		
9117	181	88/06/29	0028:45	0029:22	110	377	8179	4	5060	
9118	181	88/06/29	0045:46	0048:22	843	4252	3.69E+05	5	5060	
9119	181	88/06/29	0150:34	0151:02	215	529	13643	5	5060	M5
9120	181	88/06/29	0214:21	0214:58	148	1012	18875	5	5060	
9121	181	88/06/29	0218:49	0219:46	144	104	1883	3	5060	
9122	181	88/06/29	0221:48	0221:54	36	87	344	3	5060	
9123	181	88/06/29	0524:17	0524:23	26	70	242	2		
9124	181	88/06/29	0530:13	0530:31	42	56	250	2		
9125	181	88/06/29	0636:19	0636:40	228	188	4398	3	5060	
9126	181	88/06/29	0748:45	0749:09	453	130	11295	2		
9127	181	88/06/29	0922:53	0923:39	67	91	554	2	5060	
9128	181	88/06/29	1025:59	1026:14	60	94	860	3	5062	
9129	181	88/06/29	1235:22	1236:24	157	96	1790	2		
9130	181	88/06/29	1324:55	1325:19	98	113	1843	2	5062	
9131	181	88/06/29	1419:21	1420:44	123	94	1504	2		
9356	181	88/06/29	1813:51	1814:03	37	85	516	2	5060	I
9132	181	88/06/29	2021:26	2022:36	634	569	73500	4	5060	M5,I ,SN
9133	181	88/06/29	2034:50	2035:52	428	547	29300	3		
9134	181	88/06/29	2055:22	2055:43	129	206	3027	3		
9135	181	88/06/29	2159:40	2200:28	141	80	1956	2	5060	
9136	181	88/06/29	2254:58	2255:54	180	98	2039	2		
9137	182	88/06/30	0004:50	0004:59	28	58	201	3	5062	
9138	182	88/06/30	0104:54	0105:06	20	51	112	2	5060	
9139	182	88/06/30	0120:08	0120:19	20	78	257	2		
9140	182	88/06/30	0131:05	0131:12	30	115	659	3		
9141	182	88/06/30	0239:02	0239:28	48	78	548	2		
9142	182	88/06/30	0418:40	0418:50	20	106	345	3		
9143	182	88/06/30	0504:04	0504:15	30	61	252	2		
9144	182	88/06/30	0754:25	0754:40	35	69	128	2		
9145	182	88/06/30	0755:29	0755:49	41	63	192	2		
9146	182	88/06/30	0819:32	0821:47	303	473	25096	3	5060	M5
9361	182	88/06/30	1250:50	1252:04	375	243	17100	3	5060	M5,I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9147	182	88/06/30	1435:04	1438:22	278	271	6247	4	5060	FS
9148	182	88/06/30	1440:15	1440:26	47	189	1358	3		M5
9149	182	88/06/30	1646:50	1647:20	70	68	657	2		
9150	182	88/06/30	1739:33	1741:01	182	63	1112	3	5060	
9151	182	88/06/30	1845:36	1845:53	36	66	262	2		
9152	183	88/07/01	0000:28	0000:40	28	56	193	2	5062	
9153	183	88/07/01	0051:13	0051:19	12	77	112	2		
9154	183	88/07/01	0215:23	0217:02	120	58	671	3	5060	
9155	183	88/07/01	0252:09	0252:20	48	75	429	2		
9156	183	88/07/01	0400:56	0401:08	36	78	276	2		
9157	183	88/07/01	0418:07	0418:28	42	70	421	2		
9158	183	88/07/01	0426:12	0426:28	71	101	920	2	5060	
9159	183	88/07/01	0434:44	0435:35	64	59	315	3	5060	
9160	183	88/07/01	0547:35	0548:02	46	70	238	2		
9161	183	88/07/01	1040:44	1040:54	24	91	309	3		
9162	183	88/07/01	1541:55	1543:02	274	74	1917	2		
9163	183	88/07/01	2105:31	2106:11	642	132	40000	5	5060	M5,ND
9164	183	88/07/01	2135:46	2136:07	43	130	1189	2	5060	
9165	183	88/07/01	2304:40	2306:11	133	74	969	2		
9166	183	88/07/01	2311:00	2311:51	110	250	3316	5	5060	
9167	183	88/07/01	2315:48	2316:42	100	97	1270	2		
9168	184	88/07/02	0044:28	0101:09	1587	201	80395	3	5060	EN
9172	184	88/07/02	0206:01	0206:03	20	70	234	2		
9169	184	88/07/02	0354:31	0354:37	10	68	94	2		
9170	184	88/07/02	0356:26	0356:39	22	71	280	2		
9173	184	88/07/02	0416:38	0417:41	83	52	426	2		
9174	184	88/07/02	0458:05	0458:15	20	56	154	2		
9171	184	88/07/02	0647:06	0649:10	241	78	1691	2	5060	
9175	184	88/07/02	1329:38	1331:04	216	98	2799	2		
9176	184	88/07/02	1643:14	1643:29	77	78	436	2		
9177	184	88/07/02	2238:04	2238:43	75	79	696	2		
9180	185	88/07/03	1131:30	1131:40	40	64	299	2		
9178	185	88/07/03	1445:19	1445:39	65	70	362	2	5062	
9179	185	88/07/03	1749:20	1749:25	11	74	217	2		
9364	185	88/07/03	2144:39	2146:14	308	503	14900	6	5062	M5,I
9365	185	88/07/03	2221:12	2221:30	44	269	1600	4		I
9366	185	88/07/03	2229:37	2231:49	205	89	2024	3		I
9367	185	88/07/03	2323:14	2323:38	45	79	665	2		I
9181	186	88/07/04	0136:38	0136:53	211	68	890	2		
9362	186	88/07/04	1219:35	1220:15	73	466	725	2	5060	I
9182	186	88/07/04	1846:09	1846:36	90	81	360	2		
9183	187	88/07/05	0328:07	0328:18	58	75	464	2		
9184	187	88/07/05	0519:08	0519:23	36	133	457	2		
9185	187	88/07/05	0557:27	0557:46	42	55	258	2		
9369	187	88/07/05	0842:36	0842:57	77	165	1370	5		I
9186	187	88/07/05	0901:45	0901:56	33	66	195	2		
9187	187	88/07/05	1609:43	1610:14	102	59	456	2	5062	
9188	187	88/07/05	1926:53	1927:34	93	64	528	2	5060	
9189	188	88/07/06	0449:53	0450:54	133	71	1089	2		
9190	188	88/07/06	1257:00	1257:47	60	67	858	2		
9191	188	88/07/06	1526:03	1526:07	15	56	1011	2	5060	M5
9192	188	88/07/06	1616:54	1617:37	57	70	437	2		
9193	188	88/07/06	1929:35	1929:40	18	53	110	2		
9371	188	88/07/06	2021:06	2021:27	26	60	177	2	5062	I
9372	188	88/07/06	2057:37	2057:45	27	51	76	2	5062	I
9194	188	88/07/06	2201:54	2203:04	151	79	1253	3	5062	
9195	188	88/07/06	2228:52	2229:15	37	56	190	2		
9196	189	88/07/07	0557:07	0557:51	713	159	14214	3	5062	M5
9054	189	88/07/07	0801:05	0801:44	140	115	3023	3		
9197	189	88/07/07	1049:40	1050:05	57	76	415	2		
9055	189	88/07/07	2151:57	2152:00	42	70	353	2		
9057	189	88/07/07	2325:06	2325:20	46	94	1150	3		
9059	189	88/07/07	2336:38	2337:49	76	69	388	2		
9058	190	88/07/08	0332:29	0334:47	418	609	46347	6	5060	
9198	190	88/07/08	1150:02	1202:23	1487	1830	2.62E+05	11		M5,SA
9199	190	88/07/08	1602:57	1603:30	122	94	2068	2	5062	SN
9201	190	88/07/08	1644:05	1644:43	60	58	302	2	5062	
9200	190	88/07/08	1749:44	1750:12	131	101	1900	2	5062	

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	9393	191	88/07/09	1317:13	1317:36	25	58	85	2		I
	9394	191	88/07/09	1319:09	1319:14	26	63	138	2	5069	I
	9202	191	88/07/09	2338:54	2340:13	535	472	69999	4		M5
	9203	192	88/07/10	2254:15	0032:21	7152	514	86147	6		M5
	9204	193	88/07/11	0723:51	0724:06	40	63	306	2		
	9208	194	88/07/12	0456:01	0456:29	78	58	367	2		
	9215	194	88/07/12	1912:23	1912:31	29	60	115	2	5073	
	9216	195	88/07/13	0142:46	0142:53	29	57	211	2	5075	
	9209	195	88/07/13	0428:04	0429:36	186	347	54551	5		M5,I ,ND
	9210	195	88/07/13	0446:37	0447:20	60	55	238	2		
	9211	195	88/07/13	0448:04	0448:53	81	60	286	2		
	9212	195	88/07/13	0612:32	0613:16	74	112	1251	4	5071	
	9213	195	88/07/13	0810:43	0810:53	30	96	555	4		
	9214	195	88/07/13	0946:32	0946:53	103	173	2817	4		
	9217	196	88/07/14	1952:10	1952:21	36	78	346	2		
	9218	198	88/07/16	0918:32	0918:44	31	72	293	2		
	9220	198	88/07/16	1544:28	1545:10	85	166	3093	2	5075	
	9221	198	88/07/16	1652:33	1653:34	313	69	2687	2	5076	
	9222	198	88/07/16	2200:55	2201:08	63	62	582	2		
	9223	199	88/07/17	0549:44	0549:55	30	67	305	2		
	9224	199	88/07/17	1056:05	1056:15	57	99	973	3		
	9225	199	88/07/17	1330:43	1332:34	239	219	10686	3	5075	
	9226	199	88/07/17	1943:41	1944:23	112	125	2178	2		
	9230	199	88/07/17	2020:47	2021:11	41	47	153	2		
	9227	200	88/07/18	0014:03	0014:11	23	72	269	2		
	9228	200	88/07/18	0026:16	0026:41	87	118	1804	2	5075	
	9229	200	88/07/18	0029:15	0030:51	110	58	538	2		
	9231	200	88/07/18	0319:05	0319:53	70	77	675	2	5075	
	9232	200	88/07/18	1601:11	1603:17	320	121	6543	2	5075	
	9233	200	88/07/18	1624:56	1626:08	322	2254	62809	8	5075	
	9234	201	88/07/19	0025:41	0027:05	464	232	19531	4	5075	
	9235	201	88/07/19	0142:21	0142:58	106	3527	295	3	5075	
	9236	201	88/07/19	0751:09	0752:58	254	21453	621	5	5075	M5
	9237	201	88/07/19	1210:56	1221:06	897	273	9582	4	5075	M5
	9238	201	88/07/19	1437:49	1438:05	35	59	255	2		
	9239	201	88/07/19	1520:37	1521:01	34	59	301	2		
	9240	201	88/07/19	1552:57	1553:05	82	64	681	2		
	9242	201	88/07/19	2138:54	2139:10	120	52	653	3	5075	
	9243	201	88/07/19	2352:36	2354:05	277	66	1388	2		
	9241	202	88/07/20	0925:08	0927:19	206	141	4758	4	5075	
	9244	202	88/07/20	1843:34	1844:24	76	55	586	2		
	9245	202	88/07/20	1849:03	1849:28	46	53	224	2	5075	
	9246	203	88/07/21	0706:59	0708:11	610	215	4608	4	5075	DG
	12767	203	88/07/21	0820:27	0820:30	33	63	182	15		NS,GB
	9248	204	88/07/22	0154:19	0154:39	150	68	620	2	5075	
	9249	204	88/07/22	1108:56	1114:34	879	286	34000	4	5084	
	9250	204	88/07/22	1301:32	1301:43	56	53	212	2		
	9251	204	88/07/22	1657:28	1657:50	42	71	198	3		SN
	9252	204	88/07/22	1701:08	1701:17	32	100	752	4	5075	
	9254	204	88/07/22	1915:21	1916:35	93	50	452	2		
	9253	204	88/07/22	2214:16	2216:25	185	97	2049	4		
	9255	205	88/07/23	1512:15	1512:57	77	57	368	2	5085	
	9256	205	88/07/23	1821:44	1824:15	179	68	1105	2	5085	
	9449	206	88/07/24	0638:18	0647:16	3031	806	2.54E+05	10		M5,I ,DG
	9257	206	88/07/24	1559:42	1600:16	245	82	2252	2	5087	
	9258	207	88/07/25	0931:16	0932:00	84	59	562	2		
	9259	207	88/07/25	0954:46	0955:20	572	786	46029	7	5075	
*	9260	207	88/07/25	2008:23	2011:00	362	75	3003	2	5084	
	9261	208	88/07/26	0238:43	0239:23	94	66	893	2		
	9262	208	88/07/26	1236:47	1237:19	137	88	1374	3		
	9263	208	88/07/26	1511:09	1511:23	28	43	189	2		
	9264	209	88/07/27	0029:52	0030:01	24	96	249	2		
	9265	209	88/07/27	0156:22	0156:35	52	95	681	2		
	9266	209	88/07/27	0333:37	0335:32	261	90	3280	2		
	9267	209	88/07/27	0956:22	0956:54	81	116	1770	3	5090	
	9268	209	88/07/27	1028:57	1029:10	84	439	10090	6	5092	ND
	9269	209	88/07/27	1118:26	1118:56	89	81	822	2		
	9270	209	88/07/27	1120:50	1121:24	71	69	725	2		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	9271	209	88/07/27	1207:42	1207:45	45	49	244	2	5084	
*	9273	209	88/07/27	1745:50	1748:22	299	272	10892	5		
*	9272	209	88/07/27	1909:08	1909:28	58	85	546	3		
	9274	209	88/07/27	2113:20	2113:35	40	99	676	3		
	9275	210	88/07/28	0007:58	0011:23	391	114	4037	2	5092	
	9276	210	88/07/28	0440:34	0441:06	143	158	4376	3	5092	
	9277	210	88/07/28	0634:44	0635:46	138	65	1241	2	5092	
	9278	210	88/07/28	1009:17	1009:32	32	144	882	3		
	9494	210	88/07/28	1707:59	1708:19	30	47	163	2		I
	9495	210	88/07/28	1722:16	1722:21	57	68	684	2		I
	9496	210	88/07/28	2224:39	2224:53	65	258	2720	5	5095	I
	9513	211	88/07/29	0746:46	0747:27	78	129	1420	3	5084	I
	9514	211	88/07/29	0758:38	0759:16	85	61	344	2		I
	9515	211	88/07/29	0800:47	0801:24	187	207	3670	3	5092	I
	9279	211	88/07/29	1052:19	1052:31	24	63	207	2		
*	9280	211	88/07/29	1348:33	1351:14	404	786	19986	7	5092	
*	9281	211	88/07/29	1508:16	1508:44	45	103	730	2	5092	
*	9282	211	88/07/29	1707:19	1707:48	68	144	2016	4		
	9283	211	88/07/29	2119:12	2122:26	1145	93	18116	3	5092	M5
	9284	212	88/07/30	0233:51	0235:03	148	87	1663	3	5084	
	9285	212	88/07/30	0654:06	0655:09	180	134	4323	2		
	9287	212	88/07/30	0824:56	0825:09	25	52	213	2		
	9286	212	88/07/30	0845:59	0848:19	565	4426	1.50E+05	7	5092	
	9288	212	88/07/30	0952:25	0952:37	22	127	566	2	5090	
	9289	212	88/07/30	1339:19	1339:49	39	48	165	2		
	9290	212	88/07/30	1442:12	1443:13	257	75	2278	4		
	9291	212	88/07/30	2235:44	2236:05	104	66	577	2		
	9292	212	88/07/30	2354:36	2355:07	86	148	2817	3		SN
	9531	213	88/07/31	0343:31	0343:57	60	64	298	2	5090	I
	9532	213	88/07/31	0626:25	0626:29	11	71	103	2		I
	9293	213	88/07/31	0834:45	0834:50	12	166	470	4		
*	9295	213	88/07/31	1312:47	1313:02	78	81	261	2		
*	9294	213	88/07/31	1427:23	1427:33	57	99	896	2		
*	9296	213	88/07/31	1456:18	1456:36	36	118	614	2	5092	
*	9297	213	88/07/31	1600:46	1602:01	160	301	12113	4	5092	
	9298	214	88/08/01	0414:08	0414:34	68	61	472	3	5090	
	9299	214	88/08/01	0540:09	0544:38	457	74	5366	2		SN
	9300	214	88/08/01	0611:22	0624:22	1591	94	22323	2	5092	
	9305	214	88/08/01	1205:00	1205:46	112	157	4053	3		
*	9308	215	88/08/02	1016:06	1016:46	99	100	1834	3		
	9309	216	88/08/03	0223:56	0224:08	24	111	733	2		
	9310	216	88/08/03	0527:01	0527:10	16	74	171	2		
	9311	216	88/08/03	0633:41	0634:17	153	63	865	2	5090	
	9312	216	88/08/03	0644:49	0645:08	37	50	218	2		
	9313	216	88/08/03	0826:47	0827:30	88	61	314	2		
	9314	216	88/08/03	0829:08	0830:30	146	278	6428	7	5085	DG
	9315	216	88/08/03	1005:47	1008:02	593	799	52272	5		M5
	9316	216	88/08/03	1312:22	1312:30	20	55	128	2		
*	9317	216	88/08/03	1549:03	1550:19	429	96	7487	2		
*	9319	216	88/08/03	1739:18	1740:23	110	65	1728	2		
*	9318	216	88/08/03	2027:32	2028:55	628	269	27336	3	5090	
*	9320	217	88/08/04	0551:34	0551:55	37	184	1032	4		
*	9321	217	88/08/04	0947:50	0948:04	25	118	410	3		
*	9322	217	88/08/04	1644:11	1644:27	35	91	929	3		
*	9323	217	88/08/04	2141:01	2141:04	76	88	687	5		
*	9324	217	88/08/04	2144:07	2144:23	54	70	262	3		
*	9325	217	88/08/04	2145:22	2145:31	29	62	152	2		
*	9326	218	88/08/05	1142:59	1143:22	38	58	206	2		
*	9327	219	88/08/06	0202:46	0202:55	55	65	294	2		
*	9328	219	88/08/06	0520:06	0521:20	114	91	1106	4		
*	9329	219	88/08/06	0813:40	0814:29	104	58	612	2		
	9595	219	88/08/06	1903:33	1903:40	23	61	203	10	5092	I ,NS,GB
*	9330	220	88/08/07	0746:06	0746:24	29	66	227	2		
*	9331	220	88/08/07	0816:23	0816:32	29	70	214	2	5092	
*	9332	220	88/08/07	1515:14	1516:45	242	1176	31811	7	5092	M5
*	9333	220	88/08/07	1658:27	1658:30	26	62	262	2		
*	9334	220	88/08/07	2006:31	2006:45	39	122	560	2		
*	9335	220	88/08/07	2306:06	2306:19	34	93	444	3		

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*	9336	220	88/08/07	2353:21	2353:42	37	107	1253	2		IS
*	9337	221	88/08/08	0046:56	0047:05	17	63	141	2		
*	9338	221	88/08/08	0127:51	0127:59	21	94	389	3	5092	
*	9339	221	88/08/08	0225:20	0226:23	88	59	554	2		
	9606	221	88/08/08	0709:03	0709:42	109	86	2170	2		I
	9607	221	88/08/08	2105:37	2105:55	43	74	387	2		I
	9608	221	88/08/08	2136:15	2137:10	117	101	1580	2		I
*	9340	222	88/08/09	0226:16	0226:34	389	70	5202	7		M5
*	9341	222	88/08/09	0534:42	0535:01	53	130	1230	2		
*	9342	222	88/08/09	0635:08	0636:38	561	291	24071	4		
*	9344	222	88/08/09	1113:10	1113:35	73	109	1565	3		
*	9343	222	88/08/09	1430:43	1430:59	26	61	237	2		
*	9345	222	88/08/09	1553:38	1554:06	54	62	380	2		
*	9346	222	88/08/09	2234:59	2235:07	32	61	137	2		
*	9347	223	88/08/10	0256:54	0257:15	70	73	742	2		
*	9348	223	88/08/10	0736:31	0740:11	2474	300	83801	4	5101	
	9616	223	88/08/10	0907:25	0907:39	35	101	487	3		I
*	9349	223	88/08/10	0911:19	0912:41	481	332	16481	4	5106	M5
*	9350	225	88/08/12	0939:54	0940:20	43	166	1577	4		
*	9351	226	88/08/13	1831:53	1832:05	18	50	74	2	5106	
*	9352	228	88/08/15	0154:02	0154:23	84	59	656	2	5106	
*	9357	228	88/08/15	2043:05	2043:35	52	79	708	2	5105	
*	9358	229	88/08/16	0142:28	0142:56	44	244	3155	6		
	9698	230	88/08/17	0010:01	0010:36	102	81	1710	2	5108	I
*	9360	230	88/08/17	0606:06	0606:34	52	57	378	2	5105	
	9359	230	88/08/17	1404:53	1405:23	53	82	670	2	5106	
	9363	235	88/08/22	2157:25	2158:08	256	72	3564	5		M5
	9368	236	88/08/23	1406:07	1406:25	133	76	1120	2		
	9373	236	88/08/23	1656:39	1726:57	2433	89	21689	4		I ,IS
	9370	236	88/08/23	2004:25	2006:17	271	754	27948	7		M5
	9374	238	88/08/25	0217:45	0217:51	23	65	237	2	5126	
	9375	238	88/08/25	2019:48	2021:40	317	91	5397	4		AX
	9376	239	88/08/26	0135:55	0136:06	63	71	684	2	5126	
	9377	239	88/08/26	0446:14	0446:42	167	71	1225	3	5129	
	9378	239	88/08/26	0617:53	0617:59	57	78	589	5		IN
	9379	239	88/08/26	1115:19	1120:15	490	153	23904	5		
	9380	240	88/08/27	1158:36	1159:02	150	207	6590	3	5131	I
	9381	240	88/08/27	2300:08	2301:11	109	60	794	2		
	9382	241	88/08/28	1410:32	1411:08	49	59	200	2	5131	
	9383	242	88/08/29	0946:25	0948:24	300	555	22633	4	5131	M5
	9384	242	88/08/29	1104:28	1104:56	125	63	927	2		
	9385	242	88/08/29	1543:28	1548:44	667	348	28445	3	5131	M5
	9386	242	88/08/29	1603:27	1603:49	48	53	291	2		
	9387	242	88/08/29	1820:36	1821:31	179	101	3104	2	5131	
	9390	243	88/08/30	1344:45	1347:42	569	211	19642	4	5131	
	9388	243	88/08/30	1812:54	1814:00	166	187	738	2	5115	
	9389	243	88/08/30	2114:33	2114:57	45	224	1036	4		
	9391	244	88/08/31	0458:44	0459:17	69	75	428	2	5128	
	9392	244	88/08/31	0507:32	0509:23	230	68	1806	2	5128	
	9395	244	88/08/31	1418:43	1419:12	40	61	244	2		
	9396	244	88/08/31	1432:39	1432:50	21	55	101	2		
	9397	244	88/08/31	2025:27	2027:19	211	80	3769	5		
	9398	244	88/08/31	2100:27	2101:07	55	80	778	2		
	9399	244	88/08/31	2111:35	2112:02	41	111	917	2	5131	
	9400	244	88/08/31	2344:30	2344:42	75	55	201	3		
	9401	245	88/09/01	0248:35	0248:46	104	82	1455	2		
	9402	245	88/09/01	0252:43	0252:57	42	154	1716	4	5131	
	9403	245	88/09/01	0947:44	0947:56	40	90	607	2		
	9404	245	88/09/01	1725:33	1725:52	29	60	334	2		
	9405	245	88/09/01	1836:36	1839:58	506	61	2697	2	5128	
	9406	245	88/09/01	2051:17	2051:29	18	209	1163	4		
	9699	246	88/09/02	1040:38	1041:07	115	64	429	2		I
	9407	246	88/09/02	1401:07	1401:24	40	74	387	2		
	9408	246	88/09/02	1517:07	1519:14	206	142	5413	2	5131	
	9409	246	88/09/02	2247:04	2247:51	83	52	382	2		
	9410	247	88/09/03	0145:57	0146:03	12	57	88	2		
	9411	247	88/09/03	0529:05	0529:29	49	147	1158	3	5131	
	9412	247	88/09/03	0531:53	0532:45	109	98	928	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9413	247	88/09/03	0537:36	0538:37	92	63	503	2		
9414	247	88/09/03	0704:08	0708:12	783	90	9588	2		
9418	247	88/09/03	1317:15	1319:21	229	92	2928	2	5131	
9415	247	88/09/03	1617:17	1617:35	70	94	918	2	5131	
9416	248	88/09/04	0643:10	0643:34	44	61	250	2		
9417	248	88/09/04	1349:45	1350:01	34	56	219	2		
9419	248	88/09/04	1835:47	1836:05	97	61	818	2		
9420	248	88/09/04	1844:32	1844:47	22	101	373	2		
9421	248	88/09/04	1845:40	1845:52	25	55	154	2		
9422	248	88/09/04	1847:30	1848:19	67	58	511	2		
9423	249	88/09/05	1811:58	1812:44	312	66	2235	2		
9424	250	88/09/06	0016:03	0016:28	58	105	1248	2	5131	
9425	250	88/09/06	0030:03	0030:06	16	52	65	2		
9426	250	88/09/06	1437:16	1437:38	45	74	482	2		
9427	250	88/09/06	1450:43	1451:01	66	78	760	2	5131	
9428	250	88/09/06	1551:27	1552:02	78	95	1015	3		
9704	250	88/09/06	1915:42	1916:19	82	56	451	2		I
9429	250	88/09/06	2239:47	2240:05	142	76	1033	2		
9430	251	88/09/07	1104:29	1104:37	60	241	5167	4		DG,ND
9431	251	88/09/07	1127:06	1127:36	85	71	805	2		
9432	251	88/09/07	1217:23	1218:10	83	205	5967	4		ND
9433	251	88/09/07	1733:43	1734:20	58	59	453	2		
9705	252	88/09/08	1231:46	1235:03	311	222	11100	4	5131	I
9706	252	88/09/08	1321:17	1321:25	50	53	224	2		I
9707	252	88/09/08	1541:38	1541:56	53	54	274	2		I
9434	252	88/09/08	1839:52	1841:24	188	725	46362	6	5131	ES
9435	252	88/09/08	2316:24	2317:12	94	62	830	2		
9436	253	88/09/09	0643:47	0644:29	100	63	617	2		
9437	253	88/09/09	2056:42	2057:47	112	63	788	2	5143	
9438	254	88/09/10	1534:25	1536:05	250	60	1576	2		
9439	255	88/09/11	0102:12	0102:36	42	208	1288	4		
9440	255	88/09/11	0102:59	0103:06	20	122	456	4		
9441	255	88/09/11	1147:08	1147:40	112	63	780	2	5148	
9442	256	88/09/12	0717:45	0718:13	215	125	3226	3	5148	
9443	256	88/09/12	1252:14	1252:27	33	61	307	4		
9444	256	88/09/12	1734:59	1735:22	65	65	307	2	5148	
9445	256	88/09/12	2048:08	2051:14	273	68	1117	2	5148	
9446	257	88/09/13	0752:49	0753:46	1663	211	13715	4	5148	DG
9447	257	88/09/13	1055:58	1056:03	36	62	258	2	5142	
9448	258	88/09/14	0104:50	0105:04	22	71	164	2		
9450	261	88/09/17	1359:26	1359:41	108	453	3226	6		
9451	261	88/09/17	2303:48	2304:01	17	65	126	2		
9734	262	88/09/18	0841:40	0842:04	69	51	205	2		I
9452	263	88/09/19	1101:04	1102:17	423	979	70109	10	5159	
9453	263	88/09/19	1714:50	1715:20	146	85	1769	2		
9454	263	88/09/19	2140:41	2142:47	264	172	6642	4	5159	M5
9455	264	88/09/20	0222:59	0223:51	336	375	8291	3	5159	
9743	264	88/09/20	0241:46	0242:23	56	62	186	2		I
9456	264	88/09/20	0610:41	0611:53	185	62	946	2		
9744	264	88/09/20	1223:30	1223:47	39	62	270	2		I
9457	264	88/09/20	1416:33	1416:57	41	65	392	2	5158	
9458	265	88/09/21	0701:02	0701:15	23	69	247	2		
9459	265	88/09/21	2056:50	2057:11	92	116	1684	3	5156	
9759	266	88/09/22	0146:34	0146:46	32	130	931	3		I
9460	266	88/09/22	0309:28	0309:39	133	68	1155	2	5159	
9461	266	88/09/22	0330:41	0330:53	42	80	626	2		
9463	266	88/09/22	0736:35	0736:52	39	55	271	2		
9462	266	88/09/22	0804:15	0806:40	583	685	36713	6	5159	M5
9464	266	88/09/22	0951:29	0951:38	16	61	132	2		
9465	266	88/09/22	1119:25	1121:47	226	273	10972	3	5156	
9466	266	88/09/22	1358:43	1400:10	106	59	784	2	5156	
9468	266	88/09/22	2015:33	2018:04	360	63	2581	2		
9469	266	88/09/22	2030:19	2030:44	178	59	846	2		
9470	267	88/09/23	0052:02	0053:17	136	60	917	2	5159	
9471	267	88/09/23	0423:02	0423:22	52	56	222	2		
9467	267	88/09/23	0851:26	0852:31	319	156	11318	3	5159	
9472	267	88/09/23	1338:09	1338:23	24	51	216	2		
9473	268	88/09/24	1340:55	1342:20	169	286	10046	3	5156	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9474	269	88/09/25	0022:00	0037:11	1068	2499	5.06E+05	13	5169	EG,DG
9760	269	88/09/25	0154:00	0154:24	55	69	314	3		I
9478	269	88/09/25	1905:57	1906:00	55	58	279	2	5168	
9475	269	88/09/25	2156:31	2157:20	96	66	781	3	5164	
9476	269	88/09/25	2205:33	2205:47	118	77	653	2	5164	
9477	270	88/09/26	0736:56	0737:26	34	62	291	2		
9482	270	88/09/26	1817:10	1817:15	20	89	269	4	5168	
9483	270	88/09/26	2118:13	2118:19	21	65	143	2	5168	
12768	271	88/09/27	0335:33	0335:38	41	51	188	11		NS,GB
9479	271	88/09/27	0638:54	0641:06	286	127	5623	2		
9480	271	88/09/27	0713:40	0714:37	370	94	5193	2	5171	
9481	271	88/09/27	0720:44	0720:52	14	204	611	4		M5
9484	271	88/09/27	0848:27	0850:01	181	278	7224	3	5171	
9485	271	88/09/27	0951:24	0952:46	118	383	7945	4	5171	IS
9486	271	88/09/27	1122:54	1123:05	22	87	496	2	5168	
9487	271	88/09/27	1601:07	1613:35	1204	3485	8.36E+05	13	5171	M5,IS
9489	271	88/09/27	1931:53	1932:02	33	62	198	2		
9488	271	88/09/27	1939:25	1940:03	140	439	8954	4	5171	M5,IS
9490	272	88/09/28	0625:06	0625:28	31	59	250	2		
9491	272	88/09/28	1901:13	1902:07	218	102	3600	2	5171	
9492	272	88/09/28	2317:04	2317:20	3441	128	33344	6	5171	M5,SN
9493	273	88/09/29	0554:33	0555:43	819	85	9647	2	5171	
9807	274	88/09/30	1755:42	1756:13	42	71	314	4		I
9497	274	88/09/30	1907:10	1907:29	1097	192	52992	2	5171	M5,SN,DG
9498	275	88/10/01	0006:46	0007:55	78	53	377	2		
9499	275	88/10/01	0009:34	0010:45	121	58	542	2		
9500	275	88/10/01	0014:03	0014:57	95	108	611	2	5166	
9501	275	88/10/01	0447:41	0448:06	62	66	397	2		
9502	275	88/10/01	1002:31	1003:26	278	109	5075	2	5171	
9503	275	88/10/01	1126:54	1127:30	89	100	1340	2	5171	
9808	275	88/10/01	1304:18	1305:00	100	76	1320	2		I
9809	275	88/10/01	1307:04	1308:30	316	79	2720	2		I
9504	275	88/10/01	1932:45	1933:47	105	151	4436	3	5171	
9505	275	88/10/01	2229:33	2229:55	94	63	795	2	5174	
9506	275	88/10/01	2324:36	2325:17	102	68	658	2		
9507	276	88/10/02	0051:47	0051:53	197	375	7878	4	5171	SN
9508	276	88/10/02	0056:51	0057:33	59	63	411	2		
9509	276	88/10/02	0135:31	0136:50	239	121	3157	2		
9510	276	88/10/02	0414:45	0425:03	800	787	89252	6	5171	M5
9511	276	88/10/02	0441:13	0442:40	140	79	1572	2		
9512	276	88/10/02	0546:25	0546:36	19	85	208	2		
9819	277	88/10/03	0524:40	0526:23	449	1325	40000	5	5171	M5,I
9820	277	88/10/03	0547:07	0547:20	70	60	614	2		I
9821	277	88/10/03	1339:29	1339:33	13	71	143	2	5171	I
9516	277	88/10/03	1511:14	1511:18	786	52070	5.22E+06	15	5171	M5,EN,SA
9517	277	88/10/03	1607:53	1608:27	40	93	541	2	5171	
9518	277	88/10/03	1612:58	1613:08	32	75	224	2	5171	
9822	277	88/10/03	1751:09	1751:57	133	62	419	2		I
9519	277	88/10/03	1912:38	1913:00	467	1230	39925	6	5171	M5
9520	277	88/10/03	1958:47	1959:00	46	59	217	2		
9521	277	88/10/03	2052:51	2054:23	761	965	72650	5	5168	
9522	277	88/10/03	2228:44	2230:12	700	233	41817	4	5171	DG,ND
9523	277	88/10/03	2241:24	2242:43	156	104	3409	2		
9524	277	88/10/03	2356:32	2356:41	18	52	107	2	5171	
9526	278	88/10/04	0019:43	0019:49	12	46	56	2		
9525	278	88/10/04	0257:22	0257:44	1028	157	18496	4	5171	M5
9824	278	88/10/04	0505:57	0506:04	11	69	152	2		I
9528	278	88/10/04	1537:21	1537:31	37	78	335	2		
9529	278	88/10/04	2046:46	2046:55	21	65	93	2	5175	
9530	279	88/10/05	0438:54	0439:37	123	52	557	2		
9527	279	88/10/05	0613:27	0616:01	713	1098	2.13E+05	7	5171	M5
9533	279	88/10/05	1331:12	1331:22	39	61	174	2		
9534	279	88/10/05	1418:33	1419:19	167	152	4441	4		
9535	279	88/10/05	2005:20	2005:22	33	58	164	2		
9536	279	88/10/05	2035:42	2035:55	17	47	101	2		
9537	279	88/10/05	2135:44	2138:24	753	139	5596	3	5171	
9538	279	88/10/05	2305:58	2306:20	42	58	189	2		
9539	280	88/10/06	0102:04	0102:27	134	83	2102	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9541	280	88/10/06	0531:59	0533:19	137	136	2265	10		NS,GB
9540	280	88/10/06	1521:09	1522:31	169	230	9192	4	5178	
9542	280	88/10/06	1756:28	1756:37	33	81	402	3		
9543	280	88/10/06	1916:44	1917:37	108	73	1150	3	5177	
9828	280	88/10/06	2127:35	2127:42	12	50	53	2		I
9544	280	88/10/06	2240:53	2242:23	186	77	2014	2	5175	
9545	281	88/10/07	0445:35	0445:38	157	120	4098	6		SA
9546	281	88/10/07	0508:36	0509:08	110	76	1559	3		
9547	281	88/10/07	0701:17	0701:33	25	54	150	2		
9548	281	88/10/07	0817:18	0818:59	226	82	3222	3		
9549	281	88/10/07	0821:44	0823:26	159	128	5709	3		
9550	281	88/10/07	1840:56	1842:24	131	71	900	2	5175	
9551	281	88/10/07	2049:19	2049:31	126	90	536	2	5179	
9552	282	88/10/08	0417:45	0418:01	29	62	85	2		
9553	282	88/10/08	0921:49	0922:10	43	62	488	4		
9554	282	88/10/08	2149:42	2153:52	686	92	5127	3	5171	
9555	283	88/10/09	0548:28	0548:36	14	60	120	2		
9556	283	88/10/09	2258:13	2258:30	45	51	233	2	5175	
9557	283	88/10/09	2348:43	2349:33	328	212	18807	2		SN
9558	284	88/10/10	0821:23	0821:28	20	56	99	2		
9559	284	88/10/10	1612:59	1614:38	183	243	6187	4		
9560	284	88/10/10	1756:03	1758:02	136	66	1172	2		IN
9561	284	88/10/10	1835:03	1835:20	815	101	13828	2		IN
9562	284	88/10/10	2319:41	2320:14	81	78	255	2		
9563	285	88/10/11	0007:20	0010:04	336	91	5962	8		AX
9564	285	88/10/11	2031:58	2032:22	35	152	841	4	5175	
9565	285	88/10/11	2033:35	2033:54	35	72	321	4		
9566	286	88/10/12	0211:47	0211:58	16	62	126	2		
9567	286	88/10/12	0415:34	0416:18	85	1008	8729	7		M5
9568	286	88/10/12	0418:58	0420:40	154	65	891	2		
9569	286	88/10/12	0516:00	0516:01	1378	859	3.05E+05	7	5175	M5,SA
9570	286	88/10/12	1038:07	1038:17	22	215	632	3		
9571	286	88/10/12	1203:48	1203:59	44	56	283	2		
9572	286	88/10/12	1207:07	1209:08	345	683	22830	7		
9845	286	88/10/12	1508:16	1508:39	34	56	31	2		I
9846	286	88/10/12	1510:56	1511:03	20	62	78	2		I
9573	287	88/10/13	0132:30	0132:35	76	82	674	2		
9574	287	88/10/13	0638:04	0638:19	58	58	386	2	5179	
9575	287	88/10/13	1251:16	1251:32	56	71	603	2		
9576	287	88/10/13	1304:29	1305:23	67	64	331	2		
9577	287	88/10/13	1752:25	1752:59	42	61	366	2		
9578	287	88/10/13	2025:44	2030:47	2193	11200	1.07E+06	15		
9579	287	88/10/13	2338:47	2338:56	84	92	852	3		
9580	288	88/10/14	0240:45	0241:30	79	95	1025	2		
9581	288	88/10/14	0731:13	0731:29	36	67	270	2		
9582	288	88/10/14	1507:18	1507:27	37	52	145	3		
9583	288	88/10/14	1847:05	1847:22	63	50	303	2		
9584	288	88/10/14	2004:15	2004:38	42	65	355	2		
9585	289	88/10/15	2037:18	2038:30	244	74	3239	4	5193	
9586	290	88/10/16	0525:03	0525:12	14	116	553	15		EN,NS,GB
9587	290	88/10/16	1522:35	1523:16	174	101	3834	2		
9588	290	88/10/16	2042:53	2044:35	373	240	17939	2	5200	
9589	291	88/10/17	0404:53	0423:13	2789	279	1.67E+05	4		M5
9590	291	88/10/17	0557:06	0557:57	327	62	1330	2		
9591	291	88/10/17	0618:38	0618:56	175	67	1080	2		
9592	291	88/10/17	0624:37	0624:41	66	55	157	2		
9593	291	88/10/17	0751:36	0753:35	305	830	19880	6		
9594	291	88/10/17	0928:27	0928:47	45	57	305	2		
9847	291	88/10/17	1046:53	1047:44	199	125	4469	2		I
9848	291	88/10/17	1052:46	1053:22	66	75	953	2		I
9849	291	88/10/17	1101:30	1103:07	138	71	1180	2		I
9851	291	88/10/17	1408:08	1408:59	260	121	5410	2		I
9853	291	88/10/17	1542:04	1544:38	420	779	79757	4		I
9596	291	88/10/17	1624:29	1625:42	95	54	560	2		SN
9597	291	88/10/17	1704:44	1705:02	39	83	639	5		
9598	291	88/10/17	2010:51	2018:03	653	65	4004	2	5193	
9599	291	88/10/17	2108:16	2109:21	117	82	2116	6		
9600	292	88/10/18	0033:41	0034:54	467	3513	1.08E+05	6	5200	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9601	292	88/10/18	0223:53	0223:58	20	49	110	2	5200	
9602	292	88/10/18	0526:36	0527:00	59	59	340	2		
9603	292	88/10/18	0540:37	0540:55	98	70	801	3	5200	
9604	292	88/10/18	0829:23	0829:52	88	99	1055	2		
9605	292	88/10/18	1021:11	1021:49	55	51	177	2		
9609	292	88/10/18	1113:48	1114:02	45	70	724	2		IS
9610	292	88/10/18	1142:59	1143:13	30	90	557	3		
9611	292	88/10/18	1154:05	1156:03	167	147	2695	3	5190	
9862	292	88/10/18	1249:39	1250:01	68	85	372	2	5190	I
9612	292	88/10/18	1554:01	1554:30	44	68	553	2	5190	
9613	292	88/10/18	1941:02	1943:20	185	79	1884	2	5200	
9615	293	88/10/19	0326:15	0326:40	41	51	204	2		
9614	293	88/10/19	1000:26	1002:35	208	65	1393	2		
9617	293	88/10/19	1255:03	1256:09	240	403	12348	7	5184	
9618	293	88/10/19	1349:45	1350:02	51	69	587	2		
9619	293	88/10/19	1900:15	1905:47	1094	194	47788	3	5200	
9620	293	88/10/19	2007:23	2007:41	80	72	1081	2		
9621	293	88/10/19	2021:59	2022:12	22	51	156	2		
9622	293	88/10/19	2050:17	2051:07	114	721	13286	7	5200	
9623	293	88/10/19	2052:39	2054:02	187	180	3172	3		
9624	293	88/10/19	2147:46	2148:06	28	62	303	2		
9625	293	88/10/19	2206:42	2211:48	1198	619	56085	6	5200	M5
9626	293	88/10/19	2309:44	2310:41	272	236	6941	3		
9627	293	88/10/19	2317:34	2318:09	55	55	498	2		
9628	294	88/10/20	0050:19	0050:43	59	63	550	2	5193	
9629	294	88/10/20	0116:58	0117:43	75	265	3170	6		M5
9630	294	88/10/20	0620:12	0620:43	250	68	3840	2		ND
12769	294	88/10/20	1100:12	1100:43	36	58	522	9		ND,NS,GB
9631	294	88/10/20	1525:45	1526:21	152	1802	42536	8		
9852	294	88/10/20	1851:56	1851:57	21	48	599	2		I ,ND
9632	294	88/10/20	2257:33	2257:41	21	61	164	2		
9633	294	88/10/20	2307:01	2307:26	45	53	262	2	5200	
9634	295	88/10/21	0216:26	0217:01	74	83	1081	2	5200	
9635	295	88/10/21	0330:38	0330:44	24	63	144	2		
9636	295	88/10/21	1116:44	1117:09	45	89	674	2		
9637	296	88/10/22	0753:19	0753:35	28	62	146	2		
9638	296	88/10/22	1231:40	1232:10	101	245	4249	5		
9639	296	88/10/22	1540:13	1540:24	19	82	240	2		
9640	296	88/10/22	1747:29	1747:55	82	186	726	4	5200	
9641	296	88/10/22	1826:18	1826:31	51	75	775	3	5200	
9642	296	88/10/22	2020:13	2020:25	39	61	388	2	5200	
9643	296	88/10/22	2316:03	2316:40	146	2551	60314	11	5200	
9644	297	88/10/23	0552:22	0552:43	46	214	2330	5		
9645	297	88/10/23	0554:48	0555:41	166	491	14037	5	5200	
9646	297	88/10/23	0720:07	0720:20	40	236	2005	5		
9647	297	88/10/23	0740:14	0740:34	37	81	593	3		
9648	297	88/10/23	0915:50	0915:54	11	64	208	2		
9649	297	88/10/23	1031:45	1032:01	90	137	1238	2		
9650	297	88/10/23	1046:28	1047:51	143	54	534	2		
9651	297	88/10/23	1102:36	1104:29	193	588	12182	5	5200	
9652	297	88/10/23	1139:54	1140:11	43	417	1786	5		
9865	297	88/10/23	1218:52	1220:28	239	64	1330	2		I
9653	297	88/10/23	1334:40	1334:57	42	60	245	2		
9654	297	88/10/23	1402:11	1402:55	83	78	500	2		
9655	297	88/10/23	1408:26	1408:39	28	46	131	2		
9656	297	88/10/23	1409:54	1410:14	32	62	373	2		
9657	297	88/10/23	1459:07	1500:01	127	97	2078	2	5200	
9658	297	88/10/23	1628:07	1630:38	256	50	1109	2	5200	
9659	297	88/10/23	1703:43	1704:00	27	74	264	2		
9660	297	88/10/23	2009:56	2010:25	64	97	1227	2		
9661	297	88/10/23	2329:57	2331:07	114	54	494	2	5200	
9662	298	88/10/24	0046:56	0047:06	60	326	6255	5	5200	
9663	298	88/10/24	0049:27	0050:01	82	427	4533	4		
9664	298	88/10/24	1111:26	1112:27	111	89	1275	2		
9665	298	88/10/24	1157:05	1157:54	86	210	5228	5	5200	
9666	298	88/10/24	1602:21	1603:13	153	831	25954	5	5200	
9667	298	88/10/24	2115:16	2115:43	108	301	3845	4		
9714	298	88/10/24	2205:20	2205:24	27	214	1075	15		NS,GB

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9668	299	88/10/25	0342:58	0343:04	40	93	798	2		
9669	299	88/10/25	0427:17	0428:03	68	336	3560	4		M5
9670	299	88/10/25	0612:42	0612:48	22	54	85	2		
9671	299	88/10/25	1108:50	1109:01	30	113	740	3		
9672	299	88/10/25	1235:07	1235:13	21	62	89	2		
9673	299	88/10/25	1657:51	1658:19	67	59	524	2		
9674	299	88/10/25	1748:47	1749:03	43	56	262	2		
9675	299	88/10/25	1750:36	1750:54	47	53	114	2		
9676	299	88/10/25	1852:14	1852:25	30	58	304	2		
9677	299	88/10/25	1911:01	1911:30	48	231	3341	4	5200	IS
9678	302	88/10/28	0120:05	0122:11	267	717	19918	5		M5
9679	302	88/10/28	0136:07	0136:48	63	72	614	2		
9680	302	88/10/28	0804:59	0805:16	70	68	436	2	5200	
9681	302	88/10/28	1827:27	1827:38	31	68	361	2		
9682	302	88/10/28	2339:09	2339:29	106	883	10850	6	5212	
9683	303	88/10/29	0235:15	0235:24	13	80	219	2		
9684	303	88/10/29	0244:02	0244:24	77	200	3168	5		
9685	303	88/10/29	0247:12	0247:20	144	708	7385	5	5212	
9686	303	88/10/29	0407:55	0409:55	660	71	6256	2		
9687	303	88/10/29	1004:55	1005:27	50	64	539	2		
9695	303	88/10/29	1638:26	1639:36	168	76	1967	2	5212	DG
9688	303	88/10/29	1652:17	1652:40	48	134	1332	2	5212	
9689	303	88/10/29	2304:40	2305:31	101	122	2138	2	5212	
9690	303	88/10/29	2310:54	2311:04	23	82	458	2		
9691	304	88/10/30	0454:01	0455:32	164	142	3526	2	5200	M5
9692	304	88/10/30	0534:08	0534:15	55	57	367	2		
9693	304	88/10/30	0626:37	0626:46	14	69	123	2		
9694	304	88/10/30	0701:05	0701:29	104	498	5927	5	5200	
9696	304	88/10/30	1200:53	1201:07	55	83	604	2		
9697	305	88/10/31	0204:46	0204:52	35	62	260	2		
9700	306	88/11/01	0703:16	0703:25	21	81	337	2		
9701	306	88/11/01	1056:32	1058:15	125	3144	95302	10	5218	EN
9702	307	88/11/02	0847:08	0847:31	43	67	401	2	5218	
9703	307	88/11/02	0955:59	0956:26	303	233	9163	4	5212	
9708	307	88/11/02	1152:17	1153:27	220	304	12395	4		
9709	307	88/11/02	1249:38	1250:09	59	75	596	2		
9710	307	88/11/02	1410:13	1410:39	113	129	2381	3		
9711	307	88/11/02	1742:35	1742:46	29	80	243	2		
9712	308	88/11/03	0009:16	0011:59	491	257	7454	6	5218	
9713	308	88/11/03	0438:59	0439:06	25	65	197	2		
9715	308	88/11/03	2340:54	2341:17	35	63	151	2		
9716	309	88/11/04	0526:22	0529:47	303	248	15200	5	5218	
9717	309	88/11/04	0832:23	0832:31	28	63	288	2		
9718	309	88/11/04	1133:53	1134:39	71	79	837	3		
9719	309	88/11/04	1205:32	1205:46	37	55	198	2	5212	
9720	309	88/11/04	2253:45	2253:50	18	105	259	2	5212	
9721	310	88/11/05	0143:05	0143:07	8	63	68	2		
9722	310	88/11/05	0527:37	0528:48	105	166	2371	3	5218	
9723	310	88/11/05	2213:50	2213:53	10	135	227	5		
9724	311	88/11/06	0013:29	0014:00	51	63	330	2		
9725	311	88/11/06	0419:37	0419:57	39	72	367	2		
9726	311	88/11/06	0806:32	0807:02	45	94	679	2		
9727	311	88/11/06	0945:50	0946:06	32	132	1087	4		
9728	311	88/11/06	1029:26	1030:12	126	56	716	2		
9729	311	88/11/06	1043:03	1044:09	299	187	6694	3		
9730	311	88/11/06	1104:07	1104:23	28	72	208	2		
9731	311	88/11/06	1819:15	1822:12	1034	2496	2.81E+05	14	5212	M5
9732	312	88/11/07	1014:13	1014:45	59	71	544	2		
9733	312	88/11/07	1037:41	1039:34	139	88	1207	2		
9735	312	88/11/07	1303:49	1304:06	38	65	380	2		
9736	312	88/11/07	1612:25	1612:33	24	60	140	3		
9737	312	88/11/07	2233:56	2234:17	54	87	728	2		
9738	313	88/11/08	1227:52	1230:00	946	148	26751	7	5218	M5,IS
9739	314	88/11/09	0101:14	0101:25	23	56	144	2	5218	
9742	314	88/11/09	0404:37	0404:44	37	46	105	2		
9740	314	88/11/09	0434:43	0435:14	193	105	2010	3		
9741	314	88/11/09	0618:51	0619:02	36	73	408	2		
9979	314	88/11/09	0754:52	0756:08	191	70	1528	2	5218	I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9745	314	88/11/09	1204:40	1205:14	48	62	513	3	5218	
9747	314	88/11/09	1238:28	1240:00	134	92	2883	3	5218	SA
9748	314	88/11/09	1249:17	1250:24	84	69	755	2		
9746	314	88/11/09	1812:09	1812:26	37	80	518	2		
9749	314	88/11/09	2151:31	2151:54	45	61	245	2		
9750	314	88/11/09	2300:17	2300:43	37	58	94	2	5218	
9751	314	88/11/09	2309:01	2309:23	51	57	285	2		
9752	315	88/11/10	0033:38	0034:14	64	549	3929	4		M5,FS
9753	315	88/11/10	0100:58	0102:16	184	70	933	2	5231	
9754	315	88/11/10	0335:20	0335:46	85	73	471	2		
9755	315	88/11/10	0537:39	0538:27	49	59	384	2	5229	
9756	315	88/11/10	0639:08	0640:47	544	140	9035	6	5231	
9757	315	88/11/10	0702:37	0703:41	1546	99	10417	6		M5
9758	315	88/11/10	1040:12	1040:20	24	135	483	5		
9761	315	88/11/10	2116:05	2116:19	20	61	89	2		
9762	316	88/11/11	0013:32	0014:00	45	63	235	2		
9763	316	88/11/11	0023:13	0023:27	23	71	151	2		
9764	316	88/11/11	0319:23	0320:09	77	54	429	2	5233	
9982	316	88/11/11	0349:13	0350:43	124	110	1466	2		I
9983	316	88/11/11	0455:44	0456:13	44	74	516	2		I
10072	316	88/11/11	0621:14	0633:22	963	60	3493	2		I
10076	316	88/11/11	0827:46	0828:18	68	58	407	2		I
9765	316	88/11/11	1709:20	1709:52	66	60	381	2	5218	
9766	316	88/11/11	2045:22	2045:34	46	89	467	2	5218	
9767	316	88/11/11	2152:03	2155:01	285	71	1569	2	5218	
10082	317	88/11/12	1149:16	1150:07	117	142	397	2		I
10083	317	88/11/12	1152:43	1153:50	202	567	19400	4	5229	I
9768	317	88/11/12	1244:25	1244:58	60	67	652	2		EN
9769	317	88/11/12	1321:59	1322:06	139	53	303	2		SN
9770	317	88/11/12	1939:23	1940:56	158	74	1286	2		
9771	317	88/11/12	1944:22	1944:48	242	251	8144	6	5218	
9772	317	88/11/12	2115:02	2116:13	207	1078	21944	5		M5,FS
9773	317	88/11/12	2121:28	2121:38	55	89	377	2		
9774	317	88/11/12	2124:34	2125:20	106	81	1456	2		
9775	317	88/11/12	2306:56	2307:08	17	67	159	2		
9776	318	88/11/13	0522:21	0536:22	2102	2828	6.61E+05	15	5229	M5,EN,DG
9777	318	88/11/13	0713:13	0714:34	169	1115	26819	8	5240	
9778	318	88/11/13	0810:41	0810:51	45	51	257	2		
9779	318	88/11/13	1208:38	1208:56	50	115	836	3	5234	
9780	318	88/11/13	1342:40	1342:58	52	55	231	2		
9781	318	88/11/13	1517:51	1518:15	58	62	196	2	5240	M5
9782	318	88/11/13	1612:46	1613:03	34	108	719	3	5229	
9783	318	88/11/13	2056:07	2105:08	1370	521	1.89E+05	3	5229	M5,IS
9784	318	88/11/13	2246:31	2247:17	83	65	831	2		
9785	318	88/11/13	2250:20	2308:00	1143	3283	5.73E+05	12	5227	M5,EN
9787	319	88/11/14	0145:25	0146:09	73	59	331	2		
9786	319	88/11/14	0149:55	0151:23	698	207	18953	4	5240	DG
9788	319	88/11/14	0210:24	0210:44	32	69	290	2		
9789	319	88/11/14	0216:01	0216:15	34	51	216	2		
9790	319	88/11/14	0343:46	0344:09	41	71	510	2	5229	
9791	319	88/11/14	0437:41	0438:11	50	52	227	2		
9792	319	88/11/14	0440:18	0440:40	29	53	148	2		
9793	319	88/11/14	0507:07	0507:16	43	67	447	2		
9794	319	88/11/14	0628:23	0628:44	47	95	1233	2	5227	
9795	319	88/11/14	0742:36	0751:45	1231	308	68334	3		M5
9797	319	88/11/14	1044:44	1044:47	12	54	88	2		
9796	319	88/11/14	1359:55	1400:07	36	62	188	2		
9798	319	88/11/14	1437:08	1437:48	610	272	56774	6	5229	M5,EN,SA
9799	319	88/11/14	1657:22	1657:59	142	68	998	2	5229	
9800	319	88/11/14	1706:24	1707:07	77	62	431	2		
9801	319	88/11/14	1712:40	1713:06	46	72	231	2		
9802	319	88/11/14	1833:48	1833:58	17	62	84	2		
9803	319	88/11/14	1834:47	1835:03	40	71	351	2	5227	
9804	319	88/11/14	2355:33	2355:51	47	86	438	2		
9805	320	88/11/15	0244:02	0249:26	541	65	2962	2	5229	
9806	320	88/11/15	1050:59	1052:12	672	605	11942	6		M5,FS
10294	320	88/11/15	1947:21	1947:44	45	166	1930	4	5240	I
10295	320	88/11/15	2251:46	2251:53	63	80	898	10	5229	I ,NS,GB

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10296	320	88/11/15	2311:55	2312:08	34	77	504	3		I
10298	321	88/11/16	0229:02	0229:11	110	86	1310	2	5240	I
10300	321	88/11/16	0329:24	0330:28	102	80	802	2	5229	I
10396	321	88/11/16	0408:43	0409:47	563	4343	2.06E+05	12	5229	I ,EN
10304	321	88/11/16	0456:05	0456:22	35	67	381	2		I
10305	321	88/11/16	0501:46	0503:02	199	298	8340	4		I
10393	321	88/11/16	0533:00	0533:24	35	101	507	3		I
10394	321	88/11/16	0628:27	0629:53	596	596	33384	3	5229	I
10397	321	88/11/16	0847:13	0847:30	195	206	5790	4		I
9810	321	88/11/16	1151:13	1151:57	462	4548	53320	7	5227	M5
9811	321	88/11/16	1422:04	1423:00	129	302	9254	4	5229	M5
9812	321	88/11/16	1431:51	1432:48	76	79	1149	2	5229	IS
9813	321	88/11/16	1604:13	1604:33	39	126	836	2	5227	
9816	321	88/11/16	1727:36	1727:40	22	59	81	2		
9815	321	88/11/16	1731:13	1732:25	491	103	7536	2	5229	
9817	321	88/11/16	1821:34	1822:06	36	63	227	2		
9814	321	88/11/16	1858:58	1859:09	22	74	292	2	5229	
10437	321	88/11/16	2047:37	2047:49	26	100	229	3		I
10924	321	88/11/16	2208:39	2208:49	22	92	191	2		I
10925	321	88/11/16	2349:48	2350:09	61	381	3420	4		I
10926	322	88/11/17	0002:43	0003:04	70	295	3230	4		I
10927	322	88/11/17	0029:49	0030:24	80	723	6720	7		I
10928	322	88/11/17	0130:48	0131:16	73	65	384	2		I
10929	322	88/11/17	0448:55	0449:38	83	203	232	3		I
10930	322	88/11/17	0558:44	0559:13	42	87	569	2	5229	I
10931	322	88/11/17	0637:04	0638:59	256	605	57681	4		I
9818	322	88/11/17	1118:51	1120:17	138	177	2031	4	5229	
9823	322	88/11/17	1344:18	1345:32	125	83	1696	2	5240	
9825	323	88/11/18	0045:08	0045:19	22	51	113	2		
9826	323	88/11/18	0432:03	0432:07	20	61	124	2		
9827	323	88/11/18	0900:59	0901:10	36	66	208	2		
10932	323	88/11/18	1403:56	1404:17	90	68	353	2	5229	I
9829	323	88/11/18	1943:08	1944:02	195	565	20930	4	5229	M5
9830	323	88/11/18	2315:40	2316:09	47	60	237	2	5242	
9831	324	88/11/19	1737:39	1737:46	78	61	465	2		
9832	324	88/11/19	2215:28	2215:44	79	80	996	2	5240	
9833	325	88/11/20	0117:35	0118:50	108	61	588	2	5242	
9834	325	88/11/20	1110:27	1110:35	19	72	87	2		
9835	325	88/11/20	2325:38	2325:52	52	56	439	3		
9836	325	88/11/20	2346:21	2346:45	41	48	249	2		
9837	325	88/11/20	2348:03	2349:01	101	87	1525	3		
9838	325	88/11/20	2350:46	2351:02	74	44	276	2		
9839	326	88/11/21	0107:29	0107:40	30	212	1906	4		
9840	326	88/11/21	0301:03	0301:23	39	51	301	2		
9841	326	88/11/21	1227:38	1227:53	24	49	93	2	5240	
9842	326	88/11/21	1348:30	1349:10	104	66	752	2	5240	
9843	326	88/11/21	1950:27	1952:16	338	179	7459	6		
9844	326	88/11/21	2251:32	2254:24	721	717	37765	7	5235	M5
9850	327	88/11/22	1458:41	1459:39	206	73	2463	2	5241	
9854	327	88/11/22	2101:50	2103:01	123	50	374	2	5240	
9855	328	88/11/23	2129:30	2131:02	170	68	1809	3		
11048	330	88/11/25	1621:44	1622:37	149	99	2670	2	5254	I
9858	331	88/11/26	0938:37	0938:50	34	116	750	8		NS,GB
9856	331	88/11/26	2328:55	2335:18	608	111	22306	2	5254	
9857	332	88/11/27	0213:22	0213:31	121	62	1455	2	5251	
9861	332	88/11/27	1754:36	1754:46	29	47	169	2	5256	
9859	332	88/11/27	2211:50	2214:56	2433	719	3.61E+05	4	5254	M5,SN
9860	332	88/11/27	2359:24	2359:54	36	53	372	2		
9863	333	88/11/28	0523:18	0523:34	45	45	165	2		
9864	333	88/11/28	0953:29	0953:45	18	49	98	2		
11074	334	88/11/29	1351:02	1351:26	47	119	769	3	5254	I
9866	334	88/11/29	1956:47	1956:57	22	41	61	2		
9867	335	88/11/30	0336:41	0337:19	117	53	467	2	5254	
9868	335	88/11/30	2106:12	2106:17	59	43	227	2		
9869	335	88/11/30	2116:44	2118:55	173	69	1963	5		
11075	336	88/12/01	0337:54	0338:32	49	46	264	2	5260	I
11076	336	88/12/01	0622:29	0622:39	15	50	78	2		I
11077	336	88/12/01	0749:38	0749:53	33	77	519	2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
9870	336	88/12/01	0752:05	0752:15	34	131	1460	3	5261	I
11079	336	88/12/01	1905:16	1905:39	91	58	871	2	5261	I
9871	337	88/12/02	1750:31	1751:01	89	55	619	2	5261	
9872	338	88/12/03	2004:24	2004:43	37	55	285	7		NS,GB
9873	338	88/12/03	2103:37	2104:15	115	169	4276	3	5265	
9874	339	88/12/04	1250:08	1250:19	22	107	413	3		
11083	340	88/12/05	0219:38	0219:54	31	47	169	2		I
9875	341	88/12/06	1108:16	1109:19	87	45	380	2	5258	
9876	342	88/12/07	0004:20	0004:36	23	49	123	2		
9877	342	88/12/07	0152:08	0152:45	76	175	1473	4		
9878	342	88/12/07	0931:23	0931:32	26	43	153	3		
9879	342	88/12/07	2333:51	2335:07	471	60	3011	4	5254	
9880	343	88/12/08	1429:30	1429:48	26	64	244	2		
9881	343	88/12/08	1835:28	1835:34	18	68	201	2		
9882	343	88/12/08	1913:02	1913:10	43	44	235	2		
9883	343	88/12/08	2000:40	2000:52	25	61	233	2	5265	
11089	344	88/12/09	0316:05	0316:42	374	1907	39100	6	5265	I
9884	344	88/12/09	1404:16	1405:05	82	58	421	2		
9885	345	88/12/10	0453:45	0454:34	82	539	12687	4	5265	M5
9886	345	88/12/10	1414:39	1425:17	696	133	25819	4	5265	EN
9887	345	88/12/10	1648:34	1649:48	297	132	4258	3		
9888	345	88/12/10	1829:25	1830:11	90	59	393	2		
12770	345	88/12/10	1948:53	1948:57	15	44	101	8		NS,GB
9889	345	88/12/10	2257:28	2258:42	144	243	4862	5		
9890	345	88/12/10	2300:44	2303:20	304	708	43161	8	5275	FS
9891	345	88/12/10	2317:01	2317:35	119	227	1818	4		
9892	346	88/12/11	0103:15	0103:50	109	175	1675	4	5275	
9893	346	88/12/11	0109:23	0109:53	51	52	244	2	5275	
9899	346	88/12/11	0515:49	0517:33	359	276	4473	3		FS
9894	346	88/12/11	0723:20	0724:16	190	847	11146	5	5275	
9895	346	88/12/11	0946:28	0946:50	47	54	286	2		
9896	346	88/12/11	0948:01	0948:05	41	63	96	2		
9897	346	88/12/11	1025:43	1026:19	168	114	3035	4		
9898	346	88/12/11	1030:12	1030:34	61	56	321	2		
9900	346	88/12/11	1130:34	1130:49	71	178	1134	4		FS
9901	346	88/12/11	1616:42	1617:06	78	97	1240	4	5275	
9902	346	88/12/11	2247:29	2247:40	41	88	718	2	5275	
9904	347	88/12/12	0735:37	0736:25	91	45	427	2	5269	
9903	347	88/12/12	0941:57	0942:20	56	54	456	2	5272	
9905	347	88/12/12	1420:11	1420:15	18	60	175	2		
9906	347	88/12/12	1544:41	1544:46	28	57	231	2	5265	
9907	347	88/12/12	2013:26	2014:09	96	98	1292	2		
9908	347	88/12/12	2147:35	2148:52	140	272	3798	4	5275	M1
9909	347	88/12/12	2205:53	2206:38	58	87	554	3		
9910	348	88/12/13	1027:19	1028:02	159	1777	44320	13	5265	M1
9911	348	88/12/13	1415:36	1416:48	159	62	1679	2	5269	
9912	348	88/12/13	1939:39	1939:44	23	56	322	2		ND
9914	348	88/12/13	2128:26	2128:33	12	46	68	2	5273	
9913	349	88/12/14	0216:59	0217:27	38	54	228	2	5275	
9917	349	88/12/14	0509:53	0511:06	126	113	1815	2	5279	
9918	349	88/12/14	0632:47	0633:43	454	66	3259	2	5279	
9919	349	88/12/14	0713:18	0713:28	39	49	119	2		
9915	349	88/12/14	0842:59	0845:08	211	110	4195	4	5279	
9920	349	88/12/14	1009:30	1010:19	289	1096	36050	6		M1
9921	349	88/12/14	1109:57	1114:15	1223	86	16477	5		SN
9922	349	88/12/14	1143:45	1143:52	23	59	134	2		
9923	349	88/12/14	1152:45	1153:58	120	59	794	2		
9916	349	88/12/14	1254:08	1254:57	113	150	3452	2	5278	
9924	349	88/12/14	1336:09	1337:23	444	4922	1.61E+05	11	5278	
9925	349	88/12/14	1729:26	1733:28	721	598	53999	5		
9926	349	88/12/14	1748:12	1751:15	672	66	3676	2		
9927	349	88/12/14	1908:19	1908:31	31	50	146	2	5273	
9928	349	88/12/14	1914:14	1914:40	33	103	367	2		
9929	349	88/12/14	2034:42	2036:04	194	101	3440	2		
9930	349	88/12/14	2215:18	2216:19	107	85	961	2	5278	
9931	350	88/12/15	0137:33	0138:04	83	58	598	2	5279	
9932	350	88/12/15	0304:32	0304:43	27	81	330	2		
10976	350	88/12/15	0326:35	0326:51	26	73	121	2		I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10977	350	88/12/15	0446:04	0446:30	82	60	359	2		I
9933	350	88/12/15	0455:48	0503:52	1544	2317	5.37E+05	7	5278	EN
9935	350	88/12/15	1134:07	1136:08	220	63	3520	3		
9934	350	88/12/15	1210:50	1213:21	170	61	126	2		
9936	350	88/12/15	1400:37	1400:43	149	58	529	2	5273	
9937	350	88/12/15	1526:24	1527:12	144	103	1338	3		
10978	351	88/12/16	0532:10	0532:17	21	54	127	2		I
9938	351	88/12/16	0655:31	0700:46	397	67	1700	4		
9939	351	88/12/16	0752:52	0753:04	30	61	186	3		
9940	351	88/12/16	0828:40	0833:28	6504	69980	3.00E+07	15	5278	M1,SN,IN,DG
9941	351	88/12/16	1043:58	1044:13	29	54	234	3		
9942	351	88/12/16	1210:19	1211:02	65	58	482	2	5280	
9943	351	88/12/16	1401:01	1401:16	42	64	563	3	5280	
9945	351	88/12/16	1538:00	1538:20	69	230	2923	3	5278	
9946	351	88/12/16	1624:58	1625:10	37	67	292	2		
9944	351	88/12/16	1806:03	1806:12	21	46	103	2		
9947	351	88/12/16	2233:46	2235:00	78	57	494	2	5278	
9948	351	88/12/16	2245:41	2246:10	416	690	28256	7	5278	M1
9949	352	88/12/17	0316:14	0316:24	27	61	255	2		
9950	352	88/12/17	0342:44	0342:54	29	119	700	2		
9951	352	88/12/17	0344:50	0346:05	261	3367	1.06E+05	7	5273	FS
9952	352	88/12/17	0450:38	0451:12	111	162	3406	3		
9953	352	88/12/17	0455:24	0459:23	723	1187	1.01E+05	5	5278	M1
9954	352	88/12/17	0512:54	0513:19	53	50	238	2		
9955	352	88/12/17	0531:22	0539:21	868	172	25943	2	5278	EN
9956	352	88/12/17	1129:18	1129:33	42	50	181	2		
9957	352	88/12/17	1135:34	1136:28	62	90	403	3		
9958	352	88/12/17	1731:39	1735:32	971	93	9246	2		ES
9959	353	88/12/18	0128:16	0129:59	136	76	1578	2	5278	
9960	353	88/12/18	0731:34	0732:36	153	368	8383	14		FS,NS,GB
9961	353	88/12/18	0912:18	0914:22	783	295	18339	4	5278	
9962	353	88/12/18	1035:43	1036:07	77	238	2812	3		
9963	353	88/12/18	1235:27	1235:34	29	55	186	2	5282	
9964	353	88/12/18	1300:04	1300:35	71	63	563	4		
9965	353	88/12/18	1347:04	1347:25	34	67	305	3		
9966	353	88/12/18	1651:05	1651:45	80	51	410	2		
9967	353	88/12/18	1700:35	1701:07	38	56	285	2		
9968	353	88/12/18	1706:35	1711:15	299	1523	1.53E+05	6		IS
9969	353	88/12/18	2158:34	2202:02	277	61	1511	2		
9970	354	88/12/19	0040:00	0044:43	553	83	5065	3	5279	
11090	354	88/12/19	0213:32	0214:20	115	63	917	2	5282	I
9971	354	88/12/19	1023:01	1023:06	22	60	147	2		
9972	354	88/12/19	1610:17	1610:59	78	146	1159	3		
9973	354	88/12/19	2110:30	2110:43	20	62	191	3	5273	
9974	354	88/12/19	2111:56	2112:01	25	47	113	2		
9975	354	88/12/19	2229:48	2230:02	30	92	447	2	5279	
9976	355	88/12/20	0151:06	0201:56	901	265	34732	7	5273	
9977	355	88/12/20	0211:05	0211:25	39	53	138	2		
9978	355	88/12/20	0214:21	0217:19	223	261	9085	5	5273	
9980	355	88/12/20	1123:53	1124:29	61	289	3828	4		M1,EG
9981	355	88/12/20	1226:04	1226:35	6472	1278	1.36E+05	15		M1,SN,EN,IS,DG
9984	355	88/12/20	1710:57	1711:16	45	49	160	2		
9985	355	88/12/20	1712:00	1712:32	76	54	329	2		
9986	355	88/12/20	1723:15	1724:37	165	69	1381	3		
9987	356	88/12/21	0248:06	0248:19	23	87	423	3		
9988	356	88/12/21	0248:49	0249:03	28	81	230	2		
9989	356	88/12/21	0609:59	0611:39	213	69	1734	3	5278	
9990	356	88/12/21	1520:54	1521:09	74	122	1150	3	5280	ES
11859	356	88/12/21	1553:05	1554:35	131	554	11200	5	5273	M1,EN,SA
9991	356	88/12/21	2321:01	2321:19	44	74	412	2		
9994	357	88/12/22	0021:33	0021:36	25	48	115	2	5290	
9992	357	88/12/22	0515:17	0515:48	85	50	427	3		ND
9993	357	88/12/22	0822:55	0823:23	71	50	522	2		
9995	357	88/12/22	2236:12	2236:37	39	54	197	3		
9996	357	88/12/22	2256:34	2256:48	20	65	184	2	5285	
9997	357	88/12/22	2346:02	2347:00	1757	82	16931	2	5278	SN
9998	358	88/12/23	0016:05	0016:14	23	121	594	3		
9999	358	88/12/23	0205:26	0205:46	39	56	246	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10000	358	88/12/23	0643:50	0644:17	49	109	595	2		
10001	358	88/12/23	0928:29	0928:31	30	58	318	2		
10002	358	88/12/23	1526:12	1526:26	45	66	1225	4	5275	ND
10003	358	88/12/23	2016:56	2017:20	40	53	233	2		
10004	358	88/12/23	2019:10	2019:59	56	53	247	2	5278	
10005	358	88/12/23	2038:08	2038:53	121	89	1651	2		
10006	359	88/12/24	0136:24	0137:15	130	56	595	2		
10007	359	88/12/24	0418:01	0418:04	16	53	111	2		
10008	360	88/12/25	0813:10	0813:33	49	65	346	2		
10009	360	88/12/25	0853:22	0853:37	38	315	2885	5		M1,EG
10010	360	88/12/25	0955:32	0955:43	46	57	258	2		
10011	360	88/12/25	1001:26	1001:55	98	61	455	2		
10012	360	88/12/25	1111:31	1112:14	255	132	7718	3		FS
10013	360	88/12/25	1425:45	1425:50	30	113	662	5		
10014	360	88/12/25	1902:32	1902:39	26	107	460	2		
10015	360	88/12/25	1904:18	1906:16	163	215	3077	3	5278	
10016	360	88/12/25	2202:09	2202:20	16	63	130	2		
10017	360	88/12/25	2224:06	2225:15	202	64	1315	2		
10018	360	88/12/25	2231:52	2234:47	428	99	7383	2	5292	
10019	361	88/12/26	0607:00	0607:10	24	63	181	2		
10020	361	88/12/26	2015:57	2019:31	697	126	8783	2	5292	
10021	362	88/12/27	0116:36	0117:27	176	76	2054	2		
10024	362	88/12/27	0247:00	0248:04	137	62	1003	2		
10025	362	88/12/27	0257:40	0258:43	246	65	2006	2		
10026	362	88/12/27	0520:52	0523:00	135	335	10823	3	5292	M1,DG
10027	362	88/12/27	0528:55	0529:19	53	348	7215	5		M1,DG
10028	362	88/12/27	0703:06	0710:50	2003	322	1.35E+05	4		M1,DG
10022	362	88/12/27	0839:03	0839:43	88	113	1645	2	5285	
10023	362	88/12/27	0842:51	0843:48	88	83	891	2	5285	
10029	362	88/12/27	1051:01	1051:41	59	669	13644	3	5292	M1,DG
10030	362	88/12/27	1350:54	1351:24	267	450	8571	5	5285	M1,DG
10031	363	88/12/28	0023:42	0028:20	1904	389	24295	3	5292	M1,EN,DG
10032	363	88/12/28	0825:33	0827:41	246	60	2022	2	5297	
10033	363	88/12/28	1227:40	1228:17	76	56	590	2	5285	I
11104	363	88/12/28	1843:17	1844:24	625	214	15900	4	5297	I
10034	363	88/12/28	2340:42	2342:59	663	8678	2.75E+05	8	5285	
10035	364	88/12/29	0414:43	0415:21	100	152	4083	2	5285	
10036	364	88/12/29	1155:26	1158:59	329	311	35370	4	5292	
10037	364	88/12/29	1637:08	1639:05	140	153	4150	4	5300	
10038	364	88/12/29	1645:48	1649:25	258	71	1235	3		
10039	364	88/12/29	1819:02	1819:18	43	84	272	3		
10040	364	88/12/29	1821:41	1822:05	51	50	215	2		
10041	364	88/12/29	1825:42	1825:51	63	56	301	2	5285	
10045	365	88/12/30	1650:12	1651:00	166	178	3214	3	5285	
10046	365	88/12/30	1827:13	1827:13	84	51	307	2	5292	SA
10042	366	88/12/31	0034:16	0034:32	63	69	664	2		
10043	366	88/12/31	0814:24	0814:45	33	60	251	2	5296	
10044	366	88/12/31	1357:41	1358:27	86	109	1959	2	5296	
11119	1	89/01/01	0000:37	0003:02	401	109	6170	2	5290	I
10048	1	89/01/01	0538:44	0538:51	24	46	75	2		
10047	1	89/01/01	0616:07	0617:34	438	128	4323	3	5297	
10049	1	89/01/01	0736:38	0736:49	37	57	152	2		
10050	1	89/01/01	1102:21	1102:31	17	44	129	2	5303	
11280	1	89/01/01	1406:45	1407:21	141	54	763	4		I
11281	1	89/01/01	1408:30	1408:38	103	51	382	3		I
10051	1	89/01/01	1628:26	1629:53	187	47	1313	2	5292	
11282	1	89/01/01	1817:29	1819:27	248	54	1180	2	5303	I
10052	1	89/01/01	2247:29	2247:34	39	45	104	2	5295	
10053	2	89/01/02	0708:24	0708:27	25	43	79	3		
10054	2	89/01/02	0710:38	0710:45	25	42	111	2		
10055	2	89/01/02	1853:13	1917:50	3465	300	1.09E+05	7	5290	M1,SN,EN,IS,DG
10056	3	89/01/03	0304:28	0304:41	44	61	298	3	5303	
10057	3	89/01/03	0632:53	0633:03	44	50	117	2		
10058	3	89/01/03	0926:27	0926:54	89	67	1139	2		
10059	3	89/01/03	1125:09	1125:32	33	106	658	2	5303	
10060	3	89/01/03	1340:48	1341:35	85	61	453	2		
10061	3	89/01/03	1343:35	1345:16	140	51	652	2	5297	
10062	3	89/01/03	1734:13	1734:50	174	633	23000	5	5307	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10063	3	89/01/03	1823:13	1823:28	18	58	108	2	5303	
10064	3	89/01/03	2153:53	2154:15	36	54	261	2		
10065	4	89/01/04	0048:56	0049:28	72	60	427	2	5307	
10066	4	89/01/04	0407:38	0408:32	99	121	2577	3		
10067	4	89/01/04	1447:55	1449:00	136	71	1719	2		EN
10068	4	89/01/04	1609:35	1612:12	469	80	6833	2		
10069	4	89/01/04	1654:34	1657:12	538	32	3183	2	5303	SN
10070	4	89/01/04	1749:11	1752:58	1163	468	1.12E+05	8	5303	IS
10071	4	89/01/04	2052:01	2052:38	88	60	1166	2		
10073	5	89/01/05	0223:44	0223:55	14	42	107	2		
10074	5	89/01/05	0443:06	0448:58	571	77	7724	7		AX
10075	5	89/01/05	0634:46	0635:07	40	122	718	3	5309	
10077	5	89/01/05	0841:08	0841:23	31	43	225	2		
10078	5	89/01/05	0949:54	0950:48	93	142	2410	4	5309	
10079	5	89/01/05	1010:47	1011:07	24	45	114	2		
10080	5	89/01/05	1142:53	1144:16	129	59	1116	2		
10081	5	89/01/05	1547:42	1547:54	23	47	124	2		
12771	5	89/01/05	1855:46	1855:56	28	49	144	5		NS,GB
10084	6	89/01/06	0244:17	0244:53	50	54	276	2		
11286	6	89/01/06	0553:27	0553:51	156	65	2060	4		I
11288	6	89/01/06	1240:16	1240:27	21	218	977	3		I
10088	6	89/01/06	1805:13	1807:15	1507	210	67128	3	5312	SN
10085	6	89/01/06	1838:34	1838:53	31	107	534	3		
10086	6	89/01/06	1949:02	1949:26	58	119	1021	2	5312	
10087	6	89/01/06	2020:00	2020:15	32	95	482	3	5301	
10089	7	89/01/07	0108:41	0108:48	16	98	428	2	5307	
10090	7	89/01/07	0211:09	0211:16	31	225	1674	5		
10091	7	89/01/07	0228:53	0229:09	31	58	396	3		
10092	7	89/01/07	0230:23	0230:34	29	175	1034	4		
10093	7	89/01/07	0233:38	0234:53	173	50	651	2		
10094	7	89/01/07	0239:40	0239:54	37	198	1748	4	5301	
10097	7	89/01/07	0332:13	0334:51	792	125	12333	7		
10095	7	89/01/07	0352:28	0352:32	35	59	247	2		
10096	7	89/01/07	0404:05	0423:10	1155	1172	2.86E+05	4	5312	M1,EN
10098	7	89/01/07	0654:33	0654:56	91	68	927	5		I ,SA
10099	7	89/01/07	1251:15	1253:32	315	76	3000	2	5301	I ,SN,ES
10100	7	89/01/07	1812:21	1813:00	67	154	1517	3	5301	
10101	7	89/01/07	1823:18	1824:10	70	58	248	2		
10102	7	89/01/07	1941:13	1941:53	45	126	1260	3	5301	
10103	7	89/01/07	2216:56	2217:13	36	265	1659	4		
10104	7	89/01/07	2245:29	2246:51	534	103	9733	3		
10105	7	89/01/07	2305:55	2306:21	39	76	653	2		EN
10106	7	89/01/07	2350:36	2350:47	27	67	206	2		
10107	8	89/01/08	0156:15	0157:52	348	48	1246	2		
10108	8	89/01/08	0256:57	0259:46	502	794	1.38E+05	11		
10109	8	89/01/08	0325:06	0326:11	266	56	3128	2		
10110	8	89/01/08	0339:31	0339:48	52	48	299	2		
10111	8	89/01/08	0437:05	0440:25	329	236	19238	8		
10112	8	89/01/08	0645:08	0646:16	551	147	10294	4	5312	
11290	8	89/01/08	0827:11	0827:45	54	158	3780	2	5311	I ,EN
11291	8	89/01/08	0957:43	0958:15	133	46	192	2		I
10113	8	89/01/08	1246:14	1246:37	1284	262	91225	4	5312	EN,SA
10114	8	89/01/08	1656:40	1704:35	1147	239	1.19E+05	2		EG
10115	8	89/01/08	1900:29	1902:09	451	69	4649	2	5312	
10116	8	89/01/08	2329:43	2340:34	1432	2546	2.94E+05	7		
10117	9	89/01/09	0055:24	0109:00	1163	198	19607	3	5315	
10118	9	89/01/09	0737:25	0737:39	40	50	318	2		
10119	9	89/01/09	1212:59	1214:39	308	59	1567	2		
11301	9	89/01/09	1347:54	1350:20	391	64	3900	2		I
11302	9	89/01/09	1356:49	1357:52	84	50	140	2		I
11303	9	89/01/09	1359:58	1400:16	41	48	277	2		I
10120	9	89/01/09	1759:50	1800:21	231	66	1884	2		
10121	9	89/01/09	1822:42	1832:27	1216	74	13928	4	5316	
10122	9	89/01/09	1925:12	1925:43	569	389	94981	3	5312	M1,SN,EG
10123	9	89/01/09	2102:46	2105:48	586	157	22800	6		I
10124	9	89/01/09	2253:53	2254:06	21	69	287	2		
10125	10	89/01/10	0022:50	0027:17	1993	225	58863	3	5312	M1
10126	10	89/01/10	0343:52	0344:15	51	48	271	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10127	10	89/01/10	0503:52	0504:51	122	94	2612	6		
10128	10	89/01/10	0514:16	0515:01	171	71	2876	2	5312	
10546	10	89/01/10	0655:45	0657:45	217	55	1570	2		I
10129	10	89/01/10	1308:40	1308:52	287	99	3870	2		
10132	10	89/01/10	1454:53	1455:12	66	79	802	2		
10133	10	89/01/10	1501:03	1501:22	97	73	929	2		
10134	10	89/01/10	1504:04	1504:24	35	46	222	2		
10135	10	89/01/10	1617:39	1617:52	61	56	612	2		
10136	10	89/01/10	1744:28	1747:57	1436	303	26329	4	5312	M1,FS
10130	10	89/01/10	1906:52	1909:55	343	57	3061	2	5315	
10131	10	89/01/10	2023:10	2025:33	3424	2843	3.01E+06	15	5312	M5,SN
10137	10	89/01/10	2250:13	2250:24	33	53	307	2		
10138	11	89/01/11	0251:45	0253:01	89	57	660	2	5317	
11384	11	89/01/11	0444:26	0445:23	296	847	14800	5	5312	M5,I
9307	11	89/01/11	0456:25	0457:05	108	62	875	2		I
10143	11	89/01/11	0629:17	0629:28	22	48	143	2		
10139	11	89/01/11	0632:11	0632:19	37	56	302	2	5312	
10140	11	89/01/11	0637:05	0637:35	58	43	249	2		
10141	11	89/01/11	0743:41	0744:02	43	442	4280	5		M5
10142	11	89/01/11	1421:26	1422:05	52	123	1032	4		
10144	11	89/01/11	1814:28	1814:41	52	59	482	3		
10145	11	89/01/11	1817:30	1817:54	42	46	229	2	5312	
10146	11	89/01/11	1833:57	1834:02	9	47	80	2		
10147	11	89/01/11	2022:10	2022:25	23	47	126	2		
10148	11	89/01/11	2032:44	2032:56	52	49	301	3		
10152	11	89/01/11	2128:09	2129:17	201	74	2072	2	5317	
10153	11	89/01/11	2254:17	2255:08	599	106	7300	6	5317	
10149	11	89/01/11	2336:41	2336:50	22	46	113	2	5321	
11393	12	89/01/12	0033:00	0033:12	27	71	350	2	5312	I
10150	12	89/01/12	0420:57	0426:40	396	400	15666	4	5312	DG,FS
10155	12	89/01/12	0602:12	0602:16	13	57	76	2		
10154	12	89/01/12	1034:06	1034:20	25	55	133	3	5312	
10151	12	89/01/12	1040:37	1040:46	16	55	163	2		
10157	12	89/01/12	1642:51	1642:58	24	54	183	3		
10158	12	89/01/12	1645:06	1645:17	87	60	516	2	5312	
10156	12	89/01/12	1739:01	1739:12	21	72	220	2		
11416	12	89/01/12	1743:22	1744:30	134	120	3160	2	5311	I
10166	12	89/01/12	2046:25	2047:42	141	77	1449	3	5318	
10159	12	89/01/12	2120:36	2121:21	247	49	642	2		
10160	12	89/01/12	2251:37	2251:44	18	49	199	2		
10161	13	89/01/13	0002:07	0007:58	882	157	13428	3	5312	
10162	13	89/01/13	0021:55	0023:15	209	58	1048	2		
10163	13	89/01/13	0040:06	0041:02	75	51	404	2		
10164	13	89/01/13	0154:31	0155:05	127	49	1177	2	5312	
10165	13	89/01/13	0349:17	0354:02	467	448	34792	7	5312	
10167	13	89/01/13	0512:27	0513:13	59	45	328	2		
10168	13	89/01/13	0829:05	0832:09	398	315	25720	3		EN
10169	13	89/01/13	0937:59	1010:54	2003	440	69500	5	5312	SN,EN,IS
10170	13	89/01/13	1046:46	1047:36	100	67	2009	2		SN,ES
10171	13	89/01/13	1221:03	1226:31	393	864	90701	5	5316	SN,ES
10172	13	89/01/13	1251:05	1254:21	555	77	5993	2		SA
10173	13	89/01/13	1312:03	1312:20	94	47	353	2		
10176	13	89/01/13	1527:30	1527:50	189	1338	23756	5		M5,FS
10177	13	89/01/13	1613:24	1613:57	209	134	3610	2		
10178	13	89/01/13	1701:24	1714:54	3400	937	4.52E+05	5	5312	M5,SN,EN
10174	13	89/01/13	1850:02	1850:09	24	65	289	2		
10175	13	89/01/13	1918:32	1919:14	54	73	813	2		
11424	13	89/01/13	1928:24	1930:18	207	65	2190	2	5312	I ,EN
11425	13	89/01/13	2045:52	2046:10	32	70	339	2	5321	I
11426	13	89/01/13	2046:39	2046:51	45	51	292	2		I
11435	13	89/01/13	2151:50	2155:21	1061	243	48000	2		I
10183	13	89/01/13	2356:48	2357:21	65	42	281	2		
10179	14	89/01/14	0117:26	0117:32	38	52	200	2	5317	
10180	14	89/01/14	0146:26	0146:39	31	43	199	2		
10181	14	89/01/14	0257:00	0308:54	1156	339	15451	5	5312	M5,DG,ND
10182	14	89/01/14	0406:42	0413:43	2802	5534	3.09E+06	11	5312	M5,SN,EN
10184	14	89/01/14	0742:01	0742:38	54	60	422	2		
10185	14	89/01/14	0913:39	0913:44	11	48	81	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10186	14	89/01/14	1351:27	1352:38	277	1289	24851	7	5312	M5
10187	14	89/01/14	1642:35	1642:45	34	125	874	3	5317	
10188	14	89/01/14	1940:02	1942:44	377	108	6834	2	5321	
10189	14	89/01/14	2110:51	2111:25	257	92	3896	3	5317	
10190	14	89/01/14	2143:39	2145:05	457	1802	59141	5	5312	
11427	14	89/01/14	2239:21	2239:39	743	653	1.31E+05	3	5312	I ,SN
11428	14	89/01/14	2254:40	2255:11	75	50	281	2		I
10191	15	89/01/15	0345:49	0346:26	65	48	382	2		
10192	15	89/01/15	0412:59	0413:05	13	59	88	2		
10193	15	89/01/15	0414:38	0415:00	50	165	1327	4		
10194	15	89/01/15	0539:16	0540:04	89	57	487	2	5318	
10195	15	89/01/15	0959:06	0959:13	15	78	233	3		
11514	15	89/01/15	1145:34	1146:15	61	47	445	3		I
11515	15	89/01/15	1147:06	1149:40	287	81	2760	4	5312	I
11518	15	89/01/15	1548:35	1550:11	379	887	41600	7	5312	M5,I
11520	15	89/01/15	1606:29	1606:47	35	1267	4750	5		I
10197	15	89/01/15	2033:38	2035:22	788	61	3842	3	5312	
10196	15	89/01/15	2115:31	2116:05	96	119	3006	2		
10198	15	89/01/15	2216:31	2218:42	138	52	407	3	5321	
10199	16	89/01/16	0317:53	0318:12	38	409	3284	5		M5
10200	16	89/01/16	0319:03	0319:09	46	48	286	2		
10201	16	89/01/16	0321:47	0325:15	395	1422	36591	7	5312	
10202	16	89/01/16	0452:54	0453:43	71	155	1776	3	5317	
10203	16	89/01/16	0509:16	0509:18	5	149	225	3		
10204	16	89/01/16	0619:52	0622:04	1102	669	43293	6	5312	
10205	16	89/01/16	0746:55	0747:15	48	71	383	2	5311	
10206	16	89/01/16	0925:35	0926:20	102	52	448	2		
10207	16	89/01/16	0931:25	0932:00	93	48	459	2	5312	
10208	16	89/01/16	1059:17	1059:18	1925	195	89545	2		EN,SA,DG
10209	16	89/01/16	1205:02	1209:34	520	55	5948	2		SN,ES
10210	16	89/01/16	1512:30	1514:13	700	362	9760	5	5312	SN
10211	16	89/01/16	2200:01	2200:33	96	91	1565	3		
10212	16	89/01/16	2206:25	2207:29	126	48	635	3		
10213	16	89/01/16	2211:34	2216:26	883	9556	5.14E+05	8	5312	M5,I ,EN,DG
10214	16	89/01/16	2318:22	2318:47	49	42	213	2		
10215	16	89/01/16	2337:59	2339:18	283	47	956	2		
10216	16	89/01/16	2350:58	2351:23	43	56	315	3		
10217	17	89/01/17	0224:23	0225:08	59	45	220	2		
10218	17	89/01/17	0359:29	0359:42	24	49	122	2		
10219	17	89/01/17	0534:28	0535:15	373	87	3510	2	5321	DG
10220	17	89/01/17	2009:53	2010:17	44	42	218	2		
10221	17	89/01/17	2109:31	2109:46	29	45	172	2		
10222	18	89/01/18	0012:33	0012:45	15	48	88	2		
10223	18	89/01/18	0021:08	0021:20	149	106	1364	3		
10226	18	89/01/18	0347:49	0348:12	44	44	165	2		
10227	18	89/01/18	0507:24	0508:39	340	70	4296	2	5312	
10224	18	89/01/18	0629:21	0701:01	2613	2248	1.09E+06	8	5312	M5,SN,EN
10225	18	89/01/18	0823:22	0823:33	18	55	112	2		
11672	18	89/01/18	1313:29	1313:59	76	127	2050	2		I
10228	18	89/01/18	1804:05	1805:44	227	52	1388	2	5317	
10229	18	89/01/18	1844:50	1846:29	184	235	12722	3		
10233	18	89/01/18	2325:41	2326:15	43	44	235	2		
10230	18	89/01/18	2359:02	2359:13	44	67	633	3		
10231	19	89/01/19	0255:07	0255:25	37	66	547	3		
10232	19	89/01/19	0258:30	0259:03	54	48	290	2		
10234	19	89/01/19	0913:50	0914:39	102	174	3442	4		
10235	19	89/01/19	1204:00	1204:12	30	41	156	2		
10236	19	89/01/19	1235:46	1236:03	52	47	202	2		
10237	19	89/01/19	1414:48	1414:55	22	53	141	2		
10238	19	89/01/19	1532:59	1533:14	40	46	284	2		
10242	19	89/01/19	1722:10	1722:18	36	35	103	2	5321	
10239	19	89/01/19	1820:38	1820:54	34	48	309	2		
10243	19	89/01/19	2140:48	2140:58	22	37	96	2		
10240	20	89/01/20	0245:29	0245:46	46	79	641	3		
10241	20	89/01/20	0554:15	0554:43	77	101	1890	5		
10244	20	89/01/20	1428:16	1432:03	300	46	1091	2	5317	
10245	20	89/01/20	1509:30	1512:00	226	102	5475	3	5317	
10246	20	89/01/20	1522:45	1523:02	25	38	94	2	5321	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10247	20	89/01/20	1554:46	1555:41	441	1196	1.04E+05	4	5321	SN,DG
10248	20	89/01/20	1924:26	1926:19	1409	66	9099	4		
10249	20	89/01/20	1954:01	1954:32	103	48	388	3	5317	
10250	20	89/01/20	2210:01	2210:06	12	49	99	3		
10251	20	89/01/20	2345:22	2345:30	34	122	807	4	5329	
10252	21	89/01/21	0036:31	0037:37	85	106	406	2	5329	
10255	21	89/01/21	0344:21	0344:30	21	47	127	2	5329	
10256	21	89/01/21	0657:21	0659:03	153	124	5685	3		EN
10253	21	89/01/21	0926:33	0926:35	10	57	70	2		
10254	21	89/01/21	1135:52	1136:15	273	169	7152	3		
10257	21	89/01/21	1405:29	1405:37	30	64	262	2		
10258	21	89/01/21	1540:07	1544:38	492	47	2241	2		
10259	21	89/01/21	1610:51	1611:29	73	67	649	2	5329	
10260	21	89/01/21	1900:09	1901:29	130	71	1346	2		
10261	21	89/01/21	1915:24	1916:44	187	309	6845	3		
10262	21	89/01/21	1922:39	1922:41	42	46	189	2		
10263	21	89/01/21	2014:43	2015:05	126	495	4901	5		
10264	21	89/01/21	2222:53	2223:03	20	54	114	2		
10265	22	89/01/22	0132:20	0133:20	98	68	1364	2		
10266	22	89/01/22	0254:34	0255:30	408	321	10627	4		
10267	22	89/01/22	0411:07	0411:33	50	49	178	2		
10268	22	89/01/22	1101:44	1101:50	11	39	65	2		
10269	22	89/01/22	1104:27	1104:36	24	41	137	2		
10270	22	89/01/22	1345:41	1347:05	279	81	4073	2	5317	
10271	22	89/01/22	1456:00	1456:12	21	52	111	2		
10272	22	89/01/22	1457:41	1458:02	46	41	201	2		
10273	22	89/01/22	2134:37	2135:00	48	51	171	2		
10274	22	89/01/22	2243:32	2243:42	25	44	120	2		
10275	23	89/01/23	0055:10	0057:22	438	69	4695	2	5329	
10277	23	89/01/23	0150:49	0151:00	20	55	134	2		
10278	23	89/01/23	0156:40	0156:48	16	87	248	2		
10276	23	89/01/23	0201:19	0202:50	168	62	1174	2	5329	
10279	23	89/01/23	0228:35	0228:39	24	63	209	2		
10280	23	89/01/23	0329:43	0329:45	22	45	161	2		
10281	23	89/01/23	0343:36	0343:50	18	45	103	2		
10283	24	89/01/24	1855:32	1855:47	68	46	389	2	5329	
10286	24	89/01/24	2143:08	2143:13	50	42	138	2		
10284	24	89/01/24	2300:41	2304:51	780	239	18073	3	5329	
10285	24	89/01/24	2328:21	2330:49	211	61	1730	2		
10287	25	89/01/25	0105:00	0105:11	18	102	317	2		
10288	25	89/01/25	0253:13	0253:28	35	42	139	2		
10292	25	89/01/25	0708:46	0710:16	248	136	6910	4	5334	I
11285	25	89/01/25	0909:08	0909:30	52	48	231	2		I
10289	25	89/01/25	1007:29	1007:38	23	58	299	2		
10290	25	89/01/25	1138:28	1139:33	84	49	338	2		
10291	25	89/01/25	1450:03	1454:45	1785	647	59789	5	5330	ND
10297	25	89/01/25	1737:11	1739:01	180	145	9090	5		ND
10293	26	89/01/26	0001:14	0003:20	238	48	776	2		
10299	26	89/01/26	0432:01	0434:13	1327	518	89824	3	5329	M5,SN
10301	26	89/01/26	0518:32	0521:56	398	57	6368	2		ND
10302	26	89/01/26	0632:42	0637:26	442	160	8108	4		
10303	26	89/01/26	1411:17	1411:43	677	4165	36107	9	5329	M5
10306	26	89/01/26	1724:00	1724:20	48	59	442	2	5323	
10307	26	89/01/26	2349:17	2350:45	909	1965	2.20E+05	9	5334	M5,ES
10308	27	89/01/27	0236:56	0237:04	39	51	199	2		
10309	27	89/01/27	0250:52	0251:23	48	46	190	2		
10310	27	89/01/27	0423:10	0424:11	107	52	511	2	5329	
10312	27	89/01/27	0454:38	0454:46	30	49	215	2		
10313	27	89/01/27	0626:00	0626:07	17	41	86	2		
10311	27	89/01/27	0839:55	0840:14	31	48	192	2		
10314	27	89/01/27	1519:22	1520:26	373	641	12844	5	5329	M5,FS
10315	28	89/01/28	0632:55	0633:04	84	82	807	4	5330	
10316	28	89/01/28	0805:19	0812:55	946	674	26094	5	5334	M5
10317	28	89/01/28	0854:14	0855:01	107	50	673	2	5330	
10318	28	89/01/28	1255:22	1300:58	465	94	5966	2	5329	
10319	28	89/01/28	1304:20	1304:49	95	45	490	2		
10320	28	89/01/28	1554:32	1555:04	99	205	3360	3	5329	
10321	28	89/01/28	1753:38	1753:39	128	81	863	2	5329	SG

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10322	29	89/01/29	0132:12	0132:20	19	50	128	2		
10323	29	89/01/29	0803:34	0804:06	70	45	334	2		
10324	29	89/01/29	1044:51	1047:57	459	116	5912	3		
10325	29	89/01/29	1224:46	1225:44	204	66	2134	2	5334	
10326	29	89/01/29	2303:09	2303:20	28	64	361	2		
10327	29	89/01/29	2304:23	2304:56	56	105	847	3	5329	
10328	29	89/01/29	2325:27	2327:11	216	267	8378	3	5329	
10329	30	89/01/30	0041:28	0041:55	67	58	466	2		
10330	30	89/01/30	0057:19	0106:29	1190	1230	1.24E+05	7	5334	M5
10331	30	89/01/30	0348:50	0352:23	312	222	11523	6	5329	
10332	30	89/01/30	0913:20	0913:27	11	45	112	2		
10333	30	89/01/30	1322:19	1322:34	85	44	316	2		
10334	30	89/01/30	2058:51	2101:09	370	595	11556	7	5329	SG
10335	31	89/01/31	0305:48	0306:51	166	329	11276	4	5334	
10336	31	89/01/31	0821:21	0821:54	43	55	239	2	5329	
10337	31	89/01/31	1731:59	1733:33	116	324	4880	3	5329	M5,I ,ES
10338	32	89/02/01	0120:07	0120:20	39	72	538	2	5329	
10340	32	89/02/01	0138:02	0145:36	462	75	2953	2	5334	ES
10339	32	89/02/01	0738:30	0738:40	270	83	2376	2	5334	
10341	32	89/02/01	0802:33	0802:52	34	47	175	2	5329	
10342	32	89/02/01	1013:11	1013:49	2056	98	30265	5	5334	M5,ND
10343	32	89/02/01	1108:26	1108:44	75	77	1405	4	5334	
10344	32	89/02/01	1546:31	1547:16	152	51	921	2	5334	
10345	32	89/02/01	2000:01	2000:23	213	59	1333	2	5329	
10346	32	89/02/01	2118:38	2119:17	54	54	414	2	5334	
9306	33	89/02/02	0818:37	0818:57	40	51	210	2	5334	I
10347	33	89/02/02	1122:39	1123:36	241	367	7810	4	5334	
10348	34	89/02/03	0257:35	0258:26	95	57	858	2		
10349	34	89/02/03	1102:59	1103:34	182	48	1384	2		
10545	34	89/02/03	1355:27	1428:47	2461	95	16700	5	5336	I ,EN,IS
10350	34	89/02/03	2320:05	2320:29	39	49	203	2		
10351	35	89/02/04	0231:32	0231:50	38	58	407	2		
10352	35	89/02/04	0300:14	0300:51	67	55	675	2		
10353	35	89/02/04	0416:27	0417:38	367	39	1627	2		
10354	35	89/02/04	0527:29	0530:45	363	71	3889	2		
10355	35	89/02/04	0849:30	0849:37	63	44	315	2		
10356	35	89/02/04	0955:23	0955:51	3383	1750	1.02E+06	5	5354	SN,EN,DG,ND
10357	35	89/02/04	1528:53	1529:15	37	66	590	2		
10358	35	89/02/04	1618:42	1618:51	14	46	103	2		
10359	35	89/02/04	2056:37	2057:02	49	60	415	2		
11638	36	89/02/05	0153:21	0153:38	30	64	427	2		I ,EG
10360	36	89/02/05	0450:02	0450:38	49	56	361	2		
10361	36	89/02/05	0451:57	0452:08	20	38	100	2		
10362	36	89/02/05	0457:24	0458:29	449	139	7228	4	5354	
10363	36	89/02/05	0805:21	0805:40	102	348	5193	3		
11665	36	89/02/05	0917:15	0917:41	53	50	399	2		I
10364	36	89/02/05	1854:30	1855:23	512	48	942	2	5354	
10365	36	89/02/05	2011:44	2011:58	21	41	101	2		
10366	36	89/02/05	2220:32	2220:40	31	44	150	2		
10367	36	89/02/05	2329:39	2331:12	159	91	2871	2	5354	
10368	37	89/02/06	0004:32	0004:39	14	81	161	2	5354	
10369	37	89/02/06	0116:38	0116:55	30	48	173	2	5354	
10370	37	89/02/06	0252:09	0252:21	37	64	241	5	5354	
10371	37	89/02/06	0533:41	0534:08	162	502	11882	4	5354	M5
10373	37	89/02/06	0628:20	0628:31	22	63	150	2		
10372	37	89/02/06	0914:20	0919:56	1030	185	26532	2	5354	
11666	37	89/02/06	1106:46	1107:06	63	172	1511	3		I ,ND
10374	37	89/02/06	1334:01	1334:18	37	72	501	3		
10375	37	89/02/06	1336:14	1336:29	21	47	175	2		
10376	37	89/02/06	1641:47	1648:03	491	320	56395	8		
10377	37	89/02/06	1800:26	1800:37	27	194	1039	3	5354	
10384	37	89/02/06	2114:57	2115:11	24	42	106	2		
10378	37	89/02/06	2122:33	2122:56	193	102	2181	2		
10379	37	89/02/06	2317:59	2318:28	40	57	367	2	5347	
10380	38	89/02/07	0028:19	0028:41	110	112	3290	4		
10381	38	89/02/07	0053:00	0053:12	40	157	1184	3	5354	
10382	38	89/02/07	0210:00	0214:21	367	948	33225	4		M5
10383	38	89/02/07	0650:52	0652:22	112	131	2073	3	5354	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10386	38	89/02/07	1507:23	1507:37	49	64	617	2		
10385	38	89/02/07	1733:08	1733:31	50	55	580	2		
10387	38	89/02/07	1856:13	1856:24	73	44	303	2		SN
10388	38	89/02/07	1912:42	1913:10	68	72	1081	4	5355	
10389	39	89/02/08	0256:08	0256:16	41	108	1065	3		
11669	39	89/02/08	0441:02	0441:48	154	51	656	2		I
11670	39	89/02/08	0934:01	0934:34	69	65	816	2		I
11671	39	89/02/08	0943:49	0946:47	351	568	18200	6	5354	M5,I
10390	39	89/02/08	1105:50	1109:38	418	92	7084	3	5355	
10391	39	89/02/08	1954:05	2022:16	7963	661	3.02E+05	4	5354	M5,EN,IN,IS
10392	39	89/02/08	2300:06	2300:12	20	51	132	2		NS
11677	40	89/02/09	0234:43	0235:17	68	161	2300	2	5355	I
10395	40	89/02/09	1044:44	1044:52	16	61	133	2		
10399	40	89/02/09	1259:40	1300:03	882	23910	1.90E+06	15	5355	M5,SN,ES
10400	40	89/02/09	1925:24	1928:34	347	314	14436	3	5354	
10398	40	89/02/09	2049:31	2049:44	34	299	3014	3		
10401	41	89/02/10	0434:05	0434:44	2564	2797	4.92E+05	8	5355	M5,SN
11678	41	89/02/10	1221:49	1222:25	786	159	29691	5	5356	I ,SN,ES
10402	41	89/02/10	2031:10	2031:56	107	45	469	2	5356	
10404	42	89/02/11	1143:29	1146:12	672	52	4083	2	5355	SN,ES
10403	42	89/02/11	1457:22	1458:47	119	54	639	2	5354	
10405	44	89/02/13	0322:20	0323:53	245	267	12368	3	5354	M5
10407	44	89/02/13	0734:58	0741:59	648	48	3249	3		
10406	44	89/02/13	0751:50	0752:06	26	54	254	2		
10408	44	89/02/13	1206:49	1207:47	70	39	426	2	5356	
10409	44	89/02/13	1523:20	1523:26	17	51	86	2		
10410	44	89/02/13	1825:48	1826:16	61	67	930	4	5356	
10411	44	89/02/13	2122:25	2122:44	36	44	205	2	5354	
10412	44	89/02/13	2331:47	2331:59	212	103	1729	2	5356	
10413	44	89/02/13	2343:39	2344:14	68	41	325	2		
10414	45	89/02/14	0512:43	0514:34	166	56	1070	2	5354	
10415	45	89/02/14	0602:42	0603:03	208	633	12131	6	5356	
10416	45	89/02/14	0702:32	0709:53	573	60	2122	2	5354	
10417	45	89/02/14	1431:08	1431:18	27	49	177	2		
10418	45	89/02/14	1515:57	1518:45	371	63	3124	2		SA
10419	46	89/02/15	0045:57	0046:12	43	49	384	2		
10420	46	89/02/15	0325:14	0327:21	555	281	10837	4	5354	
10421	46	89/02/15	0438:56	0439:09	28	44	172	2		
10422	46	89/02/15	0822:08	0822:17	22	50	122	2		
10423	46	89/02/15	0830:52	0831:14	52	46	436	2		
10424	46	89/02/15	1847:51	1848:06	153	623	7386	7	5356	M5,FS
10425	46	89/02/15	2013:35	2014:00	53	45	316	2	5354	
10426	47	89/02/16	0308:47	0309:54	87	45	343	2	5368	
10427	47	89/02/16	0352:56	0353:06	102	40	407	2	5362	SN
10428	47	89/02/16	0421:16	0421:25	36	60	235	2		
10429	47	89/02/16	0422:54	0424:51	668	166	14208	2		
10430	47	89/02/16	0443:22	0443:26	9	46	91	2		
10431	47	89/02/16	0540:10	0540:25	34	81	497	2		
10432	47	89/02/16	1630:40	1631:52	248	1128	43797	5	5368	M5
10433	47	89/02/16	2108:55	2109:03	34	94	705	2	5368	
10434	47	89/02/16	2118:38	2118:41	24	47	163	2		
10435	47	89/02/16	2152:17	2153:31	133	90	2265	2	5362	
10436	48	89/02/17	0714:53	0715:35	57	37	250	2		
11683	48	89/02/17	1727:06	1727:14	39	49	168	2		I
10438	48	89/02/17	2213:01	2219:27	617	129	11377	3		
10439	49	89/02/18	0745:30	0747:09	336	136	7826	3		
10440	50	89/02/19	0059:25	0106:34	538	76	4010	2	5357	
10441	50	89/02/19	1346:13	1346:27	47	59	320	2	5366	M5
10442	50	89/02/19	2107:56	2110:28	570	49	1867	2	5368	
10443	51	89/02/20	0001:53	0002:00	23	168	804	4		
10444	51	89/02/20	1351:54	1356:48	306	266	28350	4	5368	M5,ES
10446	52	89/02/21	0535:50	0536:22	71	53	844	3		SA
10445	52	89/02/21	0548:50	0549:10	30	43	126	2		
10447	52	89/02/21	0920:27	0920:36	80	50	577	2		
10448	52	89/02/21	1206:29	1218:44	1491	200	64706	4	5368	M5,EN,SA
10449	52	89/02/21	1350:29	1350:53	44	61	439	2		
10450	52	89/02/21	1749:35	1821:16	2408	156	6900	2	5368	IS
10451	52	89/02/21	2127:30	2144:20	1423	53	7380	2	5368	EN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10452	52	89/02/21	2235:25	2236:15	85	47	397	2	5374	
10453	52	89/02/21	2239:50	2239:55	21	84	181	2		
10454	53	89/02/22	0001:37	0001:56	32	43	129	2		
10455	53	89/02/22	0009:16	0009:56	112	51	584	2		
10456	53	89/02/22	0036:44	0037:18	72	56	586	3		
10457	53	89/02/22	0212:16	0212:22	28	216	895	3		
10458	53	89/02/22	0332:16	0332:27	30	77	402	3	5368	
10459	53	89/02/22	0334:13	0334:18	29	42	147	2		
10460	53	89/02/22	0355:14	0355:19	24	53	194	2		
10461	53	89/02/22	0816:24	0816:31	30	42	102	2		
10462	53	89/02/22	0817:27	0817:40	41	45	279	2		
10463	53	89/02/22	0820:15	0820:41	38	44	218	2		
10464	53	89/02/22	1617:06	1617:18	22	43	88	2	5368	
10465	53	89/02/22	1922:32	1922:46	74	105	882	2		
10466	53	89/02/22	2153:59	2155:57	402	48	2534	3		
10467	54	89/02/23	0447:03	0454:00	537	45	1662	2		
10468	54	89/02/23	1714:12	1717:12	362	53	2297	2	5368	
10469	54	89/02/23	1722:14	1723:11	86	42	343	2		
10470	54	89/02/23	1945:07	1947:21	255	91	4359	2	5368	
10471	54	89/02/23	2107:09	2109:51	837	47	5503	4		
10472	55	89/02/24	0330:41	0332:10	238	129	11980	5		
10473	55	89/02/24	1925:51	1926:01	14	41	86	2		
10474	55	89/02/24	1946:21	1947:07	103	254	2697	13	5368	FS
12775	55	89/02/24	1947:03	1947:06	16	286	1360	13		FS,NS,GB
10475	55	89/02/24	2106:08	2109:01	289	50	1359	2	5368	
10476	55	89/02/24	2259:30	2300:07	54	1763	11686	5	5368	
10477	55	89/02/24	2359:05	2359:17	52	53	362	2	5377	
10478	56	89/02/25	0112:08	0118:29	1056	115	18679	4	5380	
10479	56	89/02/25	0336:17	0336:37	52	124	1372	2	5368	
11739	56	89/02/25	0502:33	0502:39	30	101	682	6		I
11740	56	89/02/25	0747:58	0748:20	55	71	653	2		I
10480	56	89/02/25	1113:53	1113:59	18	56	133	2		
10481	56	89/02/25	1115:08	1115:25	56	48	334	2		
10482	56	89/02/25	1601:16	1601:26	21	48	197	2		
10483	56	89/02/25	2154:16	2155:31	109	270	4900	4	5368	
10484	56	89/02/25	2327:30	2327:55	78	310	6138	4		
10485	57	89/02/26	0054:33	0055:06	53	51	668	2		
10486	57	89/02/26	1654:24	1654:45	80	44	337	2	5379	
10487	58	89/02/27	0134:38	0137:05	311	176	7966	2	5379	
10488	58	89/02/27	0636:05	0636:33	95	51	857	2	5373	
10489	59	89/02/28	0413:28	0414:05	128	53	1154	2		
10490	59	89/02/28	1647:08	1647:37	161	43	432	2	5378	
10491	59	89/02/28	1709:09	1709:53	75	65	809	2	5378	
10492	59	89/02/28	1811:47	1817:50	1372	243	39714	6	5373	
10493	59	89/02/28	2139:26	2142:27	469	281	12992	7	5380	
10494	59	89/02/28	2321:45	2322:31	90	94	1872	2	5378	
10495	60	89/03/01	0846:29	0846:33	7	60	66	3		
10496	60	89/03/01	0847:05	0847:29	38	72	284	2		
10497	60	89/03/01	1018:13	1019:37	112	43	454	2		
10498	60	89/03/01	2101:00	2101:08	18	53	161	2	5378	
10499	60	89/03/01	2225:46	2226:29	133	40	469	2		
10500	60	89/03/01	2359:40	0000:49	230	188	8137	5	5378	
10501	61	89/03/02	0613:37	0614:40	409	661	25725	5		M5
10502	61	89/03/02	0800:58	0801:23	55	46	532	3		
10503	61	89/03/02	0910:07	0910:42	93	85	1960	3	5383	
10504	61	89/03/02	1837:34	1839:43	260	53	2560	2		
10505	62	89/03/03	0022:10	0022:45	75	66	733	4	5385	
10506	62	89/03/03	0702:26	0707:34	1204	233	39560	4		
10507	62	89/03/03	0824:19	0824:34	1921	65	20992	3		SA
10508	63	89/03/04	0454:44	0455:31	164	100	3728	3	5388	
10509	63	89/03/04	1849:59	1850:14	70	42	321	2		
10510	63	89/03/04	2210:51	2211:24	197	94	1903	2		
10511	64	89/03/05	0125:29	0126:44	145	47	947	2	5379	
10518	64	89/03/05	0214:24	0215:24	717	262	23313	3		
10512	64	89/03/05	0352:38	0352:57	38	63	428	2		
10516	64	89/03/05	0909:56	0912:14	578	114	9036	2		EN,DG
10513	64	89/03/05	1032:42	1033:29	60	40	230	2		
10514	64	89/03/05	1036:39	1041:00	373	99	7241	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10515	64	89/03/05	1441:09	1441:33	36	48	340	2		
10517	64	89/03/05	1631:03	1631:13	20	52	183	3		
11092	64	89/03/05	1825:44	1833:10	547	96	9510	3		I
10519	64	89/03/05	1915:03	1918:53	488	260	12762	3		SG
10520	64	89/03/05	1944:21	1951:03	880	207	18463	3	5394	
10521	64	89/03/05	2048:22	2049:20	122	99	1792	2	5395	
10522	64	89/03/05	2053:36	2054:05	54	52	499	2		
10523	64	89/03/05	2059:19	2059:28	22	39	110	2		
10524	64	89/03/05	2101:48	2103:23	167	144	4119	3	5395	
10525	64	89/03/05	2111:00	2115:18	713	195	14225	3		
10534	64	89/03/05	2132:24	2133:34	320	838	68897	5		M5,I
11093	64	89/03/05	2227:00	2227:38	51	42	183	2		I
11094	64	89/03/05	2257:22	2257:34	24	56	269	2		I
11095	64	89/03/05	2312:30	2314:40	159	57	977	2		I
11096	64	89/03/05	2355:07	2357:05	174	62	1268	2	5379	I
10526	65	89/03/06	0015:21	0016:27	79	51	711	2		
10527	65	89/03/06	0017:39	0019:12	188	51	848	2	5395	
10528	65	89/03/06	0024:04	0024:25	71	45	213	2		
10529	65	89/03/06	0034:54	0035:28	164	230	8891	3		
10530	65	89/03/06	0045:26	0045:49	37	44	158	2		
10531	65	89/03/06	0048:02	0049:01	123	71	924	2		
10532	65	89/03/06	0051:43	0052:54	97	63	1089	2	5395	
10533	65	89/03/06	0137:48	0138:45	94	50	393	2		
11105	65	89/03/06	0312:07	0318:36	817	517	51900	3		I
11106	65	89/03/06	0333:16	0333:51	61	126	887	2		I
11107	65	89/03/06	0338:36	0338:43	20	76	244	2		I
11108	65	89/03/06	0345:56	0346:28	61	70	713	3	5395	I
11110	65	89/03/06	0359:01	0359:32	71	35	342	2		I
11111	65	89/03/06	0451:36	0451:45	27	50	170	3		I
11112	65	89/03/06	0453:29	0453:37	41	49	183	2		I
11113	65	89/03/06	0618:37	0620:35	1176	112	9400	2	5395	I ,SA
11114	65	89/03/06	0640:49	0641:15	42	38	110	2		I
11115	65	89/03/06	0644:16	0644:17	70	54	383	2		I ,SG
11116	65	89/03/06	0654:29	0654:38	17	104	232	3		I
11117	65	89/03/06	0659:14	0659:20	15	76	191	3		I
10535	65	89/03/06	0956:41	0956:57	28	65	358	2		
10536	65	89/03/06	1010:12	1010:38	71	61	564	2		
10537	65	89/03/06	1012:03	1013:09	95	63	515	2		
11118	65	89/03/06	1133:33	1134:37	603	430	24600	5		I
11120	65	89/03/06	1229:09	1229:46	53	48	364	3		I
11121	65	89/03/06	1231:30	1232:02	125	38	414	3	5395	I
11122	65	89/03/06	1314:58	1315:31	78	338	4140	4		I
10538	65	89/03/06	1355:15	1402:59	14724	185926	1.57E+08	15	5395	M5,I ,SN,EN,IN DG
12772	65	89/03/06	1651:29	1651:31	6	60	63	15		NS,GB
10541	65	89/03/06	1842:46	1843:31	168	152	5152	3		
10542	65	89/03/06	1919:57	1922:10	164	126	1123	3		
10543	65	89/03/06	1923:42	1923:56	44	132	1035	3		
10544	65	89/03/06	1924:48	1925:28	52	56	327	3		
11102	65	89/03/06	2046:16	2046:28	31	98	833	4		I
11109	65	89/03/06	2048:53	2048:58	11	59	88	2		I
11103	65	89/03/06	2049:30	2049:57	246	74	1990	2		I
10548	65	89/03/06	2215:41	2216:23	477	48	2790	2	5395	
10549	65	89/03/06	2226:10	2226:27	53	75	479	2		
10550	65	89/03/06	2349:26	2350:06	387	154	3226	4	5395	
10551	65	89/03/06	2357:17	2357:50	41	67	358	2	5395	
10552	65	89/03/06	2359:25	0003:24	711	102	8388	4		
10553	66	89/03/07	0049:27	0049:47	40	46	161	2		
10554	66	89/03/07	0051:59	0053:11	153	51	530	2		
10555	66	89/03/07	0059:58	0101:37	206	98	2491	3		
10556	66	89/03/07	0104:09	0104:34	67	56	248	2		
10557	66	89/03/07	0300:06	0301:27	161	847	16641	7		M5
10558	66	89/03/07	0429:53	0431:29	163	42	579	2		
10559	66	89/03/07	0544:55	0551:35	599	163	13411	3		
10560	66	89/03/07	0555:14	0557:46	477	42780	5.43E+05	15	5395	M5,EG
10561	66	89/03/07	0607:07	0609:16	253	64	2063	2		
10562	66	89/03/07	0623:59	0624:55	117	60	472	2		
10563	66	89/03/07	0722:58	0725:04	189	277	8953	6	5395	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10564	66	89/03/07	0739:36	0739:53	53	52	431	2		
10565	66	89/03/07	0753:19	0753:44	35	37	147	2		
10566	66	89/03/07	0909:24	0910:16	187	244	3945	7	5395	M5
10567	66	89/03/07	0912:48	0913:05	68	306	2003	5		M5
10568	66	89/03/07	0916:29	0916:51	81	48	174	2		
10569	66	89/03/07	0919:38	0920:09	61	106	552	3		
10570	66	89/03/07	1025:31	1025:36	16	48	140	2		
10571	66	89/03/07	1058:11	1058:25	25	43	71	2		
10572	66	89/03/07	1143:11	1147:11	449	273	19025	5		
10573	66	89/03/07	1155:01	1155:16	291	51	944	2		
10574	66	89/03/07	1210:56	1211:16	39	43	129	2		
10575	66	89/03/07	1217:15	1218:52	144	46	722	2	5395	
10576	66	89/03/07	1317:01	1319:08	668	19520	1.16E+06	15	5395	M5
10577	66	89/03/07	1330:22	1330:30	78	70	1143	3		
10578	66	89/03/07	1336:48	1336:52	9	44	60	2		
10579	66	89/03/07	1339:49	1340:49	374	1020	40044	6	5395	
10580	66	89/03/07	1449:15	1449:24	18	88	341	2		
10581	66	89/03/07	1450:38	1454:40	964	18120	4.03E+06	15	5395	M5
10582	66	89/03/07	1532:32	1532:42	37	104	254	2		
10583	66	89/03/07	1533:46	1533:59	108	44	369	2		
10584	66	89/03/07	1536:49	1537:32	61	66	714	2	5395	
10585	66	89/03/07	1628:53	1629:09	27	38	62	2		
10586	66	89/03/07	1641:41	1642:29	161	62	797	2		
10587	66	89/03/07	1650:30	1700:13	1225	725	1.13E+05	7	5395	M5
10588	66	89/03/07	1820:16	1820:27	17	154	476	4		
10589	66	89/03/07	1821:54	1822:14	35	61	256	4		
10590	66	89/03/07	1841:39	1841:45	122	42	271	2		
10591	66	89/03/07	1944:15	1944:32	40	49	370	2		
10592	66	89/03/07	1947:15	1947:53	45	56	396	2	5395	
10593	66	89/03/07	2003:39	2003:47	29	45	271	2		DG
10594	66	89/03/07	2104:44	2105:22	115	1033	23510	14	5379	M5
10595	66	89/03/07	2108:34	2110:29	173	60	1455	2		
10596	66	89/03/07	2120:42	2123:02	230	126	2774	3		
10597	66	89/03/07	2142:02	2142:42	59	52	461	2		
10598	66	89/03/07	2143:51	2144:03	71	70	834	3		
10611	66	89/03/07	2235:52	2245:27	1033	2703	1.44E+05	8	5395	M5,SN
10612	66	89/03/07	2254:44	2255:12	70	55	350	3		
10613	66	89/03/07	2257:10	2257:49	67	54	371	3		
10614	66	89/03/07	2305:02	2306:57	168	51	597	2		
10615	66	89/03/07	2310:32	2310:46	60	51	270	7		
10676	67	89/03/08	0123:08	0123:24	26	49	212	2	5395	
10616	67	89/03/08	0147:51	0148:09	47	434	5145	8	5395	FS
10617	67	89/03/08	0149:29	0150:39	82	434	2478	5		FS
10618	67	89/03/08	0200:40	0200:44	10	43	60	2		
10619	67	89/03/08	0201:08	0201:21	22	174	785	2		
10620	67	89/03/08	0212:05	0214:09	176	528	19612	6	5395	M5
10630	67	89/03/08	0218:55	0219:04	24	55	248	2		
10599	67	89/03/08	0318:14	0318:30	30	53	174	2	5395	
10600	67	89/03/08	0319:24	0319:35	21	57	132	2		
10601	67	89/03/08	0322:18	0322:35	52	46	211	2		
10602	67	89/03/08	0324:03	0325:10	175	107	2490	3		
10603	67	89/03/08	0329:09	0329:20	29	46	139	2		
10604	67	89/03/08	0336:55	0337:09	15	40	80	2		
10605	67	89/03/08	0349:15	0349:47	129	233	2561	4		
10606	67	89/03/08	0407:14	0407:48	42	52	249	2		
10607	67	89/03/08	0409:19	0409:26	18	62	154	2		
10608	67	89/03/08	0455:42	0456:44	160	296	7475	5	5395	
10609	67	89/03/08	0504:07	0504:32	84	210	1907	4		FS
10610	67	89/03/08	0507:18	0507:28	28	50	207	2	5395	
10621	67	89/03/08	0520:47	0522:32	564	530	15297	4	5395	
10627	67	89/03/08	0636:48	0636:52	16	53	109	2		
10628	67	89/03/08	0648:32	0648:37	14	55	93	2		
10629	67	89/03/08	0654:25	0654:33	23	42	122	2		
10631	67	89/03/08	0658:05	0658:53	93	77	1255	2		
10632	67	89/03/08	0808:21	0808:25	20	55	271	2		
10633	67	89/03/08	0825:17	0832:38	1387	3506	4.67E+05	5	5395	
10642	67	89/03/08	0853:59	0854:08	21	51	81	3		
10622	67	89/03/08	1011:31	1011:40	12	63	96	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10623	67	89/03/08	1237:32	1238:52	262	2052	30881	8		M5
10624	67	89/03/08	1302:35	1303:08	83	544	6567	5		
10625	67	89/03/08	1309:24	1313:32	480	906	39244	6	5395	
10626	67	89/03/08	1329:35	1329:55	81	60	705	2		
10636	67	89/03/08	1412:12	1412:28	56	56	608	2		
10637	67	89/03/08	1422:37	1422:55	126	116	2983	3		
10638	67	89/03/08	1430:06	1431:04	105	249	4720	3		
10639	67	89/03/08	1438:51	1439:38	242	705	11839	5		M5
10640	67	89/03/08	1446:15	1447:13	129	219	86241	9	5395	
10635	67	89/03/08	1458:35	1458:43	17	66	175	2		
10634	67	89/03/08	1601:54	1602:01	19	50	163	2		
10641	67	89/03/08	1623:20	1623:30	48	42	321	2		
10643	67	89/03/08	1804:19	1808:30	345	223	4707	3	5395	M5,FS
10644	67	89/03/08	1851:49	1854:51	905	14560	1.00E+06	10		M5
10645	67	89/03/08	1910:55	1911:24	87	89	1005	3		
10646	67	89/03/08	1916:16	1916:39	47	77	412	2		
10647	67	89/03/08	2024:42	2024:49	35	53	298	2		
10648	67	89/03/08	2049:32	2050:00	54	41	212	2	5395	
10672	67	89/03/08	2233:48	2234:08	33	52	234	2	5398	
10673	67	89/03/08	2238:21	2238:26	11	95	184	2		
10674	67	89/03/08	2246:25	2246:32	33	133	430	3	5395	
10675	67	89/03/08	2341:32	2341:55	40	40	136	2		
10649	67	89/03/08	2345:53	2346:08	58	44	372	2		
10650	68	89/03/09	0149:08	0149:43	337	156	3943	3		
10651	68	89/03/09	0157:45	0157:50	22	42	105	2		
10659	68	89/03/09	0238:00	0241:52	933	2583	1.01E+05	7	5395	M5,FS
10660	68	89/03/09	0259:07	0312:59	1511	742	60304	5	5395	FS
10661	68	89/03/09	0419:50	0419:58	21	54	188	2		
10662	68	89/03/09	0433:12	0433:23	45	137	1038	3	5395	
10663	68	89/03/09	0451:21	0458:11	652	76	6848	3	5394	
10652	68	89/03/09	0617:59	0618:05	44	53	322	2		
10653	68	89/03/09	0620:52	0620:57	25	98	859	3		ND
10654	68	89/03/09	0624:48	0624:52	23	47	122	2		
10655	68	89/03/09	0627:26	0627:47	32	45	164	2		
10656	68	89/03/09	0735:26	0735:36	18	43	79	2		
10657	68	89/03/09	0744:16	0750:56	802	117	5689	3		
10658	68	89/03/09	0804:37	0805:42	175	62	1601	2		
10664	68	89/03/09	0903:18	0903:43	35	56	345	2		
10665	68	89/03/09	0925:18	0925:28	214	89	1356	3	5395	
10666	68	89/03/09	0934:58	0944:32	614	52	1424	2	5395	
10667	68	89/03/09	1026:31	1027:23	80	35	241	2		
10668	68	89/03/09	1030:05	1031:04	158	37	600	2		
10669	68	89/03/09	1034:12	1035:28	92	52	275	2		
10670	68	89/03/09	1046:51	1047:08	76	60	474	3		
10671	68	89/03/09	1105:16	1105:28	43	42	190	2		
10677	68	89/03/09	1330:04	1331:13	248	222	5735	4	5395	SN,DG,ND
10678	68	89/03/09	1351:59	1352:27	84	54	632	3		
10681	68	89/03/09	1516:40	1535:55	1716	40100	1.54E+07	13	5395	M5
10682	68	89/03/09	1550:37	1551:05	123	45	845	2		
10679	68	89/03/09	1642:09	1642:30	29	46	120	2	5399	
10680	68	89/03/09	1655:44	1655:56	67	72	705	2	5395	
10683	68	89/03/09	1657:26	1658:31	133	45	738	2	5395	
10684	68	89/03/09	1717:43	1718:51	127	262	3580	4		
10685	68	89/03/09	1815:22	1816:45	132	43	832	2		
10686	68	89/03/09	1829:43	1830:20	98	57	1017	2		
10687	68	89/03/09	1846:56	1847:29	87	72	1128	2		
10688	68	89/03/09	1900:43	1900:49	28	46	199	2		
10689	68	89/03/09	2020:15	2020:19	15	50	148	2	5394	
10690	68	89/03/09	2120:34	2120:52	117	56	1090	2	5395	
10691	68	89/03/09	2136:44	2136:54	30	160	543	3		
10692	68	89/03/09	2151:10	2151:43	161	41	465	2		
10693	68	89/03/09	2158:18	2158:23	17	48	152	2		
10710	68	89/03/09	2257:28	2257:31	10	53	102	2	5397	
10711	68	89/03/09	2304:00	2304:18	42	38	197	2		
10694	68	89/03/09	2307:12	2313:04	1145	1111	1.62E+05	6	5395	M5
10712	68	89/03/09	2333:04	2333:44	594	422	16298	4		
10695	69	89/03/10	0037:36	0037:58	48	241	2355	4		
10696	69	89/03/10	0101:29	0101:52	35	67	650	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10697	69	89/03/10	0107:40	0108:11	129	49	432	2		
10698	69	89/03/10	0111:22	0113:09	276	62	2952	2	5395	
10700	69	89/03/10	0201:59	0202:37	182	45	677	2		
10699	69	89/03/10	0225:05	0225:21	37	68	245	2		
10701	69	89/03/10	0234:59	0236:32	393	835	66622	5	5395	
10702	69	89/03/10	0343:55	0344:29	58	50	187	2		
10703	69	89/03/10	0352:51	0353:14	140	158	4246	3	5395	
10704	69	89/03/10	0400:55	0401:19	68	97	1814	4		
10705	69	89/03/10	0404:54	0405:12	86	110	2568	4		
10706	69	89/03/10	0407:12	0407:18	39	73	520	3		
10707	69	89/03/10	0409:53	0410:40	74	43	443	2		
10708	69	89/03/10	0528:23	0528:35	35	43	199	2		
10709	69	89/03/10	0537:00	0537:23	51	50	184	2		
10717	69	89/03/10	0645:11	0645:33	50	45	336	2	5395	
10718	69	89/03/10	0653:50	0654:05	35	86	700	3		
10719	69	89/03/10	0656:35	0656:39	13	43	101	2		
10720	69	89/03/10	0659:16	0659:28	25	61	317	3		
10721	69	89/03/10	0702:17	0702:41	91	171	2046	3	5395	
10722	69	89/03/10	0706:29	0706:43	45	49	276	3		
10723	69	89/03/10	0718:34	0718:51	41	41	180	2		
10713	69	89/03/10	0733:47	0733:54	20	159	1028	5	5395	
10724	69	89/03/10	0817:00	0818:23	216	94	4031	3	5395	SA
10725	69	89/03/10	0822:40	0822:55	23	46	120	2		
10726	69	89/03/10	0836:46	0837:25	130	87	1925	2		
10727	69	89/03/10	0841:20	0841:24	14	51	144	2		
10728	69	89/03/10	0849:35	0849:49	26	64	347	2		
11148	69	89/03/10	1011:41	1011:58	67	112	3048	2		I ,EG,ND
11149	69	89/03/10	1014:41	1014:52	30	68	705	2		I ,ND
11150	69	89/03/10	1028:13	1029:06	122	50	1769	2		I
11151	69	89/03/10	1037:41	1038:20	262	659	18350	4		I ,DG,ND
10714	69	89/03/10	1116:58	1128:05	1909	594	1.40E+05	4	5395	M5
10715	69	89/03/10	1155:05	1155:14	33	46	228	2		I
10716	69	89/03/10	1202:03	1203:07	275	63	2311	4		
10729	69	89/03/10	1259:02	1259:20	36	58	304	2		
10730	69	89/03/10	1302:08	1307:00	609	57	4010	2	5395	
10731	69	89/03/10	1347:25	1347:59	83	94	1473	3	5395	M5
10732	69	89/03/10	1434:42	1436:44	157	45	504	2	5395	
10733	69	89/03/10	1500:38	1501:23	82	45	331	2	5395	
10734	69	89/03/10	1517:17	1517:43	78	39	294	2		
10735	69	89/03/10	1521:10	1521:14	15	83	239	2	5395	
10736	69	89/03/10	1557:32	1558:56	185	115	2585	3		
10737	69	89/03/10	1643:49	1646:48	701	331	14897	4		
10739	69	89/03/10	1730:56	1731:38	67	67	659	2		
10738	69	89/03/10	1734:25	1735:28	651	554	26714	3	5395	M5
10740	69	89/03/10	1752:16	1752:24	61	49	360	2		
10741	69	89/03/10	1903:28	1912:38	8454	74850	6.43E+07	15	5395	M5,SN,EN,IN,IS
10742	69	89/03/10	2216:07	2220:02	624	146	14596	3		
10743	69	89/03/10	2248:52	2248:58	42	46	240	2		
10744	70	89/03/11	0009:44	0009:55	174	56	1377	2		
10745	70	89/03/11	0015:17	0015:37	44	154	1762	3		
10746	70	89/03/11	0016:28	0016:47	32	77	431	2		
10747	70	89/03/11	0017:35	0017:41	16	38	103	2		
10748	70	89/03/11	0023:28	0023:37	18	41	94	2		
10749	70	89/03/11	0030:50	0033:48	365	129	7574	4	5395	ES
10750	70	89/03/11	0127:31	0127:36	15	86	217	2		
10751	70	89/03/11	0145:50	0146:13	79	55	455	2		
10752	70	89/03/11	0151:24	0151:28	9	78	121	3		
10753	70	89/03/11	0152:18	0154:36	213	349	9086	4	5395	
10754	70	89/03/11	0201:52	0204:00	206	160	5319	2		
10755	70	89/03/11	0303:07	0304:02	186	66	1850	4		
10756	70	89/03/11	0329:13	0331:49	277	2588	99126	7	5395	M5
10757	70	89/03/11	0336:07	0342:22	766	626	53092	5		
10758	70	89/03/11	0431:08	0431:35	54	675	6348	6		M5
10759	70	89/03/11	0453:08	0453:18	40	156	1345	5		
10760	70	89/03/11	0503:39	0504:40	70	114	392	3	5395	
11152	70	89/03/11	0507:11	0507:34	30	43	150	2	5395	I
11153	70	89/03/11	0514:06	0520:44	492	1253	1.43E+05	6	5395	I
10761	70	89/03/11	0603:30	0603:40	48	46	158	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10762	70	89/03/11	0625:07	0625:11	29	90	162	3		
10763	70	89/03/11	0639:27	0639:51	45	69	217	2		
10764	70	89/03/11	0642:15	0645:49	446	810	35740	6	5395	M5
10765	70	89/03/11	0653:30	0653:38	96	156	1309	4		
10766	70	89/03/11	0740:44	0740:59	32	56	337	3		
10767	70	89/03/11	0759:51	0800:26	228	147	5701	5		
10768	70	89/03/11	0809:39	0809:59	40	66	587	3		
10769	70	89/03/11	0827:38	0827:52	44	64	472	4		
10770	70	89/03/11	0903:57	0904:12	139	480	19278	5		SN
10771	70	89/03/11	0908:51	0909:14	65	100	1212	3		
10772	70	89/03/11	0929:46	0930:06	32	108	947	3		
10773	70	89/03/11	0939:53	0940:12	243	73	4231	2		
10774	70	89/03/11	0946:00	0946:16	43	42	229	2		
10775	70	89/03/11	1040:51	1041:04	48	62	275	2	5395	
10776	70	89/03/11	1045:51	1047:10	129	49	894	2		
10777	70	89/03/11	1050:55	1051:08	86	54	396	2		
10778	70	89/03/11	1053:33	1053:58	246	106	2116	2		
10779	70	89/03/11	1125:59	1126:44	72	135	1155	3		
10780	70	89/03/11	1220:28	1225:59	808	138	14906	2	5395	
10781	70	89/03/11	1251:41	1251:50	25	221	946	3	5398	
10782	70	89/03/11	1345:58	1346:15	30	51	222	2		
10783	70	89/03/11	1401:30	1405:09	543	374	30843	3	5395	
10784	70	89/03/11	1414:34	1414:52	22	38	98	2		
10785	70	89/03/11	1522:11	1523:09	71	233	2878	4	5398	
10786	70	89/03/11	1524:04	1524:24	41	848	405	4		
10787	70	89/03/11	1534:12	1537:04	944	9388	8.69E+05	10	5395	M5,I ,FS
10788	70	89/03/11	1552:45	1553:21	94	139	1061	3		
10789	70	89/03/11	1554:30	1555:35	76	354	1853	4		
10790	70	89/03/11	1612:51	1613:18	55	145	1796	4		
10791	70	89/03/11	1710:38	1710:54	58	107	878	2		
10792	70	89/03/11	1716:10	1716:40	38	57	301	2		
10793	70	89/03/11	1720:01	1720:29	36	45	186	2	5395	
10794	70	89/03/11	1726:44	1727:13	38	56	266	2	5395	
10795	70	89/03/11	1728:53	1730:51	247	260	6310	5	5395	DG
10796	70	89/03/11	1739:40	1741:10	236	105	5847	3		
10797	70	89/03/11	1824:59	1848:03	2556	710	24710	6		M5,SN,ES,FS
10798	70	89/03/11	1957:22	1957:32	51	143	1795	5		SN
10799	70	89/03/11	2004:53	2005:14	58	42	238	2		
10800	70	89/03/11	2011:17	2011:32	32	61	349	2		
10801	70	89/03/11	2027:40	2027:50	23	87	540	2		
10802	70	89/03/11	2149:32	2149:35	13	55	180	2		
10803	70	89/03/11	2312:08	2313:31	197	183	4838	3		
10804	70	89/03/11	2341:17	2341:54	141	45	748	2		
10811	71	89/03/12	0038:39	0038:57	27	51	183	2	5395	
10812	71	89/03/12	0042:18	0042:38	30	80	313	2		
10813	71	89/03/12	0044:37	0044:51	254	138	3680	3		
10814	71	89/03/12	0112:12	0113:07	104	50	1003	2		
10805	71	89/03/12	0216:39	0218:42	141	57	476	2		
10806	71	89/03/12	0221:34	0221:37	78	67	453	2		
10807	71	89/03/12	0241:18	0242:24	285	46	1589	3		DG
10808	71	89/03/12	0300:11	0300:43	72	69	905	2	5395	M5,ND
10809	71	89/03/12	0402:14	0402:30	19	49	113	2	5385	
10810	71	89/03/12	0411:09	0411:23	20	42	69	2		
10832	71	89/03/12	0519:57	0520:10	24	42	145	2		
10833	71	89/03/12	0521:17	0525:00	624	1280	24232	5	5395	M5,FS
10834	71	89/03/12	0535:49	0553:25	1188	804	9470	5		FS
10835	71	89/03/12	0605:42	0607:15	187	72	2186	2	5395	
10815	71	89/03/12	0656:06	0656:51	136	43	474	2		
10816	71	89/03/12	0731:49	0736:39	493	259	11623	4	5395	
10817	71	89/03/12	0746:52	0747:03	21	38	122	2		
10818	71	89/03/12	0824:04	0839:40	2621	2817	6.05E+05	10	5395	M5,SN,DG,FS
10819	71	89/03/12	1014:54	1015:05	67	46	358	2		
10820	71	89/03/12	1141:18	1141:39	38	150	1110	3		
10821	71	89/03/12	1143:35	1143:49	27	301	1714	3		
10822	71	89/03/12	1214:14	1214:27	46	49	178	2		
10823	71	89/03/12	1224:31	1225:01	127	157	3598	4		
10824	71	89/03/12	1228:01	1228:13	51	76	919	2		
10825	71	89/03/12	1306:52	1308:36	1052	51	5222	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10826	71	89/03/12	1451:25	1501:54	2089	3233	4.36E+05	10	5395	M5
10827	71	89/03/12	1610:57	1621:54	854	1553	71970	6		M5,SN,FS
10828	71	89/03/12	1631:03	1633:53	305	175	5268	5		
10829	71	89/03/12	1644:22	1646:23	152	768	15393	6		FS
10830	71	89/03/12	1754:52	1754:59	27	64	249	2		
10831	71	89/03/12	1813:45	1818:38	319	57	780	4		
10836	71	89/03/12	1935:36	1936:08	72	64	844	3		
10837	71	89/03/12	1940:56	1942:01	155	39	786	3	5395	
10838	71	89/03/12	2050:31	2116:18	2069	5708	5.62E+05	8		M5,SN
10839	71	89/03/12	2134:19	2134:37	30	74	418	2		
10840	71	89/03/12	2224:04	2226:03	320	80	5350	2	5395	SN
10841	71	89/03/12	2257:32	2257:49	45	64	504	2		
10842	72	89/03/13	0002:32	0002:46	30	40	105	2		
10843	72	89/03/13	0014:56	0015:24	132	68	1048	2		
10844	72	89/03/13	0023:39	0023:47	26	50	168	2		
10845	72	89/03/13	0024:56	0026:56	188	192	5620	3	5395	
10846	72	89/03/13	0036:52	0037:30	55	75	687	2		
10847	72	89/03/13	0038:54	0042:28	251	59	1882	2	5395	ND
10848	72	89/03/13	0049:11	0049:20	32	41	96	2		
10849	72	89/03/13	0131:02	0135:18	1593	644	54040	3	5395	M5,FS
10850	72	89/03/13	0303:37	0316:51	3514	4111	2.43E+06	8	5395	M5,I ,SN,EN
11158	72	89/03/13	0441:29	0441:46	37	134	525	3		I
11159	72	89/03/13	0444:56	0445:58	158	64	1950	2	5395	I
11160	72	89/03/13	0504:23	0504:38	41	49	206	2	5395	I
11161	72	89/03/13	0506:05	0506:37	33	42	137	2		I
11162	72	89/03/13	0532:18	0532:36	60	221	1420	3	5395	I
11163	72	89/03/13	0622:28	0623:26	101	113	1310	2		I
11164	72	89/03/13	0625:10	0628:10	461	839	37500	5	5395	M5,I
11168	72	89/03/13	0637:49	0638:36	110	73	1687	2	5395	I
11169	72	89/03/13	0640:10	0640:56	75	56	585	2		I
11170	72	89/03/13	0702:23	0703:08	366	105	11000	3	5395	I
10851	72	89/03/13	0744:51	0745:02	75	138	1353	3		
10852	72	89/03/13	0757:04	0757:15	37	48	261	2		
10853	72	89/03/13	0800:04	0800:28	186	88	1467	2		
10854	72	89/03/13	0824:34	0824:59	150	334	2974	4	5395	FS
10855	72	89/03/13	0828:46	0829:31	222	57	1141	2		
10856	72	89/03/13	0926:04	0926:34	76	41	212	2		
10857	72	89/03/13	0934:23	0934:40	133	66	932	2		
10858	72	89/03/13	0942:00	0943:47	151	66	1738	2		
10859	72	89/03/13	0946:30	0946:40	16	77	173	2		
10860	72	89/03/13	0947:47	0947:53	58	680	6930	4	5395	M5
10861	72	89/03/13	0949:26	0949:56	43	64	532	2		
10862	72	89/03/13	0957:45	0957:53	32	50	149	2		
10863	72	89/03/13	1001:23	1001:40	38	295	1930	5		
10864	72	89/03/13	1005:52	1006:32	65	45	334	2		
10865	72	89/03/13	1048:36	1050:42	243	56	1234	3		DG
10866	72	89/03/13	1105:38	1107:24	205	91	2324	4		
10867	72	89/03/13	1111:25	1111:42	78	38	415	2	5395	
10868	72	89/03/13	1115:50	1115:55	9	67	100	3	5395	
10869	72	89/03/13	1119:13	1119:26	48	47	200	2	5395	
10870	72	89/03/13	1124:33	1126:05	103	42	296	2		
10871	72	89/03/13	1142:08	1146:25	428	158	11501	4	5395	
10872	72	89/03/13	1224:53	1225:02	30	377	1237	5		M5,FS
10873	72	89/03/13	1227:43	1231:32	272	63	1807	2		
10874	72	89/03/13	1235:15	1236:42	164	85	1838	2		
10875	72	89/03/13	1256:52	1312:42	1541	275	40816	4	5395	EN
10876	72	89/03/13	1400:03	1407:37	1274	86	12080	5		SN
10877	72	89/03/13	1433:52	1434:42	97	61	883	3		
10878	72	89/03/13	1534:36	1543:12	1078	274	47342	7	5395	DG,AX
10882	72	89/03/13	1642:29	1642:42	28	58	258	4		NS
10883	72	89/03/13	1644:15	1644:40	33	54	287	4		NS
10879	72	89/03/13	1707:55	1720:15	1245	97	10294	5		SN
10880	72	89/03/13	1734:18	1736:16	352	183	11312	3	5395	
10881	72	89/03/13	1837:10	1859:13	1603	60	15938	5		SN
10884	73	89/03/14	0223:20	0224:42	3027	464	1.47E+05	6	5395	ES
10885	73	89/03/14	0424:00	0424:06	21	43	134	2		
10886	73	89/03/14	0558:29	0558:48	30	40	118	2		
10887	73	89/03/14	0616:23	0617:48	490	123	5774	2	5395	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10888	73	89/03/14	0856:08	0856:25	64	127	1280	4		
10889	73	89/03/14	0915:37	0919:35	312	61	1692	2	5395	
10890	73	89/03/14	1147:07	1147:22	23	47	149	2		
10891	73	89/03/14	1350:17	1350:49	208	72	1968	2	5404	
10892	73	89/03/14	1634:24	1656:56	1589	1039	2.86E+05	8	5395	M5,ES
10893	73	89/03/14	1934:20	1939:53	1321	291	39223	2	5395	
10894	73	89/03/14	2142:06	2142:18	32	44	124	2	5403	
10895	74	89/03/15	0022:17	0023:24	144	52	491	2	5395	
10896	74	89/03/15	0151:11	0151:18	21	85	230	2		
10897	74	89/03/15	0455:22	0456:33	195	127	5457	4	5395	ND
10898	74	89/03/15	0529:29	0529:48	42	320	4811	4		ND
10899	74	89/03/15	0625:48	0647:02	2044	2143	4.09E+05	8	5395	
10900	74	89/03/15	0756:33	0756:48	163	45	653	2		
10901	74	89/03/15	0812:38	0812:54	45	164	1111	3		
10902	74	89/03/15	0819:35	0819:51	69	194	2163	3		
11176	74	89/03/15	0950:33	0951:11	74	41	258	2		I
11177	74	89/03/15	1136:59	1137:22	41	40	118	2		I
11178	74	89/03/15	1200:42	1201:04	60	52	487	2	5395	I
10903	74	89/03/15	1331:07	1333:02	151	181	2440	4	5395	
10904	74	89/03/15	1428:56	1429:23	62	77	970	2	5404	
10905	74	89/03/15	1720:15	1733:43	1156	68	6645	4		SN
10906	74	89/03/15	1923:26	1924:00	49	49	293	2	5403	
10907	74	89/03/15	2051:26	2053:50	209	46	839	2		
10908	75	89/03/16	0137:46	0137:51	11	52	87	2		
10909	75	89/03/16	0155:37	0159:21	250	340	28668	3	5395	ES
10920	75	89/03/16	0413:38	0413:47	52	2000	12828	10		M5
10910	75	89/03/16	0448:55	0449:17	89	41	318	2		
10911	75	89/03/16	0454:09	0454:20	33	70	201	2		
10912	75	89/03/16	0547:39	0547:44	13	44	48	2		
10913	75	89/03/16	0610:35	0611:36	414	119	5782	2		
10914	75	89/03/16	0632:51	0633:00	18	41	140	4		
10915	75	89/03/16	0720:02	0720:19	34	53	368	2	5395	
10916	75	89/03/16	1039:57	1041:04	178	73	1199	4		
10917	75	89/03/16	1103:02	1103:13	26	42	142	2		
10918	75	89/03/16	1109:27	1109:55	39	43	275	2		
10919	75	89/03/16	1115:21	1115:54	69	90	1382	4	5395	
10921	75	89/03/16	1218:00	1218:30	136	59	811	2		
10922	75	89/03/16	1223:28	1224:18	122	67	996	2	5395	
10923	75	89/03/16	1522:37	1525:09	5340	160100	1.77E+07	15	5395	M5,IN,IS
10933	75	89/03/16	1837:57	1838:28	48	196	1562	4	5395	
10939	75	89/03/16	1948:00	1955:43	1167	48	2983	4	5395	
11179	75	89/03/16	2303:58	2304:03	16	85	177	2		I
11180	75	89/03/16	2314:23	2316:30	283	254	12225	3		I ,DG,ND
11181	75	89/03/16	2325:41	2325:48	20	55	175	2		I
11182	75	89/03/16	2327:55	2328:06	23	54	322	2		I ,ND
11183	76	89/03/17	0103:54	0103:59	46	60	458	2		I
10941	76	89/03/17	0156:05	0156:44	142	146	3359	4	5395	SN
10942	76	89/03/17	0215:40	0216:07	151	153	3510	5		
10943	76	89/03/17	0233:22	0245:17	1172	3081	1.39E+05	10	5395	EN
10944	76	89/03/17	0330:52	0331:44	242	1320	25083	10		M5
10945	76	89/03/17	0335:42	0337:18	189	110	3742	5		
10934	76	89/03/17	0516:06	0516:34	48	45	326	2		
10935	76	89/03/17	0530:04	0530:43	202	245	10769	5	5395	
10936	76	89/03/17	0543:03	0543:22	57	41	359	2		
10937	76	89/03/17	0556:49	0557:26	95	474	9366	5	5395	
10938	76	89/03/17	0714:58	0716:39	1016	14600	6.12E+05	15	5395	EN
10940	76	89/03/17	0808:13	0808:57	190	134	3037	2	5395	SN,FS
10946	76	89/03/17	1114:36	1114:58	725	81	9695	2	5395	M5,SN
10947	76	89/03/17	1157:22	1158:05	56	126	909	3		
10948	76	89/03/17	1201:05	1201:21	46	52	412	2		
10949	76	89/03/17	1612:10	1612:47	68	101	1454	2	5395	
10950	76	89/03/17	1615:46	1616:21	58	48	366	2		
10951	76	89/03/17	1618:53	1619:46	102	42	317	2		
10952	76	89/03/17	1727:40	1736:06	2080	132000	9.62E+07	15	5395	M5,SN,IN,IS,EG
11184	76	89/03/17	1907:14	1907:29	31	71	309	2		I
10953	76	89/03/17	2040:26	2040:44	49	89	581	4		
10954	76	89/03/17	2109:20	2109:29	23	274	965	5		
10955	76	89/03/17	2229:03	2229:06	9	47	39	2	5395	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
10956	76	89/03/17	2230:07	2230:15	17	56	133	2	5395	
10957	76	89/03/17	2233:53	2234:00	21	73	270	2	5395	
10958	77	89/03/18	0003:03	0003:45	82	52	299	2		
10959	77	89/03/18	0144:26	0144:31	20	40	115	2		
10960	77	89/03/18	0203:56	0205:21	404	557	15709	5	5403	M5
10961	77	89/03/18	0932:06	0932:29	59	260	2687	5		
10962	77	89/03/18	1130:38	1130:57	55	67	442	3		DG
10963	77	89/03/18	1241:43	1242:44	713	2682	81817	7	5395	
10964	77	89/03/18	1358:29	1358:38	19	75	211	2		
10965	77	89/03/18	1654:25	1655:00	72	56	420	2		
10966	77	89/03/18	1819:50	1821:48	1196	44	5846	2	5395	SN
10967	77	89/03/18	2152:46	2156:39	1082	2017	1.52E+05	7		ES
11289	77	89/03/18	2259:17	2300:58	217	45	1139	2		
10968	78	89/03/19	0032:45	0032:53	81	58	426	2	5395	SN
10969	78	89/03/19	0048:27	0048:49	34	41	168	2		
10970	78	89/03/19	0339:20	0340:00	248	95	3887	2		SN
10971	78	89/03/19	0359:11	0400:02	199	123	3983	3		
10974	78	89/03/19	0700:34	0704:33	778	204	22672	3		
10975	78	89/03/19	0738:10	0739:09	200	56	1389	2	5395	
10972	78	89/03/19	0824:53	0828:45	512	67	4623	3		
10973	78	89/03/19	1047:20	1047:38	31	154	520	2		
10979	78	89/03/19	1315:56	1316:44	334	118	7700	5		
10980	78	89/03/19	1625:57	1626:00	10	55	113	2		
10981	78	89/03/19	1742:16	1753:30	936	59	5161	3		DG
10982	78	89/03/19	1914:32	1917:23	862	339	21816	4		
10983	78	89/03/19	1936:11	1939:04	530	106	15932	2		
10984	78	89/03/19	2104:25	2104:57	161	524	14428	5		M5
10985	78	89/03/19	2112:38	2115:22	467	234	27055	3		
10986	79	89/03/20	0943:15	0943:48	78	42	193	2		
10987	79	89/03/20	1134:03	1135:02	380	76	3800	2	5407	I
10988	79	89/03/20	1230:23	1230:57	135	46	507	2	5409	
10989	79	89/03/20	1541:52	1547:48	542	199	28400	3	5417	I ,ES
10990	79	89/03/20	1855:00	1856:39	142	57	1133	2		
10991	79	89/03/20	2035:19	2041:23	369	62	3142	2	5417	ES
10992	80	89/03/21	0056:02	0056:29	62	59	507	2		
10993	80	89/03/21	0134:10	0134:54	67	172	1288	3		
10994	80	89/03/21	0216:00	0232:04	1872	85	14050	2		SA
10995	80	89/03/21	0351:44	0352:22	47	47	185	2		
10996	80	89/03/21	0356:12	0356:25	41	42	129	2		
10997	80	89/03/21	0404:06	0405:09	145	83	2138	2	5409	
10998	80	89/03/21	0540:41	0541:07	50	183	2487	4	5409	
10999	80	89/03/21	0906:01	0907:42	312	87	3236	2	5409	
11000	80	89/03/21	1010:18	1010:37	37	94	1016	2		
11001	80	89/03/21	1026:32	1027:19	74	50	318	2	5411	
11002	80	89/03/21	1055:33	1055:59	70	99	1127	2	5409	
12315	80	89/03/21	1459:03	1501:27	228	181	8580	3		I
11003	80	89/03/21	1928:50	1929:20	65	109	1485	3	5407	
11004	81	89/03/22	0512:01	0513:03	205	295	14088	4	5409	
11005	81	89/03/22	0651:33	0651:41	32	44	243	2		
11006	81	89/03/22	0841:30	0842:16	53	65	731	2		
11007	81	89/03/22	1011:10	1011:53	63	56	408	2	5409	
11008	81	89/03/22	1111:58	1114:18	223	162	4911	3	5409	M5
12320	81	89/03/22	1709:15	1710:17	92	48	506	2	5409	I
11009	81	89/03/22	1719:39	1719:51	49	48	345	2		
11010	81	89/03/22	1722:50	1722:52	45	44	247	2		
11011	81	89/03/22	1911:58	1912:02	11	54	114	2	5409	
11012	81	89/03/22	2226:01	2226:10	16	57	148	2		
11013	82	89/03/23	0542:20	0542:30	29	50	325	2	5409	
11014	82	89/03/23	0708:16	0708:34	36	41	159	2		
11015	82	89/03/23	1930:09	1940:31	2376	3318	1.40E+06	13	5409	M5,SN,ES
11016	82	89/03/23	2103:36	2109:49	2703	1690	87764	7	5411	M5,SN,EN
11017	83	89/03/24	0227:54	0227:58	23	70	230	2	5409	
11018	83	89/03/24	0332:19	0332:42	64	78	507	2	5409	
11019	83	89/03/24	0526:43	0526:51	22	54	117	2		
11020	83	89/03/24	2024:12	2028:17	901	1289	89879	10	5409	M5,SN
11021	83	89/03/24	2046:19	2047:42	181	37	774	2		
11022	83	89/03/24	2049:47	2051:57	301	69	2493	2		
11023	84	89/03/25	0242:34	0242:47	27	69	412	4		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11024	84	89/03/25	0749:06	0749:19	42	43	165	2	5409	
11025	84	89/03/25	1155:22	1156:37	138	45	1100	3		SN
11026	85	89/03/26	0050:19	0050:50	60	58	631	2	5409	
11027	85	89/03/26	0238:03	0238:29	63	55	520	2		
11028	85	89/03/26	0341:30	0341:46	44	114	695	3		
11029	85	89/03/26	0855:33	0856:17	99	143	3391	3	5409	
11030	86	89/03/27	0311:50	0316:01	423	311	28676	4	5417	
11031	86	89/03/27	1117:09	1117:16	16	48	99	2		
11032	86	89/03/27	1119:40	1119:58	56	91	1581	3	5409	
11690	86	89/03/27	1208:34	1209:19	150	56	974	2	5409	I
11033	86	89/03/27	2317:10	2317:41	65	56	480	2		
11034	87	89/03/28	0230:23	0233:48	223	64	1431	2		
11035	87	89/03/28	0716:14	0716:23	20	58	194	2		
11036	87	89/03/28	1027:20	1031:26	1009	599	1.08E+05	5		M5
11691	87	89/03/28	1516:33	1516:35	244	82	4600	4		I ,SA
11037	87	89/03/28	1653:19	1653:32	106	55	1062	3		SA
11038	87	89/03/28	1924:53	1927:47	909	146	15198	3	5411	M5,ES
11040	87	89/03/28	2116:52	2117:31	115	45	445	2		ES
11039	87	89/03/28	2252:48	2253:03	27	68	358	2		
11041	88	89/03/29	1744:53	1746:25	324	117	5310	2	5428	SA,ES
11042	89	89/03/30	0349:50	0350:40	58	44	432	2	5428	
11043	89	89/03/30	0356:31	0357:22	116	41	555	2		
11044	89	89/03/30	0419:07	0419:41	77	87	1509	3		
11045	89	89/03/30	1303:31	1303:36	14	40	98	2	5428	
11046	90	89/03/31	0458:08	0458:27	36	98	925	3	5428	
11047	91	89/04/01	2131:51	2132:18	47	82	716	2		
11049	92	89/04/02	1536:04	1541:30	651	136	24243	2		M5,SN
11050	92	89/04/02	2323:40	2328:06	737	312	40183	3	5428	
11051	93	89/04/03	0915:28	0916:13	122	53	797	3		
11053	93	89/04/03	1933:54	1938:57	457	42	1068	2	5428	SN
11054	93	89/04/03	2203:40	2204:27	65	48	265	2	5428	
11052	93	89/04/03	2242:38	2242:52	24	63	347	2		
11726	95	89/04/05	0414:11	0415:44	340	55	1860	3		I
11055	95	89/04/05	1156:06	1156:50	156	1323	38808	7	5428	M5,SN,ES
11056	95	89/04/05	2037:24	2037:38	30	40	198	2		
11057	95	89/04/05	2038:15	2038:31	40	90	848	2	5428	
11058	95	89/04/05	2257:41	2258:13	126	64	1499	3		
11059	95	89/04/05	2305:47	2306:37	156	116	3816	2	5428	
11060	96	89/04/06	0534:39	0534:52	41	42	238	2	5428	
11061	96	89/04/06	1022:20	1022:34	28	50	260	2	5441	ND
11062	96	89/04/06	2040:10	2040:44	83	61	875	2	5441	
11063	97	89/04/07	0950:11	0950:19	27	62	360	3		
11066	97	89/04/07	1336:38	1337:01	588	40	2700	2	5434	M5,SN,ES
11065	97	89/04/07	1522:16	1522:37	165	361	15323	5	5441	M5,ES
11064	97	89/04/07	1949:13	1949:41	90	255	6938	6	5446	SN
11067	98	89/04/08	2113:07	2114:33	160	44	660	2		
11068	99	89/04/09	0118:40	0119:51	1585	51	10084	2	5441	SN
11069	99	89/04/09	0202:02	0204:44	1310	52	7911	2	5438	AX
11070	100	89/04/10	0211:52	0212:27	63	50	297	2		
11071	100	89/04/10	0715:51	0716:05	31	48	161	2		
11072	100	89/04/10	1816:38	1817:47	204	41	528	2		
11073	100	89/04/10	2117:26	2117:32	86	36	226	2		
11078	102	89/04/12	0603:22	0604:59	117	50	756	2	5438	
11081	102	89/04/12	2131:35	2132:21	82	47	430	3		
11082	102	89/04/12	2232:37	2232:58	68	47	480	3		
11080	103	89/04/13	0642:16	0642:28	50	206	866	4		
11084	103	89/04/13	1728:38	1728:49	20	62	257	2		
11085	103	89/04/13	1740:48	1741:44	167	49	917	2	5451	
11086	103	89/04/13	2050:04	2052:07	295	50	2434	2	5451	AX
11087	105	89/04/15	0031:36	0031:52	32	62	298	2	5449	
11746	105	89/04/15	1304:03	1304:26	47	39	170	2	5451	I
11747	105	89/04/15	2147:41	2148:09	100	84	1870	3		I
11750	105	89/04/15	2230:50	2231:39	100	48	526	2		I
11751	106	89/04/16	0425:28	0425:50	30	91	847	3		I
11088	107	89/04/17	0329:38	0330:40	116	57	959	2	5451	
11091	107	89/04/17	1741:49	1743:24	152	51	821	2	5452	ND
11097	108	89/04/18	1038:50	1039:01	34	58	236	2		
12773	108	89/04/18	1105:01	1105:03	13	32	49	8		NS,GB

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11098	109	89/04/19	0019:00	0019:46	113	44	625	2		EG
11099	109	89/04/19	0027:16	0028:31	194	205	9791	3	5456	
11101	109	89/04/19	0034:39	0034:50	34	42	139	2		
11100	109	89/04/19	0536:37	0537:11	38	52	220	2	5449	
11123	110	89/04/20	1219:13	1219:48	74	45	539	2		
11860	110	89/04/20	1411:17	1411:57	83	55	746	2	5451	I
11861	110	89/04/20	1512:19	1513:33	82	44	305	2	5449	I
11124	110	89/04/20	1955:40	1955:54	85	38	407	2		
11866	111	89/04/21	1009:27	1009:50	60	39	243	2		I
11125	111	89/04/21	1421:02	1421:59	302	228	6852	4	5449	
11126	111	89/04/21	2348:59	2349:28	78	45	417	2		
11127	111	89/04/21	2352:30	2352:57	101	51	634	2	5451	
11128	111	89/04/21	2356:43	2357:04	58	86	416	3		
11129	112	89/04/22	0107:36	0108:04	55	200	2896	4		
11130	112	89/04/22	0133:03	0133:18	102	63	1125	3		
11131	112	89/04/22	0147:12	0147:20	33	42	156	2		
11132	112	89/04/22	0246:32	0246:35	33	47	168	2		
11133	112	89/04/22	0248:09	0248:41	149	852	12052	7		M5
11134	112	89/04/22	0330:44	0332:07	258	245	6904	5	5451	EN
11135	112	89/04/22	0552:20	0552:53	48	67	893	2	5451	
11136	112	89/04/22	0920:55	0921:41	61	50	583	2		
11137	112	89/04/22	1230:38	1230:49	23	97	658	3	5456	
11138	112	89/04/22	1423:42	1423:59	46	60	448	2		
11139	112	89/04/22	2021:51	2022:07	55	54	491	3	5451	
11140	112	89/04/22	2159:08	2159:29	43	48	205	3		
11141	113	89/04/23	0524:09	0524:34	73	78	1195	5		
11142	113	89/04/23	0528:31	0528:34	31	40	168	2		
11143	113	89/04/23	1247:20	1248:14	84	44	333	2		
11144	114	89/04/24	0000:51	0001:10	284	57	2882	2		
11145	114	89/04/24	0336:10	0337:37	152	75	2288	3	5456	
11154	114	89/04/24	0620:08	0621:02	248	85	3393	2	5451	
11146	114	89/04/24	0810:39	0810:49	33	56	205	2		
11147	114	89/04/24	0917:40	0918:03	86	42	473	2		
11155	114	89/04/24	1410:12	1410:58	65	40	286	2		
11156	114	89/04/24	1725:32	1726:01	70	49	371	2		ND
11157	114	89/04/24	2158:53	2159:08	30	40	217	2		
11165	115	89/04/25	2107:44	2107:54	48	68	542	2	5454	
11166	115	89/04/25	2229:06	2231:53	833	53	3992	3		
11167	116	89/04/26	0259:16	0259:25	24	70	313	2	5464	
11171	116	89/04/26	1428:20	1428:30	14	36	89	2		
11173	116	89/04/26	2156:40	2156:43	14	42	54	2	5454	
11172	116	89/04/26	2303:03	2303:30	84	56	560	2	5454	
11174	117	89/04/27	0103:49	0104:02	21	41	93	2	5464	
11175	117	89/04/27	0650:48	0651:04	33	54	331	2		
11185	120	89/04/30	0609:45	0609:55	23	168	665	3		
11186	121	89/05/01	0054:46	0059:20	2052	837	2.78E+05	6	5470	M5,EN
11187	121	89/05/01	0215:50	0215:54	29	46	143	2		
11188	121	89/05/01	1043:00	1043:31	63	529	3517	5	5464	M5,FS
11189	121	89/05/01	1317:14	1317:39	42	46	282	2	5470	
11190	121	89/05/01	1520:56	1521:24	154	97	3806	5	5470	
11191	121	89/05/01	2045:35	2045:54	47	102	947	2	5470	
11192	121	89/05/01	2108:41	2109:35	136	82	1604	2	5470	
11193	122	89/05/02	0615:38	0616:23	81	46	412	2		
11194	122	89/05/02	0751:26	0752:03	63	39	213	2		
11195	122	89/05/02	0753:29	0754:15	55	40	225	2		
11196	122	89/05/02	1400:37	1402:36	295	141	8475	3	5470	
11197	122	89/05/02	1438:24	1438:44	61	91	938	3	5464	
11198	122	89/05/02	1848:31	1856:28	586	60	7274	2	5464	ES
11199	122	89/05/02	2002:39	2002:50	21	107	426	3		
11200	123	89/05/03	0339:58	0355:55	2703	12970	3.30E+06	15	5470	M5,SN
11201	123	89/05/03	1034:24	1034:32	15	34	80	2		
11202	123	89/05/03	1127:28	1127:50	107	55	634	2	5470	
11203	123	89/05/03	1133:14	1133:23	18	43	92	2		
11204	123	89/05/03	1909:49	1909:56	13	42	87	2	5464	
11205	123	89/05/03	1927:44	1935:35	1090	82	13938	5	5464	
11206	123	89/05/03	2052:06	2056:27	511	90	6025	2	5464	
11207	124	89/05/04	0123:41	0124:18	60	41	277	2		
11208	124	89/05/04	0332:19	0334:34	428	1320	74394	5	5464	M5

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11209	124	89/05/04	0737:58	0738:28	140	132	3013	4	5464	
11210	124	89/05/04	0740:34	0741:23	75	94	669	3		
11211	124	89/05/04	0818:04	0819:12	572	2609	1.63E+05	9	5464	M5
11212	124	89/05/04	0906:36	0906:47	34	42	150	2	5470	
11213	124	89/05/04	0924:04	0924:07	26	47	101	2		
11214	124	89/05/04	0925:29	0925:39	28	74	429	2		
11215	124	89/05/04	0955:28	0956:29	216	1690	39488	8		
11216	124	89/05/04	1100:14	1100:46	85	70	1627	3		
11217	124	89/05/04	1105:32	1113:50	1823	4157	3.70E+05	11	5464	M5,EN
11218	124	89/05/04	1219:49	1220:08	60	51	348	2		
11219	124	89/05/04	1252:16	1255:53	383	46	1592	3		
11220	124	89/05/04	1524:04	1524:21	67	125	2387	4	5470	
11221	124	89/05/04	1720:27	1720:43	32	43	169	2	5464	
11222	124	89/05/04	1838:31	1840:19	283	983	18528	6	5464	M5
11223	124	89/05/04	2027:43	2030:42	467	77	5771	2	5464	EN
11224	125	89/05/05	0119:49	0120:06	40	43	146	2		
11225	125	89/05/05	0248:02	0248:22	131	131	1268	3	5464	
11232	125	89/05/05	0343:01	0343:07	9	44	38	2		
11226	125	89/05/05	0408:22	0410:06	302	90	3364	2	5470	
11227	125	89/05/05	0525:04	0526:44	467	847	23059	4	5464	M5
11228	125	89/05/05	0655:15	0655:27	45	49	331	2		
11229	125	89/05/05	0701:42	0701:47	22	41	93	2		
11230	125	89/05/05	0721:16	0730:37	3781	14950	4.48E+06	15	5470	M5,IN
11231	125	89/05/05	1042:53	1043:17	57	65	856	3		
11233	125	89/05/05	1206:58	1209:17	179	196	2747	4	5464	
11234	125	89/05/05	1307:57	1308:19	65	47	369	2	5464	
11235	125	89/05/05	1801:22	1801:42	52	313	4092	7	5464	
11236	126	89/05/06	0507:09	0508:24	310	546	10975	6	5470	FS
11237	126	89/05/06	1440:52	1441:05	94	53	408	2	5464	M5,EN
11238	126	89/05/06	1654:12	1701:11	844	6260	2.38E+05	13	5476	M5
11239	126	89/05/06	2024:56	2025:12	39	77	614	2		
11240	127	89/05/07	0116:14	0116:36	91	930	9957	5	5476	M5
11241	127	89/05/07	0523:21	0524:14	84	87	1937	3		
11242	127	89/05/07	0653:40	0654:41	111	160	2259	5	5476	
11243	127	89/05/07	0723:12	0723:23	17	78	310	3		
11244	127	89/05/07	0823:49	0824:47	145	245	4823	4		
11245	127	89/05/07	0846:21	0846:25	11	160	360	4		
11246	127	89/05/07	0855:25	0855:29	25	41	153	2	5464	
11247	127	89/05/07	0907:47	0908:02	27	48	188	2		
11248	127	89/05/07	1623:21	1623:36	31	68	490	2		
11249	127	89/05/07	1756:01	1756:30	119	43	438	2	5464	
11250	127	89/05/07	1911:37	1912:41	133	54	986	2	5464	
11252	127	89/05/07	1929:00	1929:14	40	49	222	2		
11251	127	89/05/07	1934:58	1938:39	360	82	3095	2	5464	
11253	127	89/05/07	2050:28	2050:38	71	53	346	2		
11254	127	89/05/07	2112:40	2117:51	381	174	11121	3	5464	
11255	128	89/05/08	0138:18	0138:39	322	134	5996	2	5470	
11256	128	89/05/08	0153:06	0153:26	30	72	369	2		
11257	128	89/05/08	0340:20	0340:40	36	57	374	2		
11258	128	89/05/08	0438:47	0439:29	67	38	211	2		
11259	128	89/05/08	0522:06	0522:21	112	56	720	2	5474	
11260	128	89/05/08	1407:37	1407:40	31	49	169	2	5478	
11261	128	89/05/08	1521:43	1524:27	737	42	1964	2		
11262	128	89/05/08	2143:05	2143:19	23	44	94	2	5476	
11263	129	89/05/09	0438:42	0439:17	46	37	145	2		
11264	129	89/05/09	1011:25	1011:34	27	55	174	3		
11265	129	89/05/09	1014:16	1014:58	58	38	174	2		
11266	130	89/05/10	0026:05	0028:03	255	55	1373	2		
11267	130	89/05/10	0204:18	0204:34	49	48	398	2	5476	
11268	130	89/05/10	0348:00	0349:27	272	55	2173	2	5478	
11269	130	89/05/10	1221:02	1221:27	46	51	363	2		
11270	131	89/05/11	0605:36	0606:33	222	127	3941	5		
11271	131	89/05/11	0610:37	0611:37	138	50	175	3		
11272	131	89/05/11	1741:25	1741:51	66	60	601	2		
11273	132	89/05/12	0746:20	0746:30	31	40	97	2		
11275	132	89/05/12	1216:16	1217:02	55	42	302	2	5487	
11274	132	89/05/12	1521:14	1521:35	53	43	239	2		
11276	134	89/05/14	0653:16	0653:36	93	317	4036	3	5484	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11277	134	89/05/14	1830:56	1831:02	11	76	149	2		
11278	134	89/05/14	1834:02	1834:09	22	49	169	2	5481	
11283	134	89/05/14	2228:04	2229:39	115	36	151	3	5476	
11279	135	89/05/15	0534:19	0534:56	139	74	2483	2	5481	
11284	135	89/05/15	0706:23	0707:03	378	51	1350	4	5488	
11287	137	89/05/17	0906:51	0907:08	32	41	113	2	5491	
11292	140	89/05/20	0433:20	0433:33	66	61	1039	2	5495	
11293	140	89/05/20	0938:02	0938:25	1864	134	83759	13		EN,SA,DG
11294	140	89/05/20	1307:33	1308:37	159	61	1181	2	5488	
11300	141	89/05/21	0015:52	0022:58	2080	230	1.96E+05	5		EN,ND
11295	141	89/05/21	1204:13	1204:21	30	65	297	2	5495	
11296	141	89/05/21	1513:29	1513:58	184	321	7260	5	5495	SA
11297	141	89/05/21	1740:12	1740:41	156	76	3156	2	5495	
11298	141	89/05/21	1757:15	1800:36	393	1537	53848	5	5495	M5,ES
11304	141	89/05/21	2233:47	2234:20	68	47	253	2	5497	
11305	141	89/05/21	2246:36	2247:16	169	151	4340	4	5495	I
11299	141	89/05/21	2312:19	2313:16	68	54	438	2	5495	
11306	142	89/05/22	0438:58	0439:17	53	49	207	3	5495	
11308	142	89/05/22	0627:34	0628:02	121	401	5854	4	5488	I
11307	142	89/05/22	1120:16	1120:36	26	53	162	2	5497	
11309	142	89/05/22	1521:13	1523:17	815	218	39306	3	5495	ES
11310	142	89/05/22	1654:39	1654:54	35	34	157	2	5497	
11311	142	89/05/22	2326:16	2326:21	65	96	739	3		
11312	143	89/05/23	0345:03	0345:25	274	54	2137	3	5497	SN
11313	143	89/05/23	0439:40	0441:20	121	72	1875	2		
11314	143	89/05/23	0707:18	0707:36	90	77	2643	2	5498	SA
11315	143	89/05/23	0731:10	0731:34	194	49	1064	2	5497	
11316	143	89/05/23	2001:04	2001:30	193	70	2340	2	5497	
11317	143	89/05/23	2222:49	2224:01	207	63	1712	4	5490	
11318	143	89/05/23	2234:27	2234:45	29	39	104	2	5497	
11319	144	89/05/24	0503:28	0503:34	17	41	53	2		
11320	144	89/05/24	0753:51	0755:01	159	90	1078	3	5495	
11321	144	89/05/24	1347:45	1349:00	150	82	1629	2	5497	
11322	144	89/05/24	2133:24	2138:24	1212	636	83842	7		M5,DG
11323	144	89/05/24	2217:35	2217:58	43	129	827	2	5498	
11324	144	89/05/24	2223:09	2223:18	12	50	83	2		
12219	144	89/05/24	2322:43	2323:11	37	84	449	2	5495	I
12220	145	89/05/25	0127:40	0128:07	60	129	1390	3		I
11325	145	89/05/25	1037:42	1040:43	259	320	6320	3	5497	
11326	145	89/05/25	1519:51	1521:41	265	249	14855	4	5497	
11327	145	89/05/25	2217:53	2218:20	60	53	443	2		
11328	145	89/05/25	2255:26	2255:47	37	62	320	2	5505	
11329	146	89/05/26	0825:13	0825:29	54	48	321	2		
11330	146	89/05/26	1606:46	1606:48	25	42	93	2		
11331	146	89/05/26	2127:07	2128:06	291	65	4164	4		
11332	148	89/05/28	1234:40	1234:48	176	582	26354	4	5497	
11333	148	89/05/28	1555:40	1556:05	59	102	715	2	5506	
11334	148	89/05/28	2205:43	2207:10	500	167	17646	3	5506	
11335	148	89/05/28	2257:49	2302:01	380	60	3140	2	5497	SN
11336	149	89/05/29	0247:36	0251:52	396	249	10893	3	5506	
11337	149	89/05/29	0341:59	0350:16	636	153	8398	4	5497	M5,SA
11338	149	89/05/29	0416:19	0428:11	1004	168	25311	2	5497	EN,DG
11339	149	89/05/29	0712:05	0712:57	65	142	1911	4		
11340	149	89/05/29	0717:09	0717:25	67	44	277	2		
11341	149	89/05/29	0736:04	0736:28	64	68	653	3		
11342	149	89/05/29	2216:14	2216:29	66	46	258	2		
11343	150	89/05/30	0115:11	0115:32	41	42	122	2	5497	SN
11344	150	89/05/30	0332:30	0334:16	167	60	235	2	5507	
11348	150	89/05/30	2201:18	2202:23	76	50	289	2	5516	
11345	151	89/05/31	0027:00	0027:26	130	59	1063	2		SN
11346	151	89/05/31	0234:27	0234:42	30	43	169	2		
11347	151	89/05/31	0354:33	0354:54	38	37	114	2	5511	
11349	151	89/05/31	1322:22	1323:10	68	66	914	2		
11350	152	89/06/01	0116:28	0117:05	200	45	683	2	5517	
11351	152	89/06/01	0332:34	0332:58	70	60	784	2		
11352	152	89/06/01	2130:27	2131:07	55	77	543	2	5517	
11354	152	89/06/01	2330:00	2331:26	487	55	2819	4	5517	
11353	153	89/06/02	0047:25	0047:43	65	45	333	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11355	153	89/06/02	0509:44	0523:27	2802	72	30191	2		SA,DG
11356	153	89/06/02	0856:55	0857:27	63	63	724	2	5517	
11357	153	89/06/02	1013:29	1014:16	271	6205	1.09E+05	15		M5
11358	153	89/06/02	1557:19	1602:30	1917	3819	5.00E+05	15	5517	M5
11362	153	89/06/02	1753:57	1756:20	369	87	8170	5	5517	I ,SG
11363	153	89/06/02	1812:03	1813:54	363	123	5894	3	5517	
11359	153	89/06/02	1920:00	1920:18	22	45	90	2		
11360	153	89/06/02	2210:01	2210:31	105	51	418	2		
11361	154	89/06/03	0129:43	0130:38	67	66	478	4		
11364	154	89/06/03	0307:46	0313:01	633	2274	1.67E+05	10	5517	M5
11365	154	89/06/03	0328:39	0328:55	118	64	1422	2		
11366	154	89/06/03	1216:20	1217:38	238	1268	20701	9	5520	M5
11367	154	89/06/03	1543:37	1544:23	79	50	560	2		
11368	154	89/06/03	1654:45	1657:59	461	94	7289	2	5507	
11369	154	89/06/03	1706:24	1706:46	34	50	322	2		
11370	154	89/06/03	1825:50	1829:36	1209	8365	1.09E+06	14	5521	M5
11371	154	89/06/03	1851:30	1851:45	31	52	185	2		
11372	154	89/06/03	2306:04	2308:22	525	165	15867	8	5516	DG,ND
11373	154	89/06/03	2321:16	2321:49	53	54	428	2		
11374	154	89/06/03	2332:47	2333:43	107	47	591	2		
11375	155	89/06/04	0032:58	0033:04	32	69	328	2	5521	
11376	155	89/06/04	0212:02	0215:48	424	195	13165	5	5517	
12544	155	89/06/04	0827:47	0831:04	840	274	18500	3	5521	I
12545	155	89/06/04	0844:40	0855:41	840	319	54200	2	5521	I ,EN,ND
11377	155	89/06/04	1318:51	1319:40	95	243	2821	4	5521	
11378	155	89/06/04	1617:50	1621:16	271	161	4980	3	5521	
11379	155	89/06/04	1632:20	1638:17	610	322	59518	3	5521	EN
11380	155	89/06/04	2113:05	2117:29	332	2937	2.38E+05	8	5521	M5,EN
11392	156	89/06/05	0104:32	0105:47	133	64	1308	2		
11381	156	89/06/05	0129:54	0131:02	314	1109	23829	4	5521	M5,DG
11382	156	89/06/05	0305:55	0308:13	239	122	5009	3		
11383	156	89/06/05	0330:03	0330:09	17	46	131	2		
11385	156	89/06/05	0915:57	0917:41	301	92	4975	2	5521	
11386	156	89/06/05	1111:31	1113:45	254	2807	1.66E+05	5	5521	M5,EN
11388	156	89/06/05	1544:40	1545:18	84	48	405	2	5521	
11387	156	89/06/05	1818:48	1821:32	234	64	4563	2	5517	DG,ND
11389	156	89/06/05	2007:35	2009:04	259	91	5416	2		
11390	156	89/06/05	2127:44	2127:52	44	48	275	2		
11391	156	89/06/05	2132:56	2135:36	1093	6637	6.22E+05	15	5521	M5
11394	157	89/06/06	1445:04	1445:20	74	50	405	2		
11395	157	89/06/06	1632:06	1632:36	280	1039	22320	4	5521	M5
11403	157	89/06/06	1715:27	1716:04	64	39	496	2	5517	
11396	157	89/06/06	1926:07	1926:57	58	66	366	3		
11397	158	89/06/07	0001:56	0002:02	34	116	390	2		
11398	158	89/06/07	0009:11	0009:20	41	68	584	3		
11399	158	89/06/07	0133:53	0135:03	1241	1163	70673	4	5521	M5
11400	158	89/06/07	0326:37	0326:46	26	40	117	2	5521	
11401	158	89/06/07	0446:01	0446:55	66	58	580	2	5521	
11402	158	89/06/07	0550:22	0550:43	42	53	262	2		
11404	158	89/06/07	0730:49	0731:07	42	50	210	2	5521	
11405	158	89/06/07	0732:26	0732:46	42	49	214	2	5521	
11410	158	89/06/07	0738:28	0738:50	25	53	147	2	5521	
11406	158	89/06/07	0802:15	0802:22	32	45	123	2		
11407	158	89/06/07	1047:24	1048:38	329	140	10274	3	5521	
11408	158	89/06/07	1327:39	1327:57	63	51	570	2		
11409	158	89/06/07	1455:02	1455:53	95	47	323	2		
11411	158	89/06/07	1711:30	1711:53	36	49	237	2		
11412	158	89/06/07	1944:34	1945:14	47	45	223	2	5521	
11413	158	89/06/07	2008:00	2008:24	108	360	3698	3	5530	
11414	158	89/06/07	2248:51	2249:20	50	54	475	2	5521	
11415	159	89/06/08	0032:48	0033:02	77	85	1820	2	5528	
11417	159	89/06/08	0655:40	0655:50	128	66	796	2		
11418	159	89/06/08	0658:55	0700:40	240	66	2374	2	5521	
11419	159	89/06/08	0711:08	0711:17	18	47	124	2		
11420	159	89/06/08	0807:05	0807:55	242	109	2955	2		
11421	159	89/06/08	0814:07	0814:31	95	331	6434	6		
11422	159	89/06/08	1306:28	1306:53	75	284	3675	4		
11423	159	89/06/08	1325:28	1325:41	30	62	386	3	5530	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11429	159	89/06/08	1431:17	1431:28	38	44	146	2		
11430	159	89/06/08	1724:53	1737:01	1948	101	33853	2	5528	
11431	159	89/06/08	1902:08	1902:21	29	52	136	2		
11432	159	89/06/08	2231:57	2232:24	72	47	442	2		
11433	160	89/06/09	0006:45	0007:09	90	57	473	2		
11434	160	89/06/09	0055:55	0056:29	135	512	5442	2	5521	
12546	160	89/06/09	0545:57	0546:33	116	57	994	2	5528	I
12547	160	89/06/09	0749:22	0750:34	661	69	6600	2	5521	I ,EN
11436	160	89/06/09	1026:19	1026:44	38	53	250	2	5521	
11437	160	89/06/09	1527:49	1528:13	76	56	697	2		
11438	160	89/06/09	1629:51	1630:26	424	292	10564	5	5533	
11439	160	89/06/09	2138:29	2139:11	103	67	1476	2		
11440	160	89/06/09	2242:18	2252:07	1549	455	67090	6	5521	
11444	161	89/06/10	0619:14	0621:29	667	365	47016	5	5533	SA
11441	161	89/06/10	0824:25	0824:45	160	208	9292	5	5528	
11442	161	89/06/10	0940:01	0940:43	100	162	3213	3	5533	
11443	161	89/06/10	0943:08	0943:12	9	78	114	2		
11448	161	89/06/10	1234:46	1235:02	24	54	228	2		
11445	161	89/06/10	1242:04	1242:09	16	60	135	2	5528	
11446	161	89/06/10	1247:38	1248:50	156	68	1908	2		
11447	161	89/06/10	1252:57	1253:37	109	144	3221	3	5528	
11449	161	89/06/10	1407:01	1407:30	72	67	826	2		
11450	161	89/06/10	1411:39	1411:42	18	129	384	4	5533	
11451	161	89/06/10	1903:36	1904:08	67	256	3372	8		
11452	161	89/06/10	1904:58	1905:23	80	90	2380	2		M5,ND
11453	161	89/06/10	1906:37	1907:17	127	169	3658	3	5533	M5
11454	161	89/06/10	1912:28	1912:41	21	50	97	2		
11456	161	89/06/10	2334:34	2334:48	33	47	206	2	5521	
11457	161	89/06/10	2351:23	2351:35	24	56	201	2	5533	
11458	162	89/06/11	0136:54	0137:06	29	51	233	2		
11459	162	89/06/11	0716:03	0716:12	23	49	208	3		
11460	162	89/06/11	0910:06	0912:29	297	186	9971	2	5533	
11461	162	89/06/11	1020:22	1021:05	72	54	431	2		
11462	162	89/06/11	1024:29	1024:29	2	53	42	2		
11463	162	89/06/11	1038:16	1038:20	13	44	116	2		
11464	162	89/06/11	1039:25	1039:27	4	56	49	2		
11465	162	89/06/11	1205:49	1206:45	110	88	1028	3	5533	
11466	162	89/06/11	1340:53	1342:36	197	305	14532	4	5533	
11467	162	89/06/11	1448:53	1449:06	33	143	891	3	5533	
11468	162	89/06/11	1449:41	1449:47	16	191	676	5	5533	
11469	162	89/06/11	1458:46	1459:56	121	56	916	15		M5,ND,NS
11470	162	89/06/11	1511:03	1511:13	16	72	206	2		
11475	162	89/06/11	1532:22	1536:12	371	58	3200	5	5533	
11471	162	89/06/11	1636:28	1637:41	101	54	747	2		AX
11472	162	89/06/11	2253:03	2253:14	35	59	254	2	5533	
11473	163	89/06/12	0018:24	0018:57	42	49	182	2	5528	
11474	163	89/06/12	0150:03	0151:29	160	69	1620	2		
12548	163	89/06/12	0215:53	0217:45	209	303	12600	3	5528	I
12549	163	89/06/12	0320:40	0320:52	26	55	265	2		I
12550	163	89/06/12	0340:32	0340:55	41	49	136	2		I
11477	163	89/06/12	0619:02	0619:18	61	373	2521	4		
11478	163	89/06/12	0635:44	0635:49	25	59	331	2		
11476	163	89/06/12	0822:23	0822:50	33	47	196	2		
11479	163	89/06/12	1105:29	1105:34	15	51	133	2	5533	
11484	163	89/06/12	1137:15	1137:46	53	44	201	2		
11480	163	89/06/12	1224:49	1224:54	87	87	1390	2		
11481	163	89/06/12	1227:22	1229:07	237	151	5326	3		
11482	163	89/06/12	1243:18	1243:44	58	72	1000	2		
11483	163	89/06/12	1258:49	1259:34	141	54	751	2	5533	
11485	163	89/06/12	1554:51	1555:35	63	94	874	2	5528	
11486	163	89/06/12	1658:21	1658:39	74	56	617	2	5533	SN
11487	163	89/06/12	1903:48	1904:19	38	51	244	2	5533	
11488	164	89/06/13	0615:21	0615:27	21	44	101	2		
11489	164	89/06/13	0846:10	0846:18	18	45	98	2		
11490	164	89/06/13	1321:51	1321:58	23	55	151	2		
11491	164	89/06/13	1324:55	1325:05	30	84	515	2	5533	
11455	164	89/06/13	1351:43	1352:01	60	61	575	2		
11492	164	89/06/13	1447:27	1448:24	72	62	972	4	5533	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11493	164	89/06/13	1941:28	1942:12	204	176	7989	3	5528	
11494	164	89/06/13	2052:21	2052:27	12	48	89	2		
11495	164	89/06/13	2110:26	2110:41	28	63	196	2		
11496	165	89/06/14	0300:51	0305:39	526	201	10773	3	5536	
11497	165	89/06/14	0315:45	0317:12	236	238	4338	3	5528	
11498	165	89/06/14	0335:36	0335:48	33	57	223	2		
11503	165	89/06/14	0501:15	0501:35	30	44	105	2		
11499	165	89/06/14	0606:41	0607:09	180	1059	27850	7		M5
11500	165	89/06/14	0615:13	0615:55	106	65	1022	2		
11501	165	89/06/14	0819:26	0819:28	68	49	387	2		
11502	165	89/06/14	0932:37	0932:54	26	45	128	2		
11504	165	89/06/14	1042:42	1042:59	97	105	1585	2		
11505	165	89/06/14	1217:27	1218:18	130	171	3462	3	5528	
11506	165	89/06/14	1220:11	1220:56	61	54	417	2	5528	
11507	165	89/06/14	1244:05	1244:34	53	47	245	2		
11508	165	89/06/14	1250:01	1250:44	183	314	6517	4		
11509	165	89/06/14	1256:18	1256:32	93	73	1543	2		
11510	165	89/06/14	1346:10	1346:33	78	88	985	3		
11511	165	89/06/14	1349:23	1349:27	16	58	170	3		
11512	165	89/06/14	1352:19	1352:43	333	32070	1.49E+05	15	5521	M5,FS
12551	165	89/06/14	1546:47	1547:15	60	61	514	2		I
12552	165	89/06/14	1549:11	1549:56	251	202	8850	3	5528	I
11519	165	89/06/14	1654:37	1654:44	14	68	119	2		
11516	165	89/06/14	1655:02	1655:28	76	91	1406	2	5528	
11517	165	89/06/14	1658:33	1700:05	152	72	1245	2		
12553	165	89/06/14	1721:05	1721:12	27	56	210	3		I
11513	165	89/06/14	2019:02	2019:17	52	269	2076	5	5524	M5
11521	165	89/06/14	2132:39	2133:13	54	256	3032	4	5521	
11522	165	89/06/14	2140:05	2140:14	17	46	90	2		
11523	165	89/06/14	2306:41	2306:53	20	55	166	2		
11524	165	89/06/14	2311:06	2312:14	310	124	7511	2	5533	
11525	165	89/06/14	2334:50	2335:27	72	114	1260	3	5526	
12554	166	89/06/15	0234:37	0234:57	99	56	582	2	5526	I
12555	166	89/06/15	0736:53	0737:10	111	86	1810	2		I
12556	166	89/06/15	0739:42	0739:51	26	61	179	2		I
12557	166	89/06/15	0913:18	0913:40	43	53	245	2		I
11526	166	89/06/15	1000:58	1003:45	1272	2522	2.91E+05	8	5521	I
12558	166	89/06/15	1126:07	1127:34	193	94	4568	2	5536	I
12559	166	89/06/15	1137:32	1137:57	160	73	2020	2		I
12560	166	89/06/15	1204:55	1205:06	34	161	1580	3		I
12561	166	89/06/15	1328:29	1328:44	80	52	594	2		I
12562	166	89/06/15	1341:52	1342:47	156	53	717	2	5524	I
12563	166	89/06/15	1436:36	1436:52	46	73	669	2	5528	I
12564	166	89/06/15	1457:45	1458:07	66	71	829	2		I
11527	166	89/06/15	1744:23	1745:06	257	48	974	2	5533	
11534	166	89/06/15	1756:07	1756:33	45	41	194	2	5533	
11535	166	89/06/15	1910:39	1914:17	1179	27056	6.00E+06	15	5533	M5,I ,DG
12565	166	89/06/15	2054:18	2054:28	24	51	212	2		I
12566	166	89/06/15	2217:45	2218:53	217	159	8530	2	5528	I
11528	167	89/06/16	0137:59	0138:10	30	45	137	2		
11529	167	89/06/16	0427:16	0427:36	75	225	2941	5		
11532	167	89/06/16	0434:10	0434:58	53	47	199	2		
11530	167	89/06/16	0448:38	0449:42	355	279	27279	4	5533	M5
11531	167	89/06/16	0512:36	0518:07	356	135	12952	2	5533	EN
11533	167	89/06/16	0737:43	0740:39	418	18920	2.82E+06	12	5533	M5,SN,EG
11536	167	89/06/16	0914:15	0915:08	178	123	3327	2		EG
11537	167	89/06/16	1033:46	1034:01	50	54	237	2	5528	
11538	167	89/06/16	1408:15	1408:24	20	61	137	2		
11539	167	89/06/16	1516:17	1522:18	672	51	2441	2	5536	
11541	167	89/06/16	1643:52	1644:54	89	55	528	2	5534	SN
11542	167	89/06/16	1655:48	1657:15	572	724	45070	6	5542	M5,DG
11540	167	89/06/16	2016:04	2016:09	58	59	266	3	5533	
11543	167	89/06/16	2147:55	2148:16	28	57	290	2		
11544	167	89/06/16	2149:48	2150:10	336	154	11346	4	5533	ND
11545	167	89/06/16	2254:13	2255:55	234	61	1435	2		SN
11546	167	89/06/16	2318:27	2318:45	50	53	415	3		
11547	168	89/06/17	0034:01	0034:08	23	101	360	4	5533	
11548	168	89/06/17	0059:34	0059:56	87	68	615	3	5533	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11549	168	89/06/17	0513:23	0513:38	27	47	170	2		ND
11550	168	89/06/17	0903:41	0904:09	35	54	191	2	5545	
11551	168	89/06/17	0942:41	0943:09	158	93	2528	5	5533	SN
11552	168	89/06/17	1013:57	1017:13	467	427	36723	6		
11553	168	89/06/17	1140:40	1141:12	75	49	318	2	5528	
11554	168	89/06/17	1149:27	1150:21	86	107	1824	2	5533	
11555	168	89/06/17	1552:51	1602:40	1917	655	3.29E+05	6	5528	M5,ES
11556	168	89/06/17	2058:34	2058:53	50	110	919	3	5528	
11557	169	89/06/18	0017:20	0017:35	41	154	1221	2		
11558	169	89/06/18	1217:56	1220:29	165	55	1389	2	5536	
11559	169	89/06/18	1809:50	1810:09	38	46	123	2		
11560	169	89/06/18	1817:36	1817:51	36	52	110	2		
11561	170	89/06/19	0033:06	0033:16	34	81	733	2		
11562	170	89/06/19	0332:48	0333:02	57	68	647	2		
11563	170	89/06/19	0514:45	0514:55	26	62	179	2		
11564	170	89/06/19	0530:12	0542:17	1361	295	1.05E+05	5	5528	EN,DG
11565	170	89/06/19	0638:33	0639:57	195	64	2347	2		
11566	170	89/06/19	0648:30	0649:05	47	84	701	3		
11567	170	89/06/19	1435:34	1435:51	41	81	655	3	5552	
11568	170	89/06/19	2043:49	2044:06	40	65	513	2		
11569	170	89/06/19	2044:58	2045:26	58	51	195	2		
11570	170	89/06/19	2048:34	2048:48	38	59	277	2		
11571	170	89/06/19	2057:48	2058:13	66	98	1853	4		
11572	170	89/06/19	2225:08	2225:17	27	51	158	2	5533	
11573	170	89/06/19	2339:04	2339:18	24	51	151	2	5533	
11574	170	89/06/19	2340:00	2340:04	14	46	78	2	5533	
11575	171	89/06/20	0235:19	0235:27	25	50	180	2		
11576	171	89/06/20	0236:12	0238:32	197	63	1655	2		
11584	171	89/06/20	0422:19	0422:34	23	46	107	2		
11585	171	89/06/20	0437:49	0437:54	39	47	190	2		
11577	171	89/06/20	0909:26	0910:17	269	376	23887	4		
11578	171	89/06/20	0925:07	0925:14	15	68	186	2		
11579	171	89/06/20	0936:35	0936:42	14	54	120	2		
11580	171	89/06/20	1235:25	1235:27	22	47	150	2		
11581	171	89/06/20	1454:28	1457:28	1663	2383	3.96E+05	9	5528	M5,SN,ES
11590	172	89/06/21	0048:45	0049:06	30	104	802	2		
11582	172	89/06/21	0332:23	0332:36	23	65	170	2		
11583	172	89/06/21	0447:29	0449:09	198	105	5754	2	5552	SN
11586	172	89/06/21	0806:51	0807:02	16	46	79	2	5555	
11587	172	89/06/21	1126:57	1136:28	1075	215	16500	3	5555	I
11588	172	89/06/21	1324:14	1324:29	31	55	147	2		
11589	172	89/06/21	1409:17	1410:15	116	131	2613	3		
11591	172	89/06/21	1423:23	1423:44	37	41	212	2		
11592	172	89/06/21	1603:03	1603:27	31	46	186	2		
11593	172	89/06/21	1715:54	1722:33	772	103	14495	2	5555	
11594	172	89/06/21	1848:29	1849:04	197	77	2313	2	5555	
11595	172	89/06/21	2042:22	2042:57	42	54	220	2		
11596	172	89/06/21	2056:12	2056:53	46	62	557	2	5555	
12567	172	89/06/21	2204:16	2204:22	13	80	184	3		I
11598	172	89/06/21	2328:26	2328:42	18	48	88	2		
11597	172	89/06/21	2347:01	2347:14	27	48	168	2		
11599	173	89/06/22	0133:08	0133:59	78	54	323	2		
11600	173	89/06/22	0255:55	0256:03	22	58	244	2		
11601	173	89/06/22	0706:09	0706:17	31	47	115	2	5555	
11602	173	89/06/22	0715:28	0715:32	12	86	123	3	5559	
11603	173	89/06/22	0911:46	0912:07	127	50	862	2	5552	
11604	173	89/06/22	1407:14	1407:25	15	53	101	2	5555	
11605	173	89/06/22	1444:36	1444:55	340	262	8661	7	5555	
11606	173	89/06/22	2056:55	2057:15	40	73	348	3	5557	
11607	173	89/06/22	2119:32	2120:18	97	57	1087	2	5557	
12568	173	89/06/22	2306:12	2306:41	115	60	894	2	5555	I
11608	174	89/06/23	0010:38	0011:47	86	69	728	4	5555	
11609	174	89/06/23	0037:54	0038:03	28	48	120	2	5563	
11610	174	89/06/23	0134:50	0135:07	66	59	910	3	5565	
11611	174	89/06/23	0327:10	0327:49	107	54	1003	2		
11612	174	89/06/23	0345:52	0346:07	28	51	120	2		
11613	174	89/06/23	0351:23	0351:33	25	73	370	3		
11614	174	89/06/23	0456:31	0456:52	104	179	2376	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11615	174	89/06/23	0612:48	0612:56	21	48	96	2		
11616	174	89/06/23	0748:25	0748:42	35	53	281	3		
11617	174	89/06/23	1237:35	1238:14	43	48	173	2	5544	
11618	174	89/06/23	2356:34	2356:38	76	103	1247	2	5542	
11619	175	89/06/24	2219:25	2219:43	135	55	248	2	5542	
11620	176	89/06/25	0349:04	0350:37	170	91	3024	2	5555	EN
11621	176	89/06/25	0943:19	0943:30	31	61	239	2	5555	
11622	176	89/06/25	1039:15	1039:25	64	67	784	2		
12774	177	89/06/26	0352:15	0352:16	7	57	53	15		NS,GB
11623	177	89/06/26	0358:03	0358:18	24	117	727	2		
11624	177	89/06/26	0849:44	0849:55	30	53	213	2		
11625	177	89/06/26	1519:48	1520:20	154	49	681	3		SA
11626	177	89/06/26	2106:39	2108:34	208	129	5062	2	5569	
11627	178	89/06/27	0008:53	0009:14	94	66	1019	2	5569	
11628	178	89/06/27	1337:18	1338:28	86	51	458	2	5555	
11629	178	89/06/27	2155:10	2155:32	37	87	520	3		
11630	178	89/06/27	2155:50	2156:01	27	162	454	3		FS
11631	179	89/06/28	0641:00	0641:13	34	51	363	2	5544	
11633	179	89/06/28	1157:39	1157:43	27	41	104	2	5569	
11632	179	89/06/28	1643:40	1645:05	151	47	713	2	5555	SA
11634	179	89/06/28	1737:50	1738:38	75	47	359	2	5552	
11635	179	89/06/28	1745:30	1745:48	47	52	447	2	5555	
11636	179	89/06/28	1819:27	1819:48	299	185	9834	2	5569	EN,SA
11637	180	89/06/29	0254:23	0254:50	38	46	231	2	5555	
11639	180	89/06/29	2109:44	2112:14	2261	2009	6.70E+05	15	5555	M5,I ,SN
11640	180	89/06/29	2202:40	2202:44	20	56	161	2	5555	
11641	181	89/06/30	0403:09	0403:47	54	49	325	2		
11642	181	89/06/30	0711:05	0724:13	1024	173	57882	5		EN
11643	181	89/06/30	1319:29	1319:40	15	52	83	2		
11644	181	89/06/30	1321:16	1321:22	18	48	100	2		
11645	181	89/06/30	1322:06	1322:10	12	54	140	2		
11646	181	89/06/30	1329:55	1330:24	197	136	2515	2	5569	
11647	181	89/06/30	1333:59	1335:19	133	79	1183	2		
11648	181	89/06/30	1415:41	1416:43	434	91	3824	2	5569	
11649	181	89/06/30	1454:54	1500:36	786	3750	1.01E+05	14	5569	M5,SA,FS
12569	181	89/06/30	1639:46	1639:50	47	50	273	2		I
11650	181	89/06/30	1641:03	1642:10	135	66	1760	2	5569	I ,DG
11651	181	89/06/30	1717:35	1717:38	68	42	249	2		
11652	181	89/06/30	1720:58	1721:14	79	111	1264	3	5569	
11653	181	89/06/30	1737:03	1737:45	226	656	20907	5	5569	M5,ES
11654	181	89/06/30	1943:35	1943:43	31	61	209	2		
11655	182	89/07/01	2247:05	2247:09	15	47	104	2		
11656	183	89/07/02	0011:11	0012:09	155	59	1579	2	5575	
11657	183	89/07/02	2325:26	2326:04	106	73	736	2	5575	
11659	184	89/07/03	0135:28	0135:48	80	1725	14503	9	5574	M5,FS
11660	184	89/07/03	0138:39	0139:40	99	73	1298	3		
11658	184	89/07/03	2359:58	0000:43	201	18090	2.90E+05	12	5575	M5,DG
11661	185	89/07/04	1443:19	1443:52	77	294	5717	4	5575	
11662	186	89/07/05	1645:52	1645:55	130	413	10293	6	5575	SA
11663	186	89/07/05	1824:26	1825:03	80	107	1103	2		
11664	186	89/07/05	2219:29	2220:44	285	796	37105	8		M5
11667	187	89/07/06	2302:53	2303:41	101	59	1187	3		
11668	188	89/07/07	0048:34	0048:59	108	85	2183	2	5572	
12570	188	89/07/07	0334:27	0337:13	195	56	1210	4	5572	I
11673	188	89/07/07	0402:48	0403:18	94	66	982	2	5572	
11674	189	89/07/08	1416:59	1417:06	15	98	534	6	5572	NS,GB
11675	189	89/07/08	2156:57	2157:17	39	53	360	2	5579	ND
12703	190	89/07/09	1023:49	1023:51	4	72	59	6		NS,GB
11676	190	89/07/09	1320:53	1321:26	89	51	585	2	5582	
11680	191	89/07/10	2129:20	2129:43	35	45	110	2		
11679	192	89/07/11	0632:53	0632:57	21	42	68	2	5575	
11681	193	89/07/12	2122:53	2123:07	54	49	415	2		
11682	194	89/07/13	0034:37	0034:58	25	42	102	2		
11684	197	89/07/16	1719:34	1719:47	35	110	830	4	5597	M5
11685	198	89/07/17	0004:52	0005:01	41	49	332	2		
11686	198	89/07/17	0006:44	0006:47	30	128	957	3		
12571	198	89/07/17	0009:40	0010:52	78	45	405	2	5597	I
11687	198	89/07/17	0548:38	0551:14	292	373	16388	5	5586	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11688	199	89/07/18	0627:42	0628:33	115	67	1370	3	5597	
11689	199	89/07/18	0631:59	0632:02	58	44	229	2		
11692	199	89/07/18	2057:50	2058:26	41	39	215	2	5601	
11693	200	89/07/19	0400:42	0401:18	108	64	1244	2	5601	
11694	200	89/07/19	2124:55	2126:27	145	67	1370	3	5601	I
12572	201	89/07/20	0010:04	0010:18	43	102	1190	3	5596	I
11695	201	89/07/20	1126:39	1127:28	158	40	682	2	5601	
8412	201	89/07/20	1336:11	1336:14	6	36	57	8		NS,GB
12573	201	89/07/20	1651:17	1651:34	48	43	462	2	5601	I
11696	201	89/07/20	2024:55	2027:38	424	2922	96124	10	5597	
11697	202	89/07/21	0350:52	0351:14	37	51	272	2		
11698	202	89/07/21	0523:51	0524:16	67	47	387	2		
11699	202	89/07/21	0538:25	0538:37	22	47	161	2		
11700	202	89/07/21	0543:30	0544:45	243	148	7650	4	5597	
11701	202	89/07/21	1015:41	1015:50	50	49	313	2		
11704	203	89/07/22	0315:44	0316:14	63	43	186	2	5606	
11702	203	89/07/22	0552:48	0553:00	22	43	124	2		
11703	203	89/07/22	0602:39	0603:08	52	35	191	2	5597	
11705	203	89/07/22	1644:32	1645:26	66	39	211	2	5608	
11706	203	89/07/22	1842:38	1843:04	42	52	393	2	5608	
11707	205	89/07/24	1030:31	1030:47	20	43	117	2		
11708	205	89/07/24	1758:24	1759:02	48	42	207	2		
11709	205	89/07/24	2133:13	2133:20	20	45	111	2		
11710	206	89/07/25	0029:56	0030:20	180	45	1002	2		
12574	206	89/07/25	0202:17	0202:30	68	81	682	3	5603	I
12575	206	89/07/25	0204:45	0205:02	47	41	255	2		I
11711	206	89/07/25	0453:06	0453:19	104	231	5112	5		
11712	206	89/07/25	0622:18	0623:08	76	39	273	2		
11713	206	89/07/25	1223:36	1223:48	21	42	128	2		
11714	206	89/07/25	1351:01	1351:09	32	38	175	2		
11715	206	89/07/25	1548:29	1549:18	91	70	716	2	5603	
11716	206	89/07/25	1553:17	1553:46	47	47	257	2		
11717	206	89/07/25	1706:32	1708:26	199	41	1111	2		
11718	206	89/07/25	1710:51	1710:59	36	66	562	2		
11719	206	89/07/25	2008:45	2009:01	20	42	129	4		NS,GB
12576	207	89/07/26	0037:40	0039:02	124	56	971	2		I
11720	207	89/07/26	0121:14	0121:33	29	42	130	2	5597	
11721	207	89/07/26	0257:26	0258:16	58	50	290	2	5597	
11722	207	89/07/26	1334:31	1335:09	117	81	1548	2		
11723	207	89/07/26	1349:56	1350:24	104	191	3761	4		
11724	208	89/07/27	1351:58	1352:18	27	46	98	2		
11725	209	89/07/28	0021:30	0022:09	103	38	372	2	5608	
12577	210	89/07/29	0610:30	0611:33	143	708	12000	5		M5,I
11727	211	89/07/30	0452:06	0453:57	145	39	812	2	5619	
11728	212	89/07/31	1750:59	1753:53	588	44	13274	4	5623	
11729	212	89/07/31	2055:45	2056:15	181	170	4690	4	5612	I
11730	213	89/08/01	0123:24	0125:45	294	103	7488	2		
11731	213	89/08/01	0434:27	0435:23	196	58	1826	2	5623	
11732	213	89/08/01	2130:57	2131:21	66	59	564	3		
11733	213	89/08/01	2133:46	2133:55	21	44	102	2		
11734	214	89/08/02	1000:45	1002:45	167	36	468	2	5617	
12578	214	89/08/02	2225:42	2228:10	192	122	2950	3		I
11735	214	89/08/02	2356:39	2356:48	13	74	203	2		
11736	215	89/08/03	0005:37	0005:49	28	45	170	2		
11737	215	89/08/03	0306:50	0307:39	92	57	941	2		
11738	216	89/08/04	1002:37	1002:51	29	43	158	2	5622	
11741	217	89/08/05	0217:02	0217:19	188	57	1335	2	5612	
11742	217	89/08/05	0254:25	0254:32	15	78	201	2		
11743	217	89/08/05	0831:49	0831:55	12	51	82	2		
11744	217	89/08/05	0839:42	0839:58	42	32	149	2		
11745	217	89/08/05	1019:41	1022:30	561	196	8492	4	5622	
11752	217	89/08/05	1947:06	1947:20	52	36	146	2	5622	
12579	217	89/08/05	2352:16	2352:47	98	39	555	2	5628	I
11748	218	89/08/06	0043:56	0044:08	132	57	1617	2		
11749	218	89/08/06	0203:00	0203:31	143	79	1106	2	5633	
12580	218	89/08/06	0747:24	0749:30	463	676	48700	8	5633	I ,ND
12581	218	89/08/06	0958:02	0958:20	31	71	401	3		I
12582	218	89/08/06	1208:03	1209:33	410	246	22900	6	5622	I ,SN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
12583	218	89/08/06	1217:43	1217:57	43	47	345	2		I
12584	218	89/08/06	1223:36	1223:53	40	47	198	2		I
12585	218	89/08/06	1356:28	1356:43	26	40	167	2		I
12586	218	89/08/06	1846:01	1846:15	25	41	171	2	5623	I
11753	218	89/08/06	2318:22	2318:58	95	46	664	2		
11754	218	89/08/06	2321:56	2323:23	465	70	4201	2		
11755	218	89/08/06	2336:07	2340:16	565	7485	4.05E+05	13	5622	M5,ES
11756	219	89/08/07	0032:04	0032:25	138	42	454	2		
11757	219	89/08/07	0036:09	0036:51	150	54	675	2		
11758	219	89/08/07	0040:11	0042:21	254	79	2839	2	5629	
11759	219	89/08/07	0512:36	0513:03	33	36	116	2	5629	
11760	219	89/08/07	0538:33	0538:40	25	60	293	2		
11761	219	89/08/07	1419:11	1419:31	29	87	408	3		
11762	219	89/08/07	1728:56	1729:14	38	410	2536	7	5629	
11763	219	89/08/07	1909:05	1909:13	35	190	955	3		
11764	219	89/08/07	2049:19	2053:54	1184	13880	1.32E+06	15	5622	M5,ES
11765	220	89/08/08	0017:41	0017:56	57	38	213	2		
12672	220	89/08/08	0740:49	0741:03	45	86	973	2		I
11766	221	89/08/09	0330:08	0330:27	70	178	1812	4		
11767	221	89/08/09	0646:19	0646:38	84	261	3670	7	5638	
11768	221	89/08/09	1018:29	1019:14	132	180	4945	4	5629	
11769	221	89/08/09	2009:17	2009:52	56	46	424	2		
11770	221	89/08/09	2033:46	2033:50	17	41	90	2	5634	
11771	221	89/08/09	2324:35	2324:43	24	53	214	2		
11772	222	89/08/10	0139:21	0141:21	281	1273	51670	6	5629	M5
11773	222	89/08/10	0233:03	0233:15	89	237	2325	3		
11774	222	89/08/10	0304:31	0306:52	215	62	1436	2		
11775	222	89/08/10	0313:16	0313:37	49	83	914	2		
11776	222	89/08/10	0442:03	0442:29	38	69	484	3	5639	
11780	222	89/08/10	0522:43	0523:31	125	124	4480	3	5639	
11777	222	89/08/10	0615:13	0615:39	40	39	226	2	5633	
11778	222	89/08/10	0723:21	0723:35	25	43	100	2		
11779	222	89/08/10	0741:39	0741:48	14	42	86	2		
11781	222	89/08/10	1055:42	1055:49	20	58	214	2		
11782	222	89/08/10	2108:58	2109:34	96	260	2946	3		
11789	222	89/08/10	2224:08	2224:31	32	42	214	2		
11783	222	89/08/10	2359:21	2359:26	14	73	206	3		
11784	223	89/08/11	0012:18	0014:16	144	50	805	2	5629	
11785	223	89/08/11	0048:01	0048:22	27	32	98	2	5641	
11786	223	89/08/11	0135:51	0136:42	124	52	854	2	5639	
11787	223	89/08/11	0452:18	0452:21	12	47	97	2		
11788	223	89/08/11	0523:56	0524:04	130	63	986	2	5629	
11790	223	89/08/11	1355:10	1355:48	104	83	1585	2		
11791	223	89/08/11	1844:14	1844:36	64	51	676	4	5629	
11792	223	89/08/11	2000:30	2007:04	641	793	33585	5	5643	
11793	223	89/08/11	2017:21	2019:57	629	252	22665	3	5629	
11794	223	89/08/11	2256:19	2257:50	1102	893	1.64E+05	5	5629	SN,SG
11795	223	89/08/11	2346:21	2346:34	26	37	173	2	5629	
11796	224	89/08/12	0050:02	0050:32	99	40	406	2		
11797	224	89/08/12	0208:57	0209:11	308	172	2259	4		
11798	224	89/08/12	0237:39	0237:46	20	35	91	3		
11799	224	89/08/12	0516:31	0517:01	46	49	338	2		
11800	224	89/08/12	0602:33	0602:41	29	43	171	2		
11801	224	89/08/12	0730:11	0730:27	75	38	260	2		
11804	224	89/08/12	1035:46	1035:51	54	35	164	2		
11802	224	89/08/12	1253:28	1254:11	72	30	200	2		
11803	224	89/08/12	1418:27	1421:34	3556	7580	2.90E+06	9	5629	M5,SN,EN,IS,DG
11805	224	89/08/12	1728:02	1728:15	177	39	397	2		
11806	224	89/08/12	2225:32	2226:03	109	47	659	2		
11946	225	89/08/13	0550:36	0550:42	14	46	119	2		I
11947	225	89/08/13	0624:01	0624:17	35	176	1390	3		I
11948	225	89/08/13	0716:38	0719:13	315	2347	1.20E+05	7	5629	M5,I ,ES
11952	225	89/08/13	1151:20	1151:38	53	85	1080	2		I
11953	225	89/08/13	1324:28	1324:44	29	512	3040	5	5629	I
11807	225	89/08/13	1945:34	1945:43	30	64	272	2		
11808	225	89/08/13	1946:56	1947:10	49	59	500	2	5629	
11809	226	89/08/14	0023:18	0023:52	95	717	8043	6		
11810	226	89/08/14	0033:26	0034:05	75	46	292	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11811	226	89/08/14	0039:26	0043:12	1745	53950	1.39E+07	15	5629	M5,IN,DG
11812	226	89/08/14	0400:47	0402:41	181	143	4043	2	5629	
11813	226	89/08/14	0630:18	0634:07	500	42	2176	3	5634	
11814	226	89/08/14	0642:43	0643:07	28	40	99	2		
11815	226	89/08/14	0644:11	0644:22	31	39	127	2		
11816	226	89/08/14	0659:59	0700:19	75	101	1253	2		
11817	226	89/08/14	0704:32	0704:43	110	101	3145	2	5629	
12587	226	89/08/14	0957:57	0958:05	22	41	136	2		I
12588	226	89/08/14	1011:04	1013:54	356	467	23400	5	5643	I
12589	226	89/08/14	1056:07	1057:01	98	42	590	2	5645	I
11818	226	89/08/14	1151:46	1151:57	34	48	205	2	5643	
11819	226	89/08/14	1321:55	1322:06	31	38	166	2		
11820	226	89/08/14	1855:32	1857:20	122	45	723	2	5629	ND
11821	226	89/08/14	2025:36	2026:04	58	135	1540	3	5643	
11822	226	89/08/14	2157:29	2157:44	33	57	328	2	5634	
11823	226	89/08/14	2205:30	2205:44	35	73	585	2		
11824	226	89/08/14	2320:04	2325:04	1098	744	1.43E+05	3		SN,DG
11825	226	89/08/14	2344:49	0001:21	1679	1154	2.08E+05	6	5629	M5,EN
11826	227	89/08/15	0046:20	0047:54	1106	189	20927	2	5629	
11827	227	89/08/15	0105:08	0106:46	557	248	8361	3		
11828	227	89/08/15	0117:55	0122:06	1638	142	32637	2		
11829	227	89/08/15	0218:32	0257:33	9060	4882	4.89E+06	15	5629	M5,SN,EN,IN,DG
11830	227	89/08/15	0526:41	0526:58	42	46	368	2		
11831	227	89/08/15	0721:52	0721:55	30	44	192	2		
11833	227	89/08/15	0924:23	0925:31	113	35	351	2	5629	
11832	227	89/08/15	1229:58	1230:14	29	70	508	3	5629	
11834	227	89/08/15	1345:52	1348:09	1029	155	65192	2	5629	EN,SA
11835	227	89/08/15	1609:25	1609:44	120	82	2136	3	5643	
11836	227	89/08/15	1700:28	1700:47	148	233	3202	3	5629	
11837	227	89/08/15	1752:11	1756:01	450	52	3482	2	5629	
12590	227	89/08/15	1838:31	1839:02	88	1433	62172	8		I ,ND
11838	227	89/08/15	2046:11	2046:34	738	267	51500	2	5629	I ,SN
12591	227	89/08/15	2101:39	2101:55	24	51	136	2		I
12592	227	89/08/15	2120:39	2123:38	922	97	14800	2		I
12593	227	89/08/15	2142:57	2143:42	87	62	1040	2		I ,EN
12594	227	89/08/15	2231:31	2231:54	32	43	162	2		I
12595	227	89/08/15	2305:47	2306:05	31	40	179	2		I
12596	227	89/08/15	2351:29	0000:35	654	50	1370	3		I
11839	228	89/08/16	0027:42	0029:14	1118	191	35392	2		
11840	228	89/08/16	0123:04	0123:31	20110	126111	4.84E+07	15	5629	M5,I ,SN,EN,IN IS,DG
11855	228	89/08/16	0936:12	0937:25	257	43	1679	2		
11856	228	89/08/16	1001:01	1001:21	34	34	131	2		
11857	228	89/08/16	1132:45	1133:24	44	43	246	2		
11841	228	89/08/16	1911:47	1911:58	29	36	136	2	5644	
11842	228	89/08/16	2324:45	2325:16	89	53	465	2	5645	
11843	228	89/08/16	2331:51	2332:01	22	38	69	2		
11844	229	89/08/17	0027:08	0113:21	17374	7070	1.03E+07	15	5629	M5,SN,IN
11845	229	89/08/17	1854:20	1908:04	938	47	3413	2	5641	SN
11846	229	89/08/17	2033:58	2034:36	61	43	297	2		
11847	229	89/08/17	2122:42	2122:46	14	52	117	2		
11848	229	89/08/17	2339:01	2344:36	738	150	21451	3		EG
11849	231	89/08/19	0207:23	0207:56	161	55	1168	3		
11850	231	89/08/19	1838:42	1839:09	42	47	353	2		
11851	231	89/08/19	1918:36	1919:10	98	53	914	2	5645	
11852	232	89/08/20	1739:47	1740:07	27	43	199	2		
11853	232	89/08/20	2226:27	2226:39	17	36	93	2		
11854	233	89/08/21	0147:04	0147:05	34	41	139	2		
11858	235	89/08/23	0858:00	0910:20	1294	49	1486	2		SA,DG
11862	235	89/08/23	1446:48	1448:24	193	42	1034	2	5658	
11863	235	89/08/23	1914:47	1915:29	70	37	407	3	5641	
11864	235	89/08/23	1957:53	1958:56	162	42	1046	2	5643	
11865	236	89/08/24	0502:32	0502:42	48	37	192	2		
11867	239	89/08/27	1309:17	1309:54	114	76	1706	5		
11868	239	89/08/27	1616:09	1617:23	110	55	810	2		
11869	239	89/08/27	2330:38	2330:51	69	41	376	2		
11870	239	89/08/27	2345:01	2345:16	41	48	266	2		
11871	240	89/08/28	0114:01	0114:40	107	42	450	2		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11872	240	89/08/28	0222:24	0222:45	85	136	1299	4		
11873	240	89/08/28	0224:49	0224:59	26	50	238	2		
11874	240	89/08/28	0428:58	0430:19	335	41	14132	5		
11875	240	89/08/28	0551:37	0552:16	175	88	2771	3		
10539	240	89/08/28	0558:34	0558:36	10	125	395	15		NS,GB
11876	240	89/08/28	0731:53	0732:10	59	52	304	2		
11877	240	89/08/28	0736:19	0736:34	55	37	188	2		
11879	240	89/08/28	1154:31	1154:40	26	43	145	2		
11878	240	89/08/28	1621:06	1621:22	40	48	311	2		
11880	240	89/08/28	1930:59	1931:14	29	43	140	2		
11881	240	89/08/28	2241:32	2242:24	362	255	16049	5		
11882	241	89/08/29	0426:55	0427:35	128	58	1311	2		
11883	241	89/08/29	0635:56	0636:17	29	53	372	2		
11884	241	89/08/29	1717:08	1720:52	829	311	75720	3	5669	EN,SG,DG,ND
11885	241	89/08/29	1807:54	1808:08	127	159	5010	2	5669	
11886	241	89/08/29	1843:14	1843:33	40	43	191	2		
11887	241	89/08/29	1844:36	1845:15	95	65	813	2	5655	
11889	241	89/08/29	1937:56	1939:09	217	42	1312	3	5669	
11888	241	89/08/29	2007:06	2007:20	100	50	333	2		
12597	241	89/08/29	2337:46	2338:11	42	64	775	3		I
11893	242	89/08/30	0204:48	0205:08	95	94	723	3		
11894	242	89/08/30	0235:58	0239:39	459	2901	1.58E+05	7	5669	M5,EN
11895	242	89/08/30	0517:07	0517:54	72	84	1310	3		
11896	242	89/08/30	0520:16	0521:27	142	136	3524	4		
11890	242	89/08/30	0846:49	0847:09	55	49	274	2		
11891	242	89/08/30	1442:58	1443:31	99	113	2606	3		ND
11892	242	89/08/30	1736:22	1736:45	30	45	148	2		
11897	242	89/08/30	2031:36	2031:43	33	62	365	2		
11898	242	89/08/30	2100:44	2100:49	9	83	184	3	5669	
11899	242	89/08/30	2203:13	2203:33	46	55	633	2		
11900	242	89/08/30	2320:35	2320:43	18	42	95	2		
11902	243	89/08/31	0057:33	0058:32	289	1085	47607	7	5669	M5
11903	243	89/08/31	0111:51	0112:19	43	54	348	2		
11904	243	89/08/31	0113:14	0113:20	34	43	181	2		
11901	243	89/08/31	0752:06	0752:11	24	40	113	3		
11905	243	89/08/31	1615:19	1619:37	693	833	78152	8		DG
11906	243	89/08/31	1637:34	1638:21	79	46	730	2	5670	
11907	243	89/08/31	1646:50	1647:32	96	53	623	2	5669	
11908	243	89/08/31	1649:26	1650:41	104	44	339	2	5669	
11909	243	89/08/31	1704:05	1704:29	41	40	157	2	5671	
11910	243	89/08/31	1830:06	1831:07	98	57	786	2	5670	
11911	243	89/08/31	1933:42	1933:48	17	43	105	2		
11912	243	89/08/31	1953:47	1953:54	14	41	72	2		
11913	243	89/08/31	2052:36	2053:13	86	43	640	2		
11914	244	89/09/01	0009:25	0009:40	19	39	110	2		
11918	244	89/09/01	0329:27	0329:38	21	48	132	2		
11919	244	89/09/01	0439:08	0439:13	12	44	81	2		
11915	244	89/09/01	0514:42	0515:02	41	42	208	3		
11916	244	89/09/01	0519:08	0519:35	197	44	677	2		EN
11917	244	89/09/01	0607:00	0617:39	2884	172	1.46E+05	6	5671	
11920	244	89/09/01	0807:52	0817:36	932	17950	1.83E+06	15	5671	M5
11921	244	89/09/01	1538:05	1540:25	320	101	7529	3	5671	
11922	244	89/09/01	1713:38	1714:27	78	61	668	2	5671	
11924	244	89/09/01	1721:01	1721:19	42	60	354	4		
11923	244	89/09/01	1848:53	1849:03	20	51	173	2		
11925	244	89/09/01	2122:14	2123:03	125	76	2121	2		
11926	245	89/09/02	1930:38	1930:55	159	178	4028	5	5699	
11927	245	89/09/02	2056:00	2056:48	56	44	346	2		
11928	245	89/09/02	2109:11	2109:28	127	1550	21404	7	5669	SG
11929	245	89/09/02	2226:32	2233:51	1143	587	1.44E+05	4	5669	M5,ES
11930	246	89/09/03	0018:33	0018:52	69	274	2859	4		
11931	246	89/09/03	0430:07	0430:18	90	49	260	2	5669	
11932	246	89/09/03	0436:03	0436:24	48	41	194	2	5669	
11933	246	89/09/03	0731:27	0731:54	61	186	2878	4	5669	
11934	246	89/09/03	1500:22	1500:31	16	44	77	2	5672	
11935	246	89/09/03	1508:27	1510:49	471	46	2334	2	5669	
11937	246	89/09/03	1706:21	1706:29	31	52	283	2	5669	
11938	246	89/09/03	1754:05	1754:17	18	74	472	4	5672	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
11936	246	89/09/03	1838:39	1842:15	390	66	3869	2	5669	EN
11939	247	89/09/04	0146:19	0148:33	151	61	1509	4		
11940	247	89/09/04	0302:33	0303:33	447	199	11394	5	5669	SA
11941	247	89/09/04	0459:42	0500:26	68	44	486	2	5669	
11942	247	89/09/04	0521:30	0523:38	153	77	2594	4	5669	
11943	247	89/09/04	1521:31	1525:41	398	252	19197	4	5669	
11944	247	89/09/04	1722:07	1722:14	15	53	165	3		
11945	247	89/09/04	1907:22	1908:07	201	254	8089	5	5669	EN
11954	248	89/09/05	0513:48	0514:01	24	69	351	2		
11955	248	89/09/05	0545:32	0547:04	199	49	1238	2	5669	
11956	248	89/09/05	0601:31	0601:36	17	36	74	2		
11949	248	89/09/05	1002:24	1002:42	27	39	137	2		
11950	248	89/09/05	1128:56	1129:06	37	59	350	2		
11951	248	89/09/05	1144:49	1145:22	161	53	1376	2		
11957	248	89/09/05	1600:43	1602:33	755	576	27579	5	5669	
11958	248	89/09/05	1731:18	1732:09	101	53	980	2	5669	
11959	248	89/09/05	1920:23	1921:03	85	134	2227	2	5669	
11960	248	89/09/05	2219:25	2222:31	472	9617	2.07E+05	12	5669	M5
12600	248	89/09/05	2241:44	2241:53	69	77	1510	3		I
11961	249	89/09/06	0458:21	0458:30	24	55	257	2		
11962	249	89/09/06	1511:24	1511:45	37	95	735	4	5669	
11963	250	89/09/07	0022:06	0022:12	17	106	419	3		
12598	250	89/09/07	0055:52	0056:07	30	1002	2780	5		I ,FS
12599	250	89/09/07	0138:40	0139:30	151	242	8110	3	5669	I
11964	250	89/09/07	0331:20	0331:37	41	41	280	2		
11965	250	89/09/07	0335:48	0336:21	65	38	319	2	5669	I
11966	250	89/09/07	0345:41	0346:02	29	36	127	2	5675	
11967	250	89/09/07	0517:49	0519:14	157	266	3734	5	5669	
11968	250	89/09/07	0531:13	0531:36	149	54	1222	2		
11969	250	89/09/07	0535:38	0536:06	43	54	468	2		
11970	250	89/09/07	0658:32	0658:54	27	34	118	2	5686	
11971	250	89/09/07	0801:15	0802:01	92	59	1298	2	5669	
11972	250	89/09/07	0818:51	0819:01	40	43	162	2	5682	
11973	250	89/09/07	0821:03	0824:05	510	608	63093	4	5669	M5
11974	250	89/09/07	0949:57	0950:58	69	87	1410	3		
11975	250	89/09/07	1008:59	1009:17	82	74	655	2		
11976	250	89/09/07	1057:10	1057:29	42	38	137	2		
11977	250	89/09/07	1602:18	1602:20	14	42	132	2		
11978	250	89/09/07	1617:33	1618:43	120	41	626	2		
11979	250	89/09/07	1857:33	1858:14	114	46	761	2	5669	
11980	250	89/09/07	1903:34	1903:57	43	39	211	2		
11981	250	89/09/07	2032:16	2033:35	114	111	1880	4	5669	
11982	250	89/09/07	2035:55	2036:02	44	38	238	2	5680	
11983	250	89/09/07	2313:46	2313:57	34	77	720	3		
11990	251	89/09/08	0124:04	0124:14	27	46	232	2		
11991	251	89/09/08	0125:33	0125:38	20	45	118	2		
11992	251	89/09/08	0231:26	0233:23	234	350	7231	4	5669	
11993	251	89/09/08	0341:17	0342:09	86	46	617	2	5676	
11984	251	89/09/08	0407:18	0407:32	257	7151	92149	9	5669	M5,SG
11985	251	89/09/08	0424:17	0425:09	85	41	364	2	5676	
11986	251	89/09/08	0428:51	0429:14	88	59	524	2	5669	
11987	251	89/09/08	0554:36	0554:51	53	53	508	3		
11988	251	89/09/08	0645:48	0646:06	61	256	1997	4	5669	SA
11989	251	89/09/08	0727:25	0727:43	38	77	634	3	5669	
11994	251	89/09/08	1330:32	1330:46	67	33	224	2		
11995	251	89/09/08	1434:08	1434:15	18	54	166	2		
11996	251	89/09/08	1620:37	1620:49	45	46	189	2	5669	
11997	251	89/09/08	1751:35	1753:12	346	200	14099	4	5680	
12601	252	89/09/09	0011:01	0011:52	100	256	12800	4		I ,ND
11998	252	89/09/09	0743:28	0743:39	23	41	158	2		
11999	252	89/09/09	0909:15	0910:40	1532	111000	4.51E+06	15	5680	M5,DG
12000	252	89/09/09	1033:46	1033:51	9	47	90	2		
12001	252	89/09/09	1109:09	1110:36	223	594	31481	5		
12002	252	89/09/09	1245:56	1247:11	140	123	3108	2	5680	
12003	252	89/09/09	1533:21	1534:16	252	452	13705	5	5680	
12004	252	89/09/09	1646:15	1646:24	39	80	355	2		
12005	252	89/09/09	1652:29	1652:38	21	36	118	2	5672	
12006	252	89/09/09	1809:12	1812:55	314	59	2228	2		M5

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
12007	252	89/09/09	1933:09	1933:29	502	699	74900	3	5669	I ,SN
12602	252	89/09/09	1943:50	1944:42	135	62	981	2		I ,DG
12603	252	89/09/09	1948:13	1948:30	142	51	1310	2		I
12604	252	89/09/09	2001:08	2001:37	41	35	153	2		I
12605	252	89/09/09	2140:01	2140:08	28	37	142	2		I
12008	253	89/09/10	0144:30	0144:37	26	51	185	2	5687	
12009	253	89/09/10	0222:10	0225:42	467	267	15810	4	5680	
12010	253	89/09/10	0454:53	0455:29	69	53	733	5	5686	
12011	253	89/09/10	0504:42	0504:49	22	69	300	3		
12012	253	89/09/10	0526:22	0527:07	65	42	460	2		
12013	253	89/09/10	0537:03	0539:34	199	250	10935	5	5669	EN
12014	253	89/09/10	0647:01	0651:12	484	201	10377	5	5680	
12015	253	89/09/10	0749:24	0756:06	1147	418	1.02E+05	6	5669	M5,ND
12016	253	89/09/10	1254:38	1256:47	586	2239	93063	11	5680	M5
12017	253	89/09/10	2309:59	2310:32	47	41	287	2	5683	
12018	253	89/09/10	2321:11	2322:17	91	39	418	3		
12019	253	89/09/10	2322:51	2323:45	165	51	1359	2		
12020	253	89/09/10	2327:36	2328:27	161	96	2020	3		
12021	253	89/09/10	2357:28	2357:44	30	36	173	2		
12022	254	89/09/11	1036:53	1037:13	46	63	561	3		
12606	254	89/09/11	1138:19	1138:34	35	84	638	4		I
12607	254	89/09/11	1144:48	1145:51	281	107	21805	4		I
12608	254	89/09/11	1340:00	1340:35	85	46	858	2		I
12023	254	89/09/11	1429:10	1429:25	25	56	445	2		
12024	254	89/09/11	1938:29	1940:08	246	10760	3.86E+05	15	5680	M5,ES
12025	254	89/09/11	2057:05	2058:18	229	65	9125	2	5683	EG,ND
12026	254	89/09/11	2242:41	2242:52	16	59	153	3		M5
12027	254	89/09/11	2247:19	2247:24	30	58	314	3		
12028	254	89/09/11	2248:30	2248:37	16	45	87	2		
12029	254	89/09/11	2341:33	2345:56	809	1390	96698	6	5669	M5
12030	255	89/09/12	0031:18	0031:43	39	49	440	2		
12031	255	89/09/12	0338:02	0338:15	43	50	336	2		
12032	255	89/09/12	0435:49	0436:29	94	40	524	2		
12033	255	89/09/12	0445:11	0446:12	176	46	1080	2		
12034	255	89/09/12	0454:46	0459:17	11982	1579	1.03E+06	7	5669	IN,EG
12035	256	89/09/13	0210:50	0210:54	41	44	182	2		
12036	256	89/09/13	0330:19	0334:24	822	903	1.43E+05	6	5686	M5
12037	256	89/09/13	0650:29	0650:43	27	38	174	2		
12038	256	89/09/13	0828:18	0829:38	370	98	8750	2	5676	
12039	256	89/09/13	1228:47	1229:34	72	51	686	3		SN
12040	256	89/09/13	1230:40	1231:07	86	90	1810	2		
12041	256	89/09/13	1305:13	1305:33	31	39	106	2		
12042	257	89/09/14	0658:31	0659:56	301	583	66265	9	5683	EG,DG
12043	257	89/09/14	1001:58	1002:14	28	37	126	2		
12044	257	89/09/14	1304:45	1305:05	27	42	106	2	5694	
12045	257	89/09/14	1738:25	1738:34	52	59	531	2		
12046	258	89/09/15	0611:21	0611:30	34	40	150	2		
12609	258	89/09/15	1218:06	1218:26	37	36	239	2	5697	I
12610	258	89/09/15	1238:30	1239:26	112	48	707	2		I
12611	258	89/09/15	1242:54	1243:08	38	51	292	3		I
12047	258	89/09/15	1635:36	1635:42	21	62	229	2		
12072	258	89/09/15	2245:17	2249:19	369	44	1732	3	5687	
12048	259	89/09/16	0054:09	0055:03	79	65	1318	2	5686	
12049	259	89/09/16	0837:22	0837:29	14	57	117	2		
12050	259	89/09/16	1001:31	1001:48	44	42	257	3		
12051	259	89/09/16	1134:10	1135:02	61	172	1351	3		
12052	259	89/09/16	1311:19	1312:53	234	48	1516	2		
12053	259	89/09/16	1317:58	1318:11	22	42	127	2		
12612	259	89/09/16	1406:28	1406:36	29	49	332	2		I
12613	259	89/09/16	1533:17	1533:36	39	61	449	2	5687	I
12054	259	89/09/16	1850:23	1850:38	55	310	1793	4	5686	
12056	259	89/09/16	2151:24	2151:45	62	50	440	4		
12055	260	89/09/17	0110:24	0111:05	96	48	375	2		
8559	260	89/09/17	1410:18	1410:20	15	29	82	4		NS,GB
12057	261	89/09/18	0011:35	0012:02	36	90	444	5		
12614	261	89/09/18	0249:37	0249:47	25	66	530	2		I
12058	261	89/09/18	0415:55	0416:09	154	50	1368	2	5698	
12059	261	89/09/18	0431:01	0431:33	117	44	774	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
12615	261	89/09/18	1153:10	1153:14	21	46	156	2		I
12060	261	89/09/18	1332:06	1332:37	67	44	280	2		
12066	261	89/09/18	2300:13	2300:32	33	36	127	2		
12061	262	89/09/19	0158:01	0158:13	49	48	336	2		
12062	262	89/09/19	0525:10	0527:34	172	75	2194	2	5698	DG
12063	262	89/09/19	0750:56	0751:03	37	68	316	2		
12064	262	89/09/19	0813:50	0814:05	48	47	191	2		
12065	262	89/09/19	0815:06	0815:31	61	41	408	2		
12067	262	89/09/19	0939:58	0940:20	81	234	3872	4		
12068	262	89/09/19	0952:34	0954:17	784	197	17416	3	5698	
12069	262	89/09/19	1230:33	1230:43	94	44	362	2		
12070	262	89/09/19	1531:00	1531:03	60	79	451	2	5694	
12071	262	89/09/19	1620:06	1620:10	16	72	289	3		SA
12073	263	89/09/20	0234:54	0235:13	28	333	1922	4	5698	FS
12074	263	89/09/20	0257:43	0258:17	78	164	1116	3		
12075	263	89/09/20	0259:54	0300:33	197	117	3869	4	5698	
12076	263	89/09/20	0544:28	0546:04	149	42	754	2		
12077	263	89/09/20	0710:39	0710:52	90	54	781	2		
12078	263	89/09/20	0713:59	0714:24	98	42	252	2		
12616	263	89/09/20	0958:31	0958:38	12	41	113	3		I
12079	263	89/09/20	1859:31	1859:39	26	82	484	2		
12080	264	89/09/21	0011:44	0011:58	59	54	535	2	5698	
12081	264	89/09/21	0127:33	0127:52	134	153	4310	4	5698	
12082	264	89/09/21	0257:40	0258:21	868	4577	3.45E+05	7	5698	M5
12083	264	89/09/21	1926:41	1936:58	993	431	49157	5	5698	
12084	264	89/09/21	1958:20	1958:27	25	53	18073	2		
12085	265	89/09/22	0217:34	0218:09	75	34	173	2	5698	
12086	265	89/09/22	0338:21	0338:30	24	45	166	2	5698	
12087	265	89/09/22	0438:46	0439:06	38	48	295	2		
12088	265	89/09/22	0517:35	0518:20	130	55	1170	2		
12089	265	89/09/22	0625:37	0626:38	183	1951	22640	6	5698	M5
12090	265	89/09/22	1704:47	1705:26	142	82	2408	2		
12091	265	89/09/22	1841:09	1841:23	32	41	153	2	5698	
12092	265	89/09/22	1853:20	1853:31	15	41	86	2		
12093	265	89/09/22	2001:25	2001:29	40	390	1267	15		NS,GB
12094	266	89/09/23	0359:58	0400:04	22	84	467	3		
12095	266	89/09/23	0646:44	0646:52	14	68	177	2		
12096	266	89/09/23	0655:15	0655:27	19	55	161	2		
12097	266	89/09/23	0834:08	0834:18	20	40	118	2		
12098	266	89/09/23	0857:45	0858:23	142	62	1492	3	5694	
12099	266	89/09/23	1330:45	1332:10	166	44	1186	2		SA
12100	266	89/09/23	2158:44	2159:12	60	37	198	2		
12101	266	89/09/23	2230:50	2233:09	254	50	2174	2		
12102	267	89/09/24	0444:35	0445:05	68	59	828	2		M5
12103	267	89/09/24	0557:48	0558:08	26	49	295	2		
12104	267	89/09/24	0840:14	0840:23	25	36	184	2		
12105	267	89/09/24	0842:50	0843:14	34	41	216	2	5698	
12106	267	89/09/24	0909:04	0909:15	89	54	521	2		
12107	267	89/09/24	0929:37	0929:44	24	44	179	2		
12108	267	89/09/24	1404:33	1404:47	29	53	363	3		
12109	267	89/09/24	1749:34	1750:03	59	64	1168	2		
12110	267	89/09/24	1752:02	1752:31	256	589	13467	4		M5
12111	267	89/09/24	1757:12	1759:01	181	1257	26463	7		
12112	268	89/09/25	0136:51	0138:11	162	49	1469	4		
12113	268	89/09/25	0147:26	0147:45	34	68	367	2	5698	
12114	268	89/09/25	0148:24	0148:49	42	47	241	2		
12115	268	89/09/25	0150:22	0150:50	41	39	197	2		
12116	268	89/09/25	0309:54	0310:54	320	68	3842	2		M5
12117	268	89/09/25	0519:05	0519:16	18	42	85	2		
12118	268	89/09/25	1657:42	1657:59	33	35	150	2		
12119	268	89/09/25	2121:33	2122:53	149	41	687	2		
12120	268	89/09/25	2300:32	2300:43	68	81	1193	2		
12121	268	89/09/25	2340:31	2342:48	502	1123	1.13E+05	6	5708	I
12122	269	89/09/26	0517:27	0517:49	40	73	648	3		
12123	269	89/09/26	0519:01	0520:04	84	47	420	3		
12124	269	89/09/26	0713:49	0714:02	60	54	307	2		
12125	269	89/09/26	0854:29	0854:39	22	43	120	2		I
12126	269	89/09/26	0857:06	0857:39	71	161	2153	3	5698	I

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
12129	269	89/09/26	1015:14	1015:20	38	118	637	4	5698	
12130	269	89/09/26	1018:14	1018:21	14	54	136	2		
12131	269	89/09/26	1024:48	1025:08	44	53	324	2	5708	
12127	269	89/09/26	1152:35	1153:14	113	583	3229	5	5698	M5
12128	269	89/09/26	1238:52	1239:16	170	266	5308	4	5698	
12132	269	89/09/26	1631:01	1631:52	118	184	4359	5		SA
12133	269	89/09/26	1738:03	1739:35	117	82	1880	4		ES
12134	269	89/09/26	1852:18	1853:06	208	114	3375	3		
12135	269	89/09/26	1858:59	1859:30	61	37	235	2		
12136	269	89/09/26	2045:04	2045:13	24	39	125	2		
12137	269	89/09/26	2154:37	2154:58	46	39	210	2		
12138	270	89/09/27	0003:51	0004:05	48	37	198	2		
12139	270	89/09/27	0006:08	0008:59	292	64	3687	3		M5
12140	270	89/09/27	0059:26	0101:58	333	55	3008	2	5708	
12141	270	89/09/27	0313:36	0313:50	28	122	565	4		
12142	270	89/09/27	0621:50	0621:55	14	40	48	2		
*12143	270	89/09/27	0722:23	0722:32	28	71	183	2		
*12144	270	89/09/27	1531:54	1532:20	59	81	554	2		
12145	270	89/09/27	2059:31	2059:51	65	169	2501	8		
12146	270	89/09/27	2101:20	2101:58	61	116	1992	5		
12147	270	89/09/27	2351:13	2351:29	34	37	162	2		
12148	270	89/09/27	2352:53	2353:18	460	1477	75288	7		M5
12149	271	89/09/28	0155:22	0155:36	31	38	153	2		
12150	271	89/09/28	0210:10	0210:46	47	51	306	2		
12151	271	89/09/28	0332:43	0333:12	154	349	3227	5	5712	
12152	271	89/09/28	0425:13	0425:38	53	62	434	3		
12153	271	89/09/28	0507:12	0507:29	28	35	111	3		
12154	271	89/09/28	0518:20	0519:03	119	43	828	2		
12155	271	89/09/28	0643:58	0645:02	76	58	755	3		
12156	271	89/09/28	0823:28	0823:46	28	54	143	2		
12617	271	89/09/28	0946:06	0949:02	282	48	1350	2		I ,DG
12618	271	89/09/28	1111:36	1111:46	21	54	234	2		I
12157	271	89/09/28	1246:23	1246:41	37	35	133	2		
12158	271	89/09/28	1341:23	1341:52	38	36	157	2		
12159	271	89/09/28	1344:16	1344:58	56	189	3346	6	5712	ES
12160	272	89/09/29	0053:39	0053:50	32	35	133	2		
12161	272	89/09/29	0108:06	0108:13	66	74	959	2		
12162	272	89/09/29	0240:35	0240:51	28	39	143	2		
12163	272	89/09/29	0517:10	0517:47	55	51	517	2		
12164	272	89/09/29	0520:46	0521:07	33	43	186	2		
12166	272	89/09/29	0959:44	1000:06	47	50	290	2		
12165	272	89/09/29	1133:13	1133:14	6800	65630	1.94E+07	15	5698	M5,EN,IN,SA,IS
12167	272	89/09/29	1512:44	1512:46	14	56	165	8		NS,GB
12619	272	89/09/29	2048:28	2049:20	231	300	11900	7		I
12620	273	89/09/30	0244:05	0249:14	1026	285	56500	4	5712	I
12621	273	89/09/30	0554:55	0556:34	383	94	4520	5		I
12622	273	89/09/30	0602:15	0607:39	619	150	16700	5	5716	I
12168	274	89/10/01	0006:52	0008:53	537	51	4674	2		
12623	275	89/10/02	0840:07	0840:19	42	43	209	2	5712	I ,DG
12624	277	89/10/04	2013:12	2013:22	54	38	324	2		I
12170	278	89/10/05	0326:54	0326:57	13	38	88	13		NS,GB
12169	278	89/10/05	1210:25	1210:58	39	46	177	2	5721	
12171	278	89/10/05	1339:12	1339:20	84	44	336	2	5716	
12172	279	89/10/06	1744:03	1744:30	73	47	309	2	5721	
12625	282	89/10/09	0154:48	0156:44	373	50	3290	2	5728	I
12626	282	89/10/09	0312:25	0312:49	110	58	946	3		I
12173	282	89/10/09	2331:55	2332:04	61	35	122	2	5714	
12174	283	89/10/10	0358:13	0400:38	192	47	1605	3	5725	
12175	283	89/10/10	0711:26	0712:44	124	48	470	2		
12176	283	89/10/10	0717:31	0719:52	291	39	1308	3		
12177	283	89/10/10	0820:02	0820:18	49	78	1137	2		SA
*12178	283	89/10/10	2029:16	2030:01	98	201	3413	4		
*12179	284	89/10/11	0119:28	0120:27	74	51	308	3		
*12627	284	89/10/11	0233:03	0233:08	45	133	1240	4	5725	I
*12180	284	89/10/11	0442:21	0443:25	194	79	4184	2		
*12181	284	89/10/11	2228:46	2229:48	127	275	7383	7		
*12182	284	89/10/11	2236:07	2238:11	155	66	1044	3		
*12183	285	89/10/12	0322:34	0322:46	63	62	678	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*12184	285	89/10/12	0928:57	0930:34	125	60	953	4		
*12185	285	89/10/12	0931:49	0932:20	82	69	1052	4	5736	
*12186	285	89/10/12	1854:15	1854:23	25	53	137	2	5740	
*12187	285	89/10/12	2325:08	2325:54	61	53	287	4		
*12188	286	89/10/13	0200:16	0200:30	91	45	471	3		
*12189	286	89/10/13	0352:23	0352:42	27	50	91	4		
*12190	286	89/10/13	0443:23	0525:04	3151	115		8		I ,SN,EN,ND
*12191	286	89/10/13	1356:10	1356:23	38	49	168	3		
*12192	286	89/10/13	1553:15	1554:22	111	113	2270	4	5744	
*12193	286	89/10/13	2334:52	2335:04	42	94	1028	6		
*12628	287	89/10/14	0412:21	0412:37	36	54	191	2		I
*12629	287	89/10/14	0509:11	0509:26	151	175	3480	6	5736	I
*12197	287	89/10/14	0658:39	0659:37	93	136	2228	4	5723	
*12198	287	89/10/14	0711:16	0711:21	14	77	221	4		
*12199	287	89/10/14	0714:20	0714:57	64	66	718	3		ND
*12200	287	89/10/14	0834:32	0837:26	498	867	34478	11	5740	
*12194	287	89/10/14	1108:37	1109:10	57	167	2547	5		
*12195	287	89/10/14	1111:03	1111:53	65	141	3846	5		M5,EG
*12196	287	89/10/14	1306:30	1307:35	91	104	1288	4		
*12201	287	89/10/14	1449:32	1450:34	97	67	3440	4		ND
*12202	287	89/10/14	1749:45	1750:36	263	2963	92243	15	5723	
*12203	287	89/10/14	1857:53	1858:45	108	44	589	4		
*12204	287	89/10/14	2110:42	2111:10	53	131	969	4	5740	
*12630	287	89/10/14	2231:31	2231:55	30	64	236	3	5723	M5,I
*12631	287	89/10/14	2239:31	2239:53	227	1778	69500	9	5747	I ,EN
*12205	288	89/10/15	0315:05	0315:46	56	112	780	4	5747	
*12206	288	89/10/15	0425:33	0425:37	17	124	410	4		
*12207	288	89/10/15	0713:38	0713:52	81	57	561	4		
*12208	288	89/10/15	1432:58	1433:02	130	42	383	4	5740	
*12209	289	89/10/16	0418:43	0419:33	83	140	2899	5	5736	
*12210	289	89/10/16	1501:37	1502:28	225	256	6844	4		
*12211	289	89/10/16	1509:24	1509:51	216	57	2630	2		
*12212	289	89/10/16	2239:28	2239:38	37	44	147	2		
*12213	289	89/10/16	2252:37	2253:11	113	84	2034	3		
*12214	289	89/10/16	2306:38	2306:46	17	46	134	2		
*12215	290	89/10/17	0041:26	0041:27	29	44	105	2	5728	
*12216	290	89/10/17	0201:31	0202:00	104	202	4243	5	5747	
*12217	290	89/10/17	0213:08	0213:14	38	44	159	2		
*12632	290	89/10/17	0519:21	0521:03	278	183	6720	3	5747	I
*12633	290	89/10/17	0923:09	0923:35	47	56	299	4		I
*12634	290	89/10/17	0938:00	0938:09	33	50	261	2		I
*12218	291	89/10/18	0805:08	0805:32	30	44	176	4	5740	
*12223	292	89/10/19	1017:55	1019:05	77	54	299	2		
*12224	292	89/10/19	1022:25	1022:58	38	50	254	2		
*12221	292	89/10/19	1154:49	1155:14	148	59	1081	3	5747	
*12222	292	89/10/19	1255:18	1258:43	18078	202600	1.42E+08	15	5747	M5,SN,IN,EG
*12225	292	89/10/19	1935:02	1935:23	25	51	165	3		
*12226	292	89/10/19	1938:24	1938:47	50	62	236	2		
*12227	292	89/10/19	2035:30	2035:42	25	49	106	2		
*12236	293	89/10/20	0612:27	0612:33	48	45	160	2		
*12237	293	89/10/20	0626:32	0626:52	42	45	117	3		
*12228	293	89/10/20	0729:48	0730:11	35	100	818	3	5747	
*12229	293	89/10/20	0740:58	0741:47	132	59	1183	3		
*12230	293	89/10/20	0751:20	0752:38	265	1544	46488	8	5747	DG,FS
*12231	293	89/10/20	0756:58	0757:38	50	60	469	3		
*12232	293	89/10/20	0759:56	0800:13	24	54	137	3		
*12233	293	89/10/20	0912:40	0912:48	31	56	255	3	5747	
*12234	293	89/10/20	1015:21	1015:45	137	84	1653	3		
*12235	293	89/10/20	1055:43	1056:02	49	61	288	4		
*12238	293	89/10/20	1508:26	1509:27	573	8122	2.55E+05	15		M5,SN
*12239	293	89/10/20	1520:45	1526:14	644	47	1700	2	5747	
*12240	293	89/10/20	1630:25	1631:42	176	57	1195	2	5755	
*12241	293	89/10/20	1641:30	1641:47	36	45	149	2		ND
*12242	293	89/10/20	1649:53	1650:39	191	124	3959	3		
*12243	293	89/10/20	1934:10	1934:19	52	51	324	4	5754	
*12244	293	89/10/20	2055:30	2055:43	76	95	1885	4		
*12245	293	89/10/20	2127:00	2131:28	926	448	57964	4	5747	M5,ES
*12246	293	89/10/20	2230:22	2230:36	29	41	156	4		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*12247	293	89/10/20	2315:13	2315:23	61	186	1495	5	5754	
*12248	294	89/10/21	0039:44	0040:05	50	115	1305	4		
*12249	294	89/10/21	0152:03	0154:37	469	3833	2.40E+05	14	5747	M5,FS
*12635	294	89/10/21	0458:08	0458:21	30	49	375	2		I ,ND
*12636	294	89/10/21	0513:06	0513:26	40	50	560	2		I ,ND
*12637	294	89/10/21	0516:23	0516:46	78	50	1092	3	5753	I ,ND
*12250	294	89/10/21	1125:00	1126:01	129	68	1391	5	5747	
*12638	294	89/10/21	1954:31	1954:47	50	87	930	3		I
*12639	294	89/10/21	1956:51	1957:16	67	66	1050	3		I
*12640	294	89/10/21	1959:33	1959:54	34	57	291	3		I
*12641	294	89/10/21	2001:42	2003:43	177	107	4620	3		I
*12251	294	89/10/21	2142:23	2142:37	33	54	400	3	5758	
*12252	294	89/10/21	2153:51	2154:59	166	283	10787	9	5747	
*12253	294	89/10/21	2159:58	2201:37	164	207	8969	5		M5,ES
*12254	294	89/10/21	2308:30	2308:40	20	60	204	3		
*12255	295	89/10/22	0059:15	0100:52	510	407	25607	8	5754	M5
*12256	295	89/10/22	0218:38	0219:30	123	209	7566	4	5747	
*12257	295	89/10/22	1056:07	1056:35	72	41	339	2		SN
*12258	295	89/10/22	1117:06	1118:41	1466	2995	1.99E+05	9	5747	M5
*12259	295	89/10/22	1145:40	1146:23	108	80	1031	4	5750	
*12260	295	89/10/22	1241:55	1243:39	265	60	2593	6	5747	EG
*12261	295	89/10/22	1308:30	1310:33	553	134	6206	6	5754	DG
*12262	295	89/10/22	1415:12	1416:06	85	63	386	4	5754	
*12263	295	89/10/22	1432:05	1432:27	44	51	352	4	5754	
*12264	295	89/10/22	1441:00	1442:04	94	47	389	4		
*12265	295	89/10/22	1723:27	1725:20	467	69	16714	4	5747	SG,EG,ND
*12266	295	89/10/22	2040:54	2041:24	61	57	199	2		
*12267	295	89/10/22	2322:32	2322:39	93	84	29748	3	5750	ND
*12268	295	89/10/22	2335:41	2335:52	26	53	149	2	5747	
*12269	296	89/10/23	0054:29	0054:53	80	45	288	2	5750	
*12270	296	89/10/23	0101:19	0102:04	89	49	576	4	5750	
*12271	296	89/10/23	0245:29	0246:00	39	44	240	2		
*12272	296	89/10/23	0410:14	0412:47	467	310	20061	4	5747	SG,EG,DG
*12642	296	89/10/23	1115:24	1117:28	146	50	488	2	5747	I
*12643	296	89/10/23	1246:14	1246:34	1446	715	4585	4	5747	I ,SN,ND
*12273	296	89/10/23	1453:05	1453:35	56	51	354	3	5747	
*12280	296	89/10/23	2214:05	2215:44	127	102	2166	3	5747	
*12644	296	89/10/23	2335:27	2336:32	212	250	15200	4	5747	I
*12645	297	89/10/24	0056:00	0056:06	56	67	644	3		I
*12646	297	89/10/24	0115:08	0116:05	94	56	764	2	5747	I
*12647	297	89/10/24	0118:14	0118:33	44	47	172	2	5747	I
*12648	297	89/10/24	0120:02	0120:26	34	54	222	2	5747	I
*12649	297	89/10/24	0123:06	0124:02	90	51	466	3	5747	I
*12650	297	89/10/24	0128:59	0130:07	86	46	457	3	5747	I
*12274	297	89/10/24	0255:06	0255:21	33	41	118	2		
*12275	297	89/10/24	0259:07	0259:28	94	49	485	2	5747	ND
*12276	297	89/10/24	0423:42	0423:57	29	59	293	3		
*12277	297	89/10/24	0427:13	0427:22	138	139	1785	4	5748	
*12278	297	89/10/24	0434:05	0434:14	13	47	68	2		
*12279	297	89/10/24	0540:24	0541:18	120	135	1999	5		
*12281	297	89/10/24	1317:43	1317:55	25	44	71	2		
*12282	297	89/10/24	1327:11	1327:19	21	74	390	3		
*12283	297	89/10/24	1335:07	1335:27	99	55	612	2		EG
*12284	297	89/10/24	1349:53	1350:04	21	48	138	2		
*12285	297	89/10/24	1353:28	1354:10	402	62	3380	3		
*12286	297	89/10/24	1521:01	1522:07	327	54	1654	3		
*12287	297	89/10/24	1759:51	1810:24	6603	72444	6.95E+07	15	5747	M5,IN,ES,IS,SG DG
*12288	298	89/10/25	1535:38	1541:58	671	68	3834	9		SG
*12289	298	89/10/25	1632:28	1636:46	3062	42430	3.29E+06	15	5747	IS,DG,ND
*12651	298	89/10/25	1826:04	1827:03	243	58	1900	2		I
*12290	298	89/10/25	2145:48	2145:56	13	96	382	4		IS
*12291	298	89/10/25	2254:52	2255:04	25	129	456	5		
*12293	299	89/10/26	0047:35	0047:39	11	58	96	2		
*12292	299	89/10/26	0053:07	0053:37	95	319	4574	6		
*12294	299	89/10/26	0910:16	0911:07	73	51	507	2		
*12295	299	89/10/26	1112:59	1113:12	25	43	95	2		
*12296	299	89/10/26	1231:33	1231:48	91	194	1374	5	5747	

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*12297	299	89/10/26	1235:03	1235:33	40	54	324	2	5747	
*12298	299	89/10/26	1423:19	1423:43	63	148	1690	6		
*12299	299	89/10/26	1434:19	1435:16	81	70	1077	3		
*12300	299	89/10/26	1520:04	1520:26	68	45	298	2		
*12301	299	89/10/26	1529:50	1530:09	33	102	459	5	5747	
*12302	299	89/10/26	1530:49	1530:51	9	62	138	2	5747	
*12303	299	89/10/26	2006:38	2006:48	14	53	104	2		
*12304	299	89/10/26	2304:34	2304:40	13	51	67	2		
*12305	299	89/10/26	2318:22	2325:26	1172	248	1.14E+05	7	5748	M5,EG
*12306	300	89/10/27	0046:37	0046:45	22	50	204	3		
*12307	300	89/10/27	0217:28	0217:37	18	38	59	2		
*12308	300	89/10/27	0219:57	0220:42	107	44	459	3		
*12309	300	89/10/27	0222:36	0223:12	58	43	248	2		
*12653	300	89/10/27	0508:22	0508:39	29	43	133	2		I
*12654	300	89/10/27	0541:52	0543:05	194	56	1010	2		I
*12310	300	89/10/27	1129:59	1131:01	1287	13200	1.32E+06	15	5747	EN
*12655	300	89/10/27	1234:15	1237:08	482	84	8070	3		I
*12311	300	89/10/27	1858:06	1901:15	863	44537	5.68E+06	15	5747	I ,ES
*12657	301	89/10/28	0409:10	0422:46	1376	56	5750	3		I ,EN,DG
*12312	301	89/10/28	0508:33	0514:54	8717	493	4.45E+05	7		M5,I ,SN,EN,IN DG
*12313	301	89/10/28	0824:12	0829:22	531	81	6246	3		
*12656	301	89/10/28	1021:56	1022:30	99	48	403	2		I
*12314	302	89/10/29	2206:27	2207:13	615	60	1882	2	5769	SN
*12316	304	89/10/31	0746:35	0747:25	112	72	1226	3		
*12317	304	89/10/31	0813:21	0813:47	46	55	267	2		
*12318	304	89/10/31	1100:07	1100:12	15	49	69	2		
*12319	304	89/10/31	1121:06	1121:13	63	55	361	2		
*12321	304	89/10/31	1633:26	1635:38	544	62	3699	3		SN
*12322	305	89/11/01	0309:45	0310:04	95	94	2140	4		
*12323	305	89/11/01	0620:21	0621:25	181	65	1723	3		
*12324	305	89/11/01	2124:08	2124:25	54	54	504	3	5776	ND
*12325	305	89/11/01	2135:24	2135:26	51	47	188	2		
*12326	306	89/11/02	0223:34	0223:45	35	52	209	3		
*12327	306	89/11/02	0332:45	0334:07	112	63	979	2	5769	
*12328	306	89/11/02	0406:30	0408:25	679	64	4089	3		EN,SG,DG,ND
*12329	306	89/11/02	0809:05	0809:32	46	91	1110	3		
*12330	306	89/11/02	1015:44	1016:24	77	2499	19959	11		M5
*12331	306	89/11/02	1019:31	1019:42	23	57	214	3		
*12332	306	89/11/02	1110:15	1111:05	74	48	324	2		
*12333	306	89/11/02	1114:34	1114:38	18	55	173	2		
*12334	306	89/11/02	1247:18	1253:35	1376	194	38176	6	5776	DG,ND
*12335	306	89/11/02	1726:05	1726:17	26	65	233	3	5776	
*12336	306	89/11/02	1850:31	1850:59	58	47	282	3		
*12337	306	89/11/02	2152:52	2153:06	25	93	502	4		
*12338	306	89/11/02	2335:05	2335:31	76	197	2605	7		
*12339	307	89/11/03	0349:27	0350:17	204	192	9657	7	5776	
*12340	307	89/11/03	0549:25	0549:40	43	52	145	2		
*12341	307	89/11/03	0641:23	0645:49	645	1437	73667	10		M5
*12342	307	89/11/03	0716:41	0719:11	239	162	4250	5		
*12343	307	89/11/03	0729:44	0730:53	106	51	191	2		DG
*12658	307	89/11/03	1030:22	1030:38	76	78	803	3		I
*12659	307	89/11/03	1034:11	1034:42	46	204	2840	7	5776	I
*12344	307	89/11/03	1549:19	1550:41	132	158	3220	5	5776	
*12345	307	89/11/03	1602:48	1603:02	50	138	1186	5		
*12346	307	89/11/03	1605:14	1605:32	107	80	1384	5	5769	
*12347	308	89/11/04	0958:24	0958:35	75	44	368	2		
*12348	308	89/11/04	1038:01	1041:19	330	158	3413	4	5769	
*12350	308	89/11/04	1331:26	1331:59	60	217	3024	5		IS
*12349	308	89/11/04	1430:36	1431:29	87	44	270	3	5769	
*12351	308	89/11/04	2105:28	2105:42	35	86	532	3	5769	
*12352	309	89/11/05	0242:02	0242:15	44	62	663	4		
*12353	309	89/11/05	0550:44	0552:42	197	64	1413	3	5763	
*12354	309	89/11/05	0623:05	0623:13	23	48	163	2		
*12355	309	89/11/05	0718:13	0723:09	613	335	37160	6	5769	DG
*12356	309	89/11/05	1213:17	1213:34	58	225	1658	6		FS
*12357	309	89/11/05	1943:23	1943:53	68	47	199	2		
*12358	309	89/11/05	2002:01	2002:39	64	74	1109	3		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*12359	309	89/11/05	2004:12	2004:54	53	173	2570	4	5776	
*12360	309	89/11/05	2213:22	2213:38	94	225	3205	3	5776	
*12361	310	89/11/06	0419:05	0419:18	18	165	543	5		
*12362	310	89/11/06	0421:00	0421:23	39	59	371	3		
*12363	310	89/11/06	0734:49	0734:59	13	56	97	2		
*12364	310	89/11/06	0858:46	0859:13	49	70	405	3	5783	
*12660	310	89/11/06	0906:00	0906:06	20	48	115	2		I
*12365	310	89/11/06	0911:49	0913:22	214	196	5551	4		
*12366	310	89/11/06	0917:17	0917:44	317	571	21017	8	5776	
*12368	310	89/11/06	1050:56	1051:10	22	50	143	2		
*12369	310	89/11/06	1108:07	1108:17	22	39	75	2		
*12370	310	89/11/06	1206:27	1210:06	1871	4461	5.19E+05	11	5776	IS,SG,ND
*12367	310	89/11/06	1335:30	1341:16	520	4028	5.55E+05	10	5776	I ,SA,ES,IS,DG
*12371	310	89/11/06	1837:36	1843:54	503	1323	92090	6	5776	M5,SA
*12372	310	89/11/06	2053:58	2054:44	538	74	4782	2	5776	SN
*12373	310	89/11/06	2256:47	2257:53	103	66	1081	2	5783	
*12374	311	89/11/07	0128:02	0128:21	86	57	414	4		
*12375	311	89/11/07	0139:03	0139:37	98	121	3512	4		
*12376	311	89/11/07	0256:47	0256:57	27	41	77	3	5783	
*12377	311	89/11/07	0300:41	0301:03	50	93	1304	5		
*12378	311	89/11/07	0302:10	0302:31	37	69	391	5		
*12379	311	89/11/07	0314:57	0319:40	1219	5301	4.10E+05	15	5776	M5
*12380	311	89/11/07	0337:27	0337:42	29	49	188	2		
*12381	311	89/11/07	0338:59	0339:27	39	63	436	3		
*12382	311	89/11/07	0905:04	0905:14	21	57	230	3		M5
*12383	311	89/11/07	0928:58	0929:13	37	162	1329	5		
*12408	311	89/11/07	1047:47	1048:22	94	141	1791	3		ES
*12409	311	89/11/07	1248:35	1248:54	69	54	562	2	5770	
*12384	311	89/11/07	1339:17	1339:42	29	47	134	2		
*12385	311	89/11/07	1512:50	1513:10	41	57	572	3	5777	
*12386	311	89/11/07	1514:03	1514:31	38	73	498	3		
*12387	311	89/11/07	1552:42	1553:08	58	82	1096	4		
*12388	311	89/11/07	1641:34	1656:09	1285	99	11651	5	5783	ES,DG,ND
*12389	311	89/11/07	1811:27	1811:41	27	209	922	5		
*12390	311	89/11/07	1813:21	1813:38	38	52	216	4		
*12391	311	89/11/07	1838:11	1838:34	43	144	1001	3		SG
*12392	311	89/11/07	1839:58	1840:14	48	144	1418	3	5786	
*12393	311	89/11/07	1855:12	1856:25	89	43	480	2		
*12394	311	89/11/07	1934:21	1945:06	2200	95	12916	4	5786	M5,SN,EG
*12395	311	89/11/07	2013:55	2019:05	844	75	6393	3	5776	EN,SG
*12396	311	89/11/07	2104:58	2115:41	1056	56	5235	2	5786	SN,ND
*12397	311	89/11/07	2244:37	2245:01	44	45	272	2		
*12398	311	89/11/07	2300:07	2300:44	53	108	893	4	5769	
*12399	311	89/11/07	2316:01	2316:35	74	80	1216	3	5776	
*12400	312	89/11/08	0043:42	0043:48	11	82	130	4		
*12401	312	89/11/08	0052:34	0052:45	14	86	152	2		
*12402	312	89/11/08	0228:49	0229:02	61	104	1280	5	5783	
*12403	312	89/11/08	0325:50	0327:26	373	71	3740	3	5783	
*12404	312	89/11/08	0517:16	0518:35	195	92	3893	4	5783	M5,ND
*12405	312	89/11/08	0608:46	0610:56	222	49	699	4	5776	SN
*12406	312	89/11/08	0632:45	0634:22	302	62	1627	4		
*12407	312	89/11/08	0644:43	0649:33	646	177	21302	3	5783	
*12410	312	89/11/08	0744:06	0744:34	921	60	3696	3		M5,DG,ND
*12411	312	89/11/08	0821:21	0821:28	59	47	183	2		
*12412	312	89/11/08	0912:05	0913:02	274	75	77	4		
*12414	312	89/11/08	1002:47	1002:50	20	65	259	2		
*12413	312	89/11/08	1121:12	1121:34	38	55	238	3		
*12415	312	89/11/08	1725:20	1726:19	662	116	12933	3	5786	SA
*12416	312	89/11/08	1817:28	1900:16	2986	2744	6.00E+05	15	5769	M5,SN,EN,IS,DG
*12417	312	89/11/08	2020:31	2020:47	60	46	294	3	5769	EG
*12418	312	89/11/08	2259:21	2259:42	38	297	1269	7		
*12419	312	89/11/08	2311:35	2311:42	16	54	133	5	5783	
*12420	312	89/11/08	2316:09	2316:32	54	196	1931	8		
*12421	312	89/11/08	2317:30	2324:57	893	149	10404	7	5786	
*12422	313	89/11/09	0034:27	0034:40	52	81	668	3		
*12423	313	89/11/09	0043:50	0047:40	488	54	2653	2		ND
*12424	313	89/11/09	0317:45	0318:44	112	43	304	2		SN
*12425	313	89/11/09	0324:11	0324:35	32	47	178	4		

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*12426	313	89/11/09	0336:18	0336:36	36	52	233	2	5783	
*12437	313	89/11/09	0339:52	0340:50	108	104	1656	6	5783	
*12438	313	89/11/09	0353:35	0353:49	24	255	1181	5	5781	M5,FS
*12427	313	89/11/09	0449:54	0450:13	33	290	1176	4	5776	M5,FS
*12428	313	89/11/09	0450:43	0450:52	23	75	361	3		M5
*12429	313	89/11/09	0520:40	0521:37	135	417	6307	6	5786	
*12430	313	89/11/09	0619:01	0620:26	115	56	115	2	5783	SN
*12431	313	89/11/09	0630:27	0630:33	37	45	119	2		
*12432	313	89/11/09	0646:37	0647:00	37	52	142	2		
*12433	313	89/11/09	0653:53	0654:04	18	49	102	2		
*12434	313	89/11/09	0709:09	0709:47	50	42	160	2		
*12435	313	89/11/09	0819:22	0821:40	431	10830	1.47E+05	15	5786	M5,FS
*12444	313	89/11/09	0930:18	0930:57	87	132	3184	3	5783	
*12445	313	89/11/09	0932:28	0936:24	933	1972	72246	15	5786	DG
*12436	313	89/11/09	1002:09	1003:02	66	74	699	4		
*12443	313	89/11/09	1227:19	1238:02	661	161	13589	6	5770	ES,IS,DG
*12439	313	89/11/09	1307:44	1307:50	26	49	167	2		
*12440	313	89/11/09	1309:45	1311:50	193	80	1671	3		
*12441	313	89/11/09	1359:43	1400:22	86	63	621	3		
*12442	313	89/11/09	1403:26	1404:08	150	114	4547	3	5783	
*12449	313	89/11/09	1553:40	1554:15	1099	789	50796	4	5783	M5,SA,IS
*12446	313	89/11/09	1700:30	1702:36	164	155	9101	3	5783	
*12447	313	89/11/09	1713:14	1713:42	80	207	2114	6		FS
*12448	313	89/11/09	1742:29	1742:45	116	137	1922	4	5783	
*12450	313	89/11/09	1840:14	1840:25	23	60	182	3		
*12451	313	89/11/09	1847:52	1852:35	1389	113	4041	6	5786	IS,DG
*12452	313	89/11/09	1953:43	1956:25	1054	80	14405	5	5776	SN
*12453	313	89/11/09	2015:09	2015:19	16	88	286	4		
*12454	313	89/11/09	2017:43	2017:59	30	49	186	3		
*12455	313	89/11/09	2134:44	2137:06	533	199	16461	6	5776	
*12456	313	89/11/09	2144:58	2146:31	172	145	2975	5	5783	
*12457	313	89/11/09	2149:49	2150:51	189	59	1234	4		
*12458	313	89/11/09	2325:22	2325:26	15	49	123	3		
*12459	313	89/11/09	2329:35	2330:39	416	174	12706	4		
*12460	313	89/11/09	2347:38	2347:43	12	43	74	2		
*12461	314	89/11/10	0030:17	0030:55	87	61	796	4		
*12462	314	89/11/10	0049:34	0050:34	115	850	12212	8	5786	
*12463	314	89/11/10	0155:56	0156:17	484	131	10112	4	5783	SN
*12464	314	89/11/10	0216:19	0216:56	210	694	12836	9	5786	
*12465	314	89/11/10	0230:18	0230:23	14	157	335	6		
*12466	314	89/11/10	0237:02	0237:53	108	167	2761	7		
*12467	314	89/11/10	0339:21	0340:32	302	509	26893	6	5783	M5
*12468	314	89/11/10	0503:40	0504:02	61	56	298	3		
*12469	314	89/11/10	0531:38	0531:46	21	75	224	3		
*12470	314	89/11/10	0632:47	0637:47	355	81	1825	5	5783	DG
*12478	314	89/11/10	0810:12	0810:52	138	83	2040	4	5783	IS
*12479	314	89/11/10	0814:30	0814:36	19	77	157	5		
*12482	314	89/11/10	0830:10	0832:12	160	48	632	4	5788	
*12483	314	89/11/10	0841:25	0841:33	44	44	163	3	5788	
*12484	314	89/11/10	0843:00	0843:16	38	56	224	3	5788	
*12476	314	89/11/10	1127:32	1127:59	271	630	21038	6	5783	SA
*12477	314	89/11/10	1136:00	1139:06	270	259	10188	5		
*12471	314	89/11/10	1230:57	1231:26	58	46	263	2		
*12472	314	89/11/10	1234:00	1234:37	72	83	941	3		
*12473	314	89/11/10	1236:35	1236:42	20	53	136	2		
*12474	314	89/11/10	1255:14	1255:43	1036	223	34164	4	5783	SA,IS
*12475	314	89/11/10	1322:15	1322:23	35	50	202	2		
*12480	314	89/11/10	1613:35	1614:04	60	65	510	2		SA
*12481	314	89/11/10	1701:11	1702:21	422	63	3848	2	5788	SN
*12485	314	89/11/10	2143:15	2144:23	74	63	249	2		
*12486	314	89/11/10	2158:41	2158:59	56	80	817	3	5786	
*12487	315	89/11/11	0053:43	0053:57	38	68	507	3		
*12488	315	89/11/11	0505:09	0505:43	610	222	21499	5	5783	M5,SN
*12489	315	89/11/11	0526:32	0526:44	76	58	591	2		
*12490	315	89/11/11	0711:06	0711:14	129	80	1374	4	5783	
*12491	315	89/11/11	0855:57	0858:01	192	274	9276	9		
*12492	315	89/11/11	1900:29	1900:32	24	56	195	3		
*12493	316	89/11/12	0557:18	0600:43	480	9913	1.26E+06	15	5783	EN

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
*12494	316	89/11/12	1715:48	1716:05	130	43	839	2		
*12495	316	89/11/12	2018:08	2018:19	27	51	250	3		
*12496	317	89/11/13	0348:58	0349:06	34	72	495	3	5781	
*12497	317	89/11/13	0843:05	0843:18	58	90	582	3	5783	
*12498	317	89/11/13	0845:07	0845:28	39	69	515	3		
*12499	317	89/11/13	1202:49	1202:58	27	62	297	2		
*12500	317	89/11/13	1420:34	1420:56	63	104	2057	3		
*12501	317	89/11/13	2206:21	2206:44	116	407	5529	4	5783	
*12502	318	89/11/14	1126:55	1127:04	33	109	679	4	5786	
*12503	318	89/11/14	1134:12	1135:15	89	57	1084	3		
*12504	318	89/11/14	1156:03	1156:24	57	64	657	3		
*12505	318	89/11/14	1433:31	1434:14	139	292	7761	5	5786	
*12506	318	89/11/14	2209:08	2211:32	213	77	3020	2	5783	EG
*12507	319	89/11/15	0112:07	0112:46	254	165	6607	4	5783	
*12508	319	89/11/15	0357:24	0357:50	180	67	1467	4	5788	SN
*12509	319	89/11/15	0410:11	0410:41	148	91	3757	7		
*12510	319	89/11/15	0527:24	0534:48	1694	181	60213	4	5783	IS
*12511	319	89/11/15	0657:06	0658:01	3211	23000	5.13E+06	15	5786	SN,EN,IS
*12661	319	89/11/15	1036:16	1036:52	124	157	3120	4	5783	I
*12512	319	89/11/15	1644:49	1645:21	38	46	165	2	5783	
*12513	319	89/11/15	1917:36	1934:04	2060	52700	7.35E+06	15		EN,DG
*12514	319	89/11/15	2032:12	2036:36	1460	79	20579	5	5786	M5,ND
*12515	319	89/11/15	2206:34	2207:05	45	80	585	3		
*12516	319	89/11/15	2249:51	2249:59	25	69	247	3		
*12662	320	89/11/16	0127:44	0128:17	50	63	825	2		I ,ND
*12663	320	89/11/16	0412:27	0414:29	714	1358	3.46E+05	7		I ,DG,ND
*12664	320	89/11/16	0451:30	0452:07	63	58	976	2		I ,ND
*12517	320	89/11/16	0724:17	0724:29	23	43	74	2		IS
*12518	320	89/11/16	0908:41	0908:51	16	60	136	2		
*12666	320	89/11/16	1036:50	1037:27	74	51	616	2	5786	I
*12519	320	89/11/16	1316:54	1319:36	2171	6119	1.39E+06	13	5786	M5,I ,EN,SA,IS DG
*12520	320	89/11/16	2055:32	2055:50	26	48	161	2		
*12521	320	89/11/16	2208:16	2208:34	25	50	148	2		
*12522	320	89/11/16	2222:20	2223:06	87	137	3316	4		
*12523	320	89/11/16	2233:50	2236:46	575	1141	44005	6		M5
*12524	320	89/11/16	2251:14	2251:41	31	56	196	2		
*12525	321	89/11/17	0915:25	0916:40	167	113	2661	4	5786	M5
*12526	322	89/11/18	0146:45	0147:35	76	699	11426	10	5786	
*12665	322	89/11/18	0726:53	0727:14	50	49	275	2		I
*12527	322	89/11/18	1044:16	1046:58	291	45	1266	4		
*12528	322	89/11/18	2205:02	2205:08	28	59	249	4		
*12529	322	89/11/18	2338:55	2339:26	308	65	1865	3	5793	
*12667	323	89/11/19	0435:29	0436:43	151	55	896	3		I
*12668	323	89/11/19	0443:46	0444:41	71	51	376	3		I
*12669	323	89/11/19	0617:40	0621:40	327	24352	8.08E+05	15	5793	M5,I
*12533	323	89/11/19	0854:47	0855:01	130	55	979	3		
*12534	323	89/11/19	0905:10	0905:30	167	58	693	3	5793	
*12530	323	89/11/19	1043:08	1043:26	99	69	902	3		
*12531	323	89/11/19	1048:49	1050:58	158	97	2456	3		
*12532	323	89/11/19	1130:06	1130:22	494	204	20575	8	5793	SN,EG
*12535	323	89/11/19	2112:07	2112:29	27	47	138	2		
*12536	323	89/11/19	2117:38	2118:06	55	49	303	2		
*12537	323	89/11/19	2236:18	2236:25	26	50	136	2		
*12538	323	89/11/19	2331:48	2333:15	109	54	564	3		
*12670	324	89/11/20	0234:12	0234:29	67	73	696	2		I
*12671	324	89/11/20	0244:27	0244:36	26	58	118	2		I
*12539	324	89/11/20	0527:40	0531:01	1019	599	1.03E+05	5		SN,IS
*12540	324	89/11/20	0608:34	0608:54	29	58	251	2		
*12541	324	89/11/20	2032:51	2033:53	140	357	11400	4		
*12542	325	89/11/21	2203:42	2204:01	94	62	561	3		
*12543	325	89/11/21	2347:51	2348:03	48	48	234	2		

Appendix A. Events with Peak Rate > 10,000 Counts s^{-1}

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
87	89	80/03/29	0917:00	0918:13	210	19000	2.50E+05	15	2363	M ,FS
295	106	80/04/15	1508:00	1510:25	700	19000	9.50E+05	11	2389	M
375	119	80/04/28	2039:35	2040:00	254	10964	1.17E+05	15	2396	DG,FS
479	130	80/05/09	0711:05	0712:35	635	10800	6.94E+05	15	2418	M ,FS
538	142	80/05/21	2053:35	2055:53	2376	14300	3.01E+06	15	2456	M ,ES
634	156	80/06/04	0653:56	0654:37	279	35200	1.37E+06	15	2490	FS
688	159	80/06/07	0310:51	0312:15	691	39391	1.33E+06	15	2495	M
762	173	80/06/21	0112:40	0118:40	1352	141391	4.14E+06	15	2502	
877	183	80/07/01	1624:59	1627:29	831	27235	2.60E+06	15	2544	M ,FS
1022	203	80/07/21	0253:43	0256:13	612	12443	7.99E+05	15	2562	M
1210	248	80/09/04	0155:05	0201:20	795	12860	1.11E+06	10	2645	
1311	283	80/10/09	1123:25	1124:55	1440	26608	1.83E+06	5	2726	
1374	288	80/10/14	0557:50	0608:55	2110	39583	1.49E+07	15	2725	M
1472	299	80/10/25	0955:55	0956:20	695	13257	1.95E+05	5	2751	M ,SN,ES
1534	310	80/11/05	2232:10	2233:05	350	12730	4.61E+05	10	2776	FS
1543	311	80/11/06	0324:10	0348:00	7395	155347	7.39E+07	15	2779	EN,IN,IS
1563	312	80/11/07	0200:09	0204:55	661	86574	1.56E+07	15	2776	M ,EN
1661	317	80/11/12	0445:50	0452:00	1045	50219	4.17E+06	15	2776	M ,EN
1702	320	80/11/15	1516:15	1543:30	2860	12939	5.65E+06	10	2779	M
1943	25	81/01/25	0744:15	0747:00	551	31930	2.35E+06	10		M
1968	28	81/01/28	0409:35	0413:20	1101	10450	1.08E+06	12	2911	M
5844	51	81/02/20	0639:03	0645:51	2036	25356	5.90E+06	9	2941	M ,I
2137	55	81/02/24	1932:45	1936:35	607	19518	3.43E+06	15	2958	M ,EN
2153	57	81/02/26	1423:10	1425:55	497	22521	9.58E+05	15	2958	M
2293	91	81/04/01	0105:40	0146:04	3140	12460	7.20E+06	14	2999	EN
2299	92	81/04/02	1059:05	1106:40	985	14865	2.55E+06	12	2999	M
2373	100	81/04/10	1633:40	1651:15	1360	11879	3.63E+06	15	3025	M
2520	114	81/04/24	0135:50	0143:15	3342	11690	4.46E+06	5	3049	M ,SN
2589	117	81/04/27	0740:55	0812:55	9052	56177	4.85E+07	15		M
2604	124	81/05/04	0836:40	0838:45	711	19517	1.17E+06	14	3080	M
2907	200	81/07/19	0506:20	0533:50	3255	34086	1.23E+07	14	3204	M ,EN,SA
3030	207	81/07/26	1347:35	1352:25	668	56177	8.12E+06	15	3234	M
3074	209	81/07/28	2009:00	2010:00	598	11321	4.95E+05	9	3234	M
3193	222	81/08/10	0657:05	0658:55	579	12265	4.59E+05	10	3257	FS
3211	224	81/08/12	0628:50	0629:15	1498	19518	2.01E+06	5	3257	M ,SN
3476	250	81/09/07	0509:10	0511:40	984	25878	1.39E+06	14	3317	
3520	253	81/09/10	0935:35	0940:45	610	28539	1.42E+06	11	3317	EN
* 3584	258	81/09/15	2110:15	2114:40	931	28212	3.10E+06	15	3317	EN,FS
3659	280	81/10/07	2241:35	2301:35	6830	33669	1.05E+07	15	3390	M ,ES,DG
3685	283	81/10/10	1247:30	1248:35	516	11434	3.10E+05	7	3390	M ,FS
3726	285	81/10/12	1034:30	1100:00	1896	12464	2.85E+06	5	3390	M ,EN,SA,FS
3794	287	81/10/14	1703:20	1706:30	232	44179	3.34E+06	15	3406	EN
6570	316	81/11/12	1555:58	1601:46	1382	22520	1.92E+06	11	3451	M ,I ,SN,ES,FS
4592	39	82/02/08	1249:55	1250:00	1224	31095	1.96E+06	15	3576	M ,SN,SG
4965	89	82/03/30	0521:10	0537:14	1326	18903	6.47E+06	15	3659	SN
* 5157	154	82/06/03	1140:32	1143:31	1449	213791	4.50E+07	15	3763	EN
* 5189	156	82/06/05	0124:26	0128:54	1141	18017	1.04E+06	12	3763	M1,DG,FS
* 5192	156	82/06/05	0613:31	0616:07	2120	20434	3.02E+06	12	3763	M1,EN
* 5199	156	82/06/05	1519:25	1529:18	1520	10152	1.39E+06	5	3763	M1
* 5220	157	82/06/06	1638:57	1639:22	3539	60593	1.40E+07	9	3763	M1,SN,EN
* 5344	166	82/06/15	0030:10	0030:40	1014	25304	8.50E+05	15	3763	M5,FS
6577	166	82/06/15	1017:42	1020:24	4383	33320	7.63E+06	11	3776	M5,I ,IN,DG,FS
* 5356	166	82/06/15	1508:18	1512:39	621	20609	1.81E+06	15	3780	
* 5375	168	82/06/17	1048:19	1051:20	621	13904	1.02E+06	10	3776	M5,FS
* 5414	171	82/06/20	0112:55	0113:32	411	13670	1.48E+05	10	3776	M5,FS
7533	172	82/06/21	2246:02	2303:17	1286	20700	2.54E+06	8		M5,I ,ES
6750	190	82/07/09	0724:58	0737:20	6677	155330	3.93E+07	15	3804	M5,I ,EN,IN,FS
5490	190	82/07/09	2105:38	2107:01	529	57078	1.19E+06	15	3804	M5
5580	193	82/07/12	0932:36	0945:57	7741	58007	4.10E+07	13	3804	M5,EN,SA
5643	198	82/07/17	0202:13	0205:51	1189	21000	1.84E+06	9	3804	
6017	330	82/11/26	0217:52	0233:22	18188	22747	4.86E+06	15	3994	M5,I ,IN,DG
6060	341	82/12/07	2335:30	2352:41	3539	23654	1.80E+07	15	4007	M5,SN,EN
6116	347	82/12/13	0320:52	0325:43	1602	12464	1.64E+06	15	4026	M5
6124	349	82/12/15	1626:19	1632:40	1465	81391	1.32E+07	13	4026	
6146	351	82/12/17	1854:40	1857:10	4059	108043	1.51E+07	15	4025	M5,SN,EN,DG
6152	352	82/12/18	0817:31	0822:02	1241	19095	1.56E+06	10	4026	M5,ND
6741	363	82/12/29	0643:00	0645:12	757	38120	7.49E+06	15	4033	I
6270	34	83/02/03	0550:25	0603:37	7389	46354	1.51E+07	15	4077	M5,IN,SA,IS,DG

	HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
	6466	127	83/05/07	2215:32	2218:26	209	118044	5.36E+06	15	4171	M5,ES,FS
	6480	129	83/05/09	2303:43	2305:36	502	20478	2.71E+06	15	4171	M5,FS
	6491	132	83/05/12	0252:03	0255:02	1005	11608	8.48E+05	15	4171	M5
*	6955	115	84/04/24	2352:13	0001:07	13287	231300	1.49E+08	15	4474	M5,EN,IN
	7056	126	84/05/05	1808:24	1814:43	1780	17630	6.61E+06	15	4474	M ,EN,FS
	7306	131	84/05/10	1720:40	1722:22	1108	13460	1.07E+06	15	4481	I
	7177	140	84/05/19	2150:17	2152:25	1720	193700	3.50E+07	15	4492	M
	7208	141	84/05/20	2153:01	2153:37	200	14690	1.91E+05	15	4492	M ,FS
	7211	142	84/05/21	0219:19	0219:43	1102	23650	1.86E+06	7	4492	SG,EG,DG,ND
	7543	20	85/01/20	2045:27	2045:51	1509	13040	9.27E+05	10	4617	M
	7554	21	85/01/21	2352:28	0001:32	6222	133000	4.83E+07	15	4617	M ,IN,IS,DG
	7725	114	85/04/24	0926:39	0929:35	3736	18610	7.76E+06	15	4647	M ,SN,EN
	8147	35	86/02/04	0733:09	0737:14	317	85220	4.96E+06	14	4711	M5,EN
	8465	37	86/02/06	0617:12	0622:05	1857	92037	1.18E+07	15	4711	I
*	8846	105	88/04/14	1936:41	1938:16	1487	31060	5.58E+06	15	4990	M5
	9041	176	88/06/24	0418:14	0424:44	2327	10790	4.13E+06	12	5047	DG
	9050	176	88/06/24	1640:48	1647:00	1106	146300	4.56E+07	15	5047	M5,ES
	9236	201	88/07/19	0751:09	0752:58	254	21453	621	5	5075	M5
	9516	277	88/10/03	1511:14	1511:18	786	52070	5.22E+06	15	5171	M5,EN,SA
	9578	287	88/10/13	2025:44	2030:47	2193	11200	1.07E+06	15		
	9940	351	88/12/16	0828:40	0833:28	6504	69980	3.00E+07	15	5278	M1,SN,IN,DG
	10399	40	89/02/09	1259:40	1300:03	882	23910	1.90E+06	15	5355	M5,SN,ES
	10538	65	89/03/06	1355:15	1402:59	14724	185926	1.57E+08	15	5395	M5,I ,SN,EN,IN DG
	10560	66	89/03/07	0555:14	0557:46	477	42780	5.43E+05	15	5395	M5,EG
	10576	66	89/03/07	1317:01	1319:08	668	19520	1.16E+06	15	5395	M5
	10581	66	89/03/07	1450:38	1454:40	964	18120	4.03E+06	15	5395	M5
	10644	67	89/03/08	1851:49	1854:51	905	14560	1.00E+06	10		M5
	10681	68	89/03/09	1516:40	1535:55	1716	40100	1.54E+07	13	5395	M5
	10741	69	89/03/10	1903:28	1912:38	8454	74850	6.43E+07	15	5395	M5,SN,EN,IN,IS
	10923	75	89/03/16	1522:37	1525:09	5340	160100	1.77E+07	15	5395	M5,IN,IS
	10938	76	89/03/17	0714:58	0716:39	1016	14600	6.12E+05	15	5395	EN
	10952	76	89/03/17	1727:40	1736:06	2080	132000	9.62E+07	15	5395	M5,SN,IN,IS,EG
	11200	123	89/05/03	0339:58	0355:55	2703	12970	3.30E+06	15	5470	M5,SN
	11230	125	89/05/05	0721:16	0730:37	3781	14950	4.48E+06	15	5470	M5,IN
	11512	165	89/06/14	1352:19	1352:43	333	32070	1.49E+05	15	5521	M5,FS
	11535	166	89/06/15	1910:39	1914:17	1179	27056	6.00E+06	15	5533	M5,I ,DG
	11533	167	89/06/16	0737:43	0740:39	418	18920	2.82E+06	12	5533	M5,SN,EG
	11658	184	89/07/03	2359:58	0000:43	201	18090	2.90E+05	12	5575	M5,DG
	11764	219	89/08/07	2049:19	2053:54	1184	13880	1.32E+06	15	5622	M5,ES
	11811	226	89/08/14	0039:26	0043:12	1745	53950	1.39E+07	15	5629	M5,IN,DG
	11840	228	89/08/16	0123:04	0123:31	20110	126111	4.84E+07	15	5629	M5,I ,SN,EN,IN IS,DG
	11920	244	89/09/01	0807:52	0817:36	932	17950	1.83E+06	15	5671	M5
	11999	252	89/09/09	0909:15	0910:40	1532	111000	4.51E+06	15	5680	M5,DG
	12024	254	89/09/11	1938:29	1940:08	246	10760	3.86E+05	15	5680	M5,ES
	12165	272	89/09/29	1133:13	1133:14	6800	65630	1.94E+07	15	5698	M5,EN,IN,SA,IS
*	12222	292	89/10/19	1255:18	1258:43	18078	202600	1.42E+08	15	5747	M5,SN,IN,EG
*	12287	297	89/10/24	1759:51	1810:24	6603	72444	6.95E+07	15	5747	M5,IN,ES,IS,SG DG
*	12289	298	89/10/25	1632:28	1636:46	3062	42430	3.29E+06	15	5747	IS,DG,ND
*	12310	300	89/10/27	1129:59	1131:01	1287	13200	1.32E+06	15	5747	EN
*	12311	300	89/10/27	1858:06	1901:15	863	44537	5.68E+06	15	5747	I ,ES
*	12435	313	89/11/09	0819:22	0821:40	431	10830	1.47E+05	15	5786	M5,FS
*	12511	319	89/11/15	0657:06	0658:01	3211	23000	5.13E+06	15	5786	SN,EN,IS
*	12513	319	89/11/15	1917:36	1934:04	2060	52700	7.35E+06	15		EN,DG
*	12669	323	89/11/19	0617:40	0621:40	327	24352	8.08E+05	15	5793	M5,I

Appendix B. Non-Solar Gamma-Ray Bursts

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
27	67	80/03/07	0507:40	0508:25	47	129	1690	13		NS,GB
8464	84	80/03/24	2358:00	2358:02	5	55	33			NS,GB
308	110	80/04/19	0119:45	0119:48	18	1000	3030	15		NS,GB
318	112	80/04/21	0308:04	0308:09	27	670	5622	15		NS,GB
10540	133	80/05/12	2331:43	2331:54	26	37				NS,GB
12652	140	80/05/19	0923:58	0924:53	122	80	1170	15		NS,GB
12673	145	80/05/24	1553:53	1553:59	12	70	170	5		NS,GB
12674	154	80/06/02	1320:08	1320:09	16	79	115	5		NS,GB
12675	192	80/07/10	1112:48	1112:51	10	54	73	6		NS,GB
12676	219	80/08/06	2203:28	2203:29	4	46	12			NS,GB
12677	225	80/08/12	1855:44	1855:45	4	35				NS,GB
1077	228	80/08/15	1821:40	1821:44	27	80	356	8		NS,GB
8584	263	80/09/19	1920:54	1921:00	27	64	343	15		NS,GB
1238	264	80/09/20	1409:49	1409:58	31	101	509	8		NS,GB
8585	290	80/10/16	0604:32	0604:37	10	90	166	14		NS,GB
1750	324	80/11/19	1706:05	1706:15	34	121	431	15	2794	NS,GB
8586	355	80/12/20	1830:50	1830:54	12	86	283	15		NS,GB
12678	7	81/01/07	0848:43	0848:45	17	68	111	3		NS,GB
12679	29	81/01/29	0415:31	0415:49	23	57	100	3		NS,GB
2142	56	81/02/25	0446:55	0447:10	53	135	1475	12		NS,GB
12680	59	81/02/28	1616:44	1616:52	20	64	164	6		NS,GB
5393	60	81/03/01	1235:29	1235:31	9	260	573	15		I ,NS,GB
12681	63	81/03/04	0850:45	0850:48	7	78	58	9		NS,GB
12682	98	81/04/08	0048:57	0048:59	4	101	69	11		NS,GB
12683	114	81/04/24	0958:35	0958:58	47	35				NS,GB
12684	156	81/06/05	0513:04	0513:27	46	82	267	10		NS,GB
12685	202	81/07/21	1907:42	1907:45	7	35				NS,GB
12686	213	81/08/01	1718:47	1718:53	29	79	523	8		NS,GB
12687	217	81/08/05	0633:21	0633:23	10	63	86	3		NS,GB
12688	226	81/08/14	1009:28	1009:36	21	52	87	13		NS,GB
12689	249	81/09/06	1156:56	1156:57	14	58	185	14		NS,GB
12690	252	81/09/09	0423:27	0423:28	18	45	5			NS,GB
12691	269	81/09/26	1834:56	1834:58	6	80	81	13		NS,GB
12692	273	81/09/30	1743:34	1743:37	12	54	85			NS,GB
12693	279	81/10/06	0513:22	0513:23	7	140	184	13		NS,GB
3859	289	81/10/16	2353:06	2353:27	29	292	1910	15		NS,GB
12694	306	81/11/02	0336:24	0336:28	7	59	59	9		NS,GB
12695	306	81/11/02	1814:17	1814:20	7	153	148	14		NS,GB
12696	321	81/11/17	1608:53	1608:56	7	59	94	9		NS,GB
12697	365	81/12/31	0137:22	0137:24	26	54	327	14		NS,GB
12698	365	81/12/31	0758:19	0758:20	3	99	72	15		NS,GB
12699	21	82/01/21	0900:35	0900:36	5	57	36	11		NS,GB
12700	21	82/01/21	1412:29	1412:30	3	96	58	15		NS,GB
4379	25	82/01/25	1756:30	1756:32	21	121	292	15		NS,GB
12701	32	82/02/01	0819:30	0819:35	10	33				NS,GB
12702	45	82/02/14	0123:45	0123:47	8	48	58	15		NS,GB
4750	55	82/02/24	2029:14	2029:45	55	77	730	9		NS,GB
12776	60	82/03/01	0235:53	0236:00	168	65	1330	14		NS,GB
12704	62	82/03/03	1621:49	1621:53	11	44	32	14		NS,GB
12705	64	82/03/05	0920:09	0920:13	8	102	176	8		NS,GB
12706	72	82/03/13	0240:30	0240:47	61	55	382	9		NS,GB
12707	79	82/03/20	1310:13	1310:38	34	43	147	8		NS,GB
12708	83	82/03/24	1221:19	1221:24	9	47	63	9		NS,GB
12709	87	82/03/28	1437:36	1437:38	13	59	122	10		NS,GB
7417	88	82/03/29	0950:33	0950:50	30	135	1020	9		I ,NS,GB
8013	90	82/03/31	1520:37	1520:47	11	23				EN,IN,NS,GB
8547	106	82/04/16	1556:09	1556:10	7	51	61	8		NS,GB
8269	122	82/05/02	1316:55	1316:57	3	45	8			NS,GB
* 5132	150	82/05/30	0949:29	0949:35	56	281	2390	14		ND,NS,GB
12710	232	82/08/20	1359:08	1359:11	14	71	134	8		NS,GB
12711	237	82/08/25	1134:03	1134:06	13	62	147	9		NS,GB
12712	240	82/08/28	1349:30	1349:38	10	46	71	8		NS,GB
12713	288	82/10/15	1307:04	1307:05	4	213	219	8		NS,GB
7788	297	82/10/24	0652:20	0652:33	82	91	998	14		I ,NS,GB
12714	301	82/10/28	1933:47	1933:48	3	34				NS,GB
12715	302	82/10/29	1226:21	1227:03	51	51	481	6		NS,GB
5944	306	82/11/02	0131:51	0131:54	10	112	243	15		NS,GB
6784	308	82/11/04	0329:59	0331:04	98	2417	19600	15		M5,I ,FS,NS,GB

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
12716	21	83/01/21	2111:31	2112:02	36	68	426	13		NS,GB
12717	27	83/01/27	1956:40	1956:47	23	47	198	11		NS,GB
6296	41	83/02/10	1220:32	1220:46	18	144	567	13		NS,GB
6392	90	83/03/31	0025:33	0025:48	24	73	334	6		NS,GB
12718	101	83/04/11	2102:13	2102:16	6	41	18			NS,GB
12719	104	83/04/14	0156:28	0156:37	48	43	293	6		NS,GB
12720	122	83/05/02	1647:06	1647:06	12	29				NS,GB
12721	138	83/05/18	1904:19	1904:27	25	161	481	9		NS,GB
12722	142	83/05/22	2247:05	2247:06	3	77	33	15		NS,GB
12723	148	83/05/28	1839:15	1839:18	8	51	28			NS,GB
12724	149	83/05/29	1823:16	1823:48	51	50	306	13		NS,GB
8115	172	83/06/21	1140:38	1140:43	100	235	2430	11		I ,NS,GB
12725	241	83/08/29	0546:44	0546:46	4	45	25	7		NS,GB
12726	320	83/11/16	0834:38	0834:39	4	243	317	5		NS,GB
6774	324	83/11/20	1143:36	1143:54	143	1046	13400	15		FS,NS,GB
12727	348	83/12/14	0017:49	0017:49	2	1043	1010			NS,GB
*12728	108	84/04/17	2237:24	2237:27	5	60				NS,GB
7395	211	84/07/29	1446:45	1447:04	58	109	1150	10		NS,GB
7407	218	84/08/05	2347:55	2348:02	35	103	996	15		NS,GB
7431	233	84/08/20	0200:24	0200:37	32	80	237	15		NS,GB
12729	252	84/09/08	1957:34	1957:35	5	134	163	15		NS,GB
7443	261	84/09/17	1852:23	1852:30	12	116	325	14		NS,GB
12730	289	84/10/15	2256:28	2256:35	15	56	53	8		NS,GB
12731	310	84/11/05	1702:22	1702:22	6	38				NS,GB
12732	319	84/11/14	0401:50	0401:53	7	62	40	10		NS,GB
12733	324	84/11/19	2232:26	2232:39	59	73	592	10		NS,GB
12734	330	84/11/25	0908:17	0908:19	8	74	85	15		NS,GB
7492	340	84/12/05	0128:25	0129:03	128	110	977	14		NS,GB
7521	1	85/01/01	0835:51	0835:59	21	151	294	15		NS,GB
12735	58	85/02/27	0103:50	0103:50	20	46				NS,GB
12736	65	85/03/06	1207:24	1207:33	20	82	315	13		NS,GB
12737	74	85/03/15	2106:44	2106:47	8	83	209	13		NS,GB
12738	77	85/03/18	0956:18	0956:20	8	82	216	15		NS,GB
12739	152	85/06/01	1158:09	1158:10	6	68	23	15		NS,GB
12740	169	85/06/18	0806:23	0806:26	8	75	74	8		NS,GB
7960	199	85/07/18	0040:23	0040:45	39	170	1062	12		NS,GB
12741	200	85/07/19	2335:01	2335:04	6	77	74	6		NS,GB
12742	207	85/07/26	0311:53	0312:12	49	62	404	15		NS,GB
12743	210	85/07/29	0153:49	0153:57	14	58	97	7		NS,GB
12744	232	85/08/20	1452:09	1452:42	58	90	440	12		NS,GB
12745	238	85/08/26	1254:22	1254:24	7	46	28			NS,GB
12746	239	85/08/27	2308:12	2308:16	12	67	103	10		NS,GB
12747	270	85/09/27	1146:16	1146:33	35	112	1240	12		NS,GB
8010	285	85/10/12	1044:31	1044:34	12	69	196	10		NS,GB
12748	290	85/10/17	0933:29	0933:30	6	83	207	11		NS,GB
12749	297	85/10/24	1456:15	1456:20	9	69	150	11		NS,GB
12750	5	86/01/05	1734:43	1734:51	64	58	333	11		NS,GB
12751	49	86/02/18	0438:15	0438:19	11	52	39	9		NS,GB
12752	61	86/03/02	1131:35	1132:41	91	57	364	10		NS,GB
8218	85	86/03/26	0334:02	0334:19	43	212	1840	14		NS,GB
12753	137	86/05/17	0241:31	0241:44	22	67	356	15		NS,GB
8292	215	86/08/03	0148:19	0148:31	15	108	237	12		I ,NS,GB
12754	221	86/08/09	1603:20	1603:26	12	65	106	10		NS,GB
12755	222	86/08/10	1057:26	1057:27	5	51	31	5		NS,GB
7994	238	86/08/26	1230:31	1230:46	51	89	798	9		I ,NS,GB
8262	275	86/10/02	1820:51	1820:54	7	239	531	15		NS,GB
12756	303	86/10/30	1006:30	1006:35	10	86	121	5		NS,GB
12757	313	86/11/09	0528:58	0528:59	3	184	157	15		NS,GB
12758	327	86/11/23	0421:08	0421:15	17	65	115	5		NS,GB
8293	331	86/11/27	0041:57	0042:03	14	122	242	12		NS,GB
12759	33	87/02/02	0253:42	0253:49	17	67	188	12		NS,GB
8397	70	87/03/11	2344:21	2344:39	172	206	4231	14		I ,NS,GB
12760	98	87/04/08	1017:16	1017:17	12	73	117	5		NS,GB
8411	135	87/05/15	0826:58	0827:02	88	395	1640	15		NS,GB
8453	148	87/05/28	0853:31	0853:48	32	180	1156	14		NS,GB
8463	153	87/06/02	0115:59	0116:07	28	179	789	11		NS,GB
12761	160	87/06/09	2346:17	2347:15	69	90	520	15		NS,GB
8471	168	87/06/17	0842:06	0842:22	45	341	2730	15		NS,GB

HXRBS Event	DOY	Start Date YY/MM/DD	Start Time HHMM:SS	Peak Time HHMM:SS	Duration sec	Peak Rate c/s	Total Counts	Max. Ch. #	NOAA Region #	Flags
8524	222	87/08/10	0755:44	0755:46	16	211	571	15		NS,GB
12762	252	87/09/09	0840:25	0840:28	40	62	215	14		NS,GB
12763	254	87/09/11	1627:12	1627:15	8	61	67	5		NS,GB
8597	284	87/10/11	1600:39	1600:57	45	125	1130	14		NS,GB
12764	285	87/10/12	1239:40	1239:41	4	49	32			NS,GB
8630	294	87/10/21	1906:54	1907:02	23	67	271	15		I ,NS,GB
8618	307	87/11/03	0414:53	0414:57	18	337	914	9		NS,GB
* 8632	319	87/11/15	1623:14	1623:19	17	90	209	6		M ,NS,GB
8656	337	87/12/03	1220:23	1220:32	22	74	199	7		NS,GB
12765	70	88/03/10	0340:16	0340:37	32	76	264	15		NS,GB
8750	75	88/03/15	1147:00	1151:54	678	944	1.38E+05	7	4964	M1,NS,GB
12766	78	88/03/18	1624:55	1625:02	22	64	271	11		NS,GB
* 9005	161	88/06/09	0600:04	0600:18	65	125	639	14		NS,GB
12767	203	88/07/21	0820:27	0820:30	33	63	182	15		NS,GB
9595	219	88/08/06	1903:33	1903:40	23	61	203	10	5092	I ,NS,GB
12768	271	88/09/27	0335:33	0335:38	41	51	188	11		NS,GB
9541	280	88/10/06	0531:59	0533:19	137	136	2265	10		NS,GB
9586	290	88/10/16	0525:03	0525:12	14	116	553	15		EN,NS,GB
12769	294	88/10/20	1100:12	1100:43	36	58	522	9		ND,NS,GB
9714	298	88/10/24	2205:20	2205:24	27	214	1075	15		NS,GB
10295	320	88/11/15	2251:46	2251:53	63	80	898	10	5229	I ,NS,GB
9858	331	88/11/26	0938:37	0938:50	34	116	750	8		NS,GB
9872	338	88/12/03	2004:24	2004:43	37	55	285	7		NS,GB
12770	345	88/12/10	1948:53	1948:57	15	44	101	8		NS,GB
9960	353	88/12/18	0731:34	0732:36	153	368	8383	14		FS,NS,GB
12771	5	89/01/05	1855:46	1855:56	28	49	144	5		NS,GB
12775	55	89/02/24	1947:03	1947:06	16	286	1360	13		FS,NS,GB
12772	65	89/03/06	1651:29	1651:31	6	60	63	15		NS,GB
12773	108	89/04/18	1105:01	1105:03	13	32	49	8		NS,GB
12774	177	89/06/26	0352:15	0352:16	7	57	53	15		NS,GB
11674	189	89/07/08	1416:59	1417:06	15	98	534	6	5572	NS,GB
12703	190	89/07/09	1023:49	1023:51	4	72	59	6		NS,GB
8412	201	89/07/20	1336:11	1336:14	6	36	57	8		NS,GB
11719	206	89/07/25	2008:45	2009:01	20	42	129	4		NS,GB
10539	240	89/08/28	0558:34	0558:36	10	125	395	15		NS,GB
8559	260	89/09/17	1410:18	1410:20	15	29	82	4		NS,GB
12093	265	89/09/22	2001:25	2001:29	40	390	1267	15		NS,GB
12167	272	89/09/29	1512:44	1512:46	14	56	165	8		NS,GB
12170	278	89/10/05	0326:54	0326:57	13	38	88	13		NS,GB

Appendix C. Energies of HXRBS Channel Edges

This table documents the energy loss in keV in the central detector corresponding to the edges of the 15 pulse-height channels of HXRBS on the fifteenth day of each month from February, 1980 to November, 1989. Note that the values given for April 1984 reflect the change in gain made on April 19 at 2220 UT, after the SMM repair. Other relatively sudden gain changes in October 1985 and December 1988 are believed to have resulted from loss of sensitivity in individual photomultipliers viewing the CsI(Na) scintillation crystal either from loss of optical contact or from electrical malfunction.

Ch. #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1980															
Feb	25.0	29.2	49.4	70.2	91.7	114.	136.	159.	183.	209.	234.	261.	290.	319.	349.	438.
Mar	26.0	30.4	51.3	73.0	95.3	118.	141.	165.	190.	217.	244.	271.	301.	331.	363.	455.
Apr	26.6	31.2	52.6	74.8	97.7	121.	145.	169.	195.	223.	250.	278.	309.	340.	372.	467.
May	27.2	31.8	53.7	76.3	99.7	123.	147.	173.	199.	227.	255.	284.	315.	346.	379.	476.
Jun	27.6	32.3	54.6	77.6	101.	125.	150.	176.	202.	231.	259.	288.	320.	352.	385.	484.
Jul	28.0	32.7	55.3	78.6	103.	127.	152.	178.	205.	234.	262.	292.	324.	357.	390.	490.
Aug	28.3	33.1	55.9	79.5	104.	129.	153.	180.	207.	236.	265.	296.	328.	361.	395.	496.
Sep	28.6	33.4	56.4	80.2	105.	130.	155.	182.	209.	239.	268.	298.	331.	364.	399.	501.
Oct	28.8	33.7	56.9	80.9	106.	131.	156.	183.	211.	241.	270.	301.	334.	367.	402.	505.
Nov	29.0	34.0	57.4	81.6	106.	132.	158.	185.	213.	243.	272.	303.	337.	370.	405.	509.
Dec	29.2	34.2	57.8	82.1	107.	133.	159.	186.	214.	244.	274.	305.	339.	373.	408.	513.
1981															
Jan	29.4	34.4	58.2	82.7	108.	134.	160.	187.	215.	246.	276.	307.	341.	375.	411.	516.
Feb	29.6	34.6	58.5	83.2	109.	135.	161.	188.	217.	248.	278.	309.	343.	377.	413.	519.
Mar	29.8	34.8	58.8	83.6	109.	135.	161.	189.	218.	249.	279.	311.	345.	379.	415.	522.
Apr	29.9	35.0	59.1	84.0	110.	136.	162.	190.	219.	250.	280.	312.	347.	381.	418.	524.
May	30.0	35.1	59.4	84.4	110.	137.	163.	191.	220.	251.	282.	314.	349.	383.	420.	527.
Jun	30.2	35.3	59.7	84.8	111.	137.	164.	192.	221.	252.	283.	315.	350.	385.	422.	529.
Jul	30.3	35.5	59.9	85.2	111.	138.	165.	193.	222.	253.	284.	317.	352.	387.	423.	532.
Aug	30.4	35.6	60.2	85.5	112.	138.	165.	194.	223.	255.	286.	318.	353.	388.	425.	534.
Sep	30.6	35.7	60.4	85.9	112.	139.	166.	194.	224.	256.	287.	319.	354.	390.	427.	536.
Oct	30.7	35.9	60.6	86.2	113.	139.	166.	195.	225.	256.	288.	320.	356.	391.	428.	538.
Nov	30.8	36.0	60.8	86.5	113.	140.	167.	196.	225.	257.	289.	322.	357.	393.	430.	540.
Dec	30.9	36.1	61.0	86.8	113.	140.	168.	196.	226.	258.	290.	323.	358.	394.	431.	542.
1982															
Jan	31.0	36.2	61.2	87.0	114.	141.	168.	197.	227.	259.	291.	324.	359.	395.	433.	543.
Feb	31.1	36.4	61.4	87.3	114.	141.	169.	198.	228.	260.	292.	325.	361.	396.	434.	545.
Mar	31.2	36.5	61.6	87.6	114.	142.	169.	198.	228.	261.	292.	326.	362.	397.	435.	547.
Apr	31.3	36.6	61.8	87.8	115.	142.	170.	199.	229.	261.	293.	327.	363.	399.	436.	548.
May	31.3	36.7	61.9	88.1	115.	142.	170.	199.	229.	262.	294.	327.	364.	400.	438.	550.
Jun	31.4	36.8	62.1	88.3	115.	143.	171.	200.	230.	263.	295.	328.	365.	401.	439.	551.
Jul	31.5	36.9	62.3	88.5	116.	143.	171.	200.	231.	263.	296.	329.	365.	402.	440.	553.
Aug	31.6	36.9	62.4	88.7	116.	144.	171.	201.	231.	264.	296.	330.	366.	403.	441.	554.
Sep	31.7	37.0	62.6	89.0	116.	144.	172.	201.	232.	265.	297.	331.	367.	404.	442.	555.
Oct	31.7	37.1	62.7	89.2	116.	144.	172.	202.	232.	265.	298.	332.	368.	405.	443.	557.
Nov	31.8	37.2	62.9	89.4	117.	145.	173.	202.	233.	266.	298.	332.	369.	406.	444.	558.
Dec	31.9	37.3	63.0	89.6	117.	145.	173.	203.	233.	267.	299.	333.	370.	407.	445.	559.

Ch. #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1983															
Jan	31.9	37.4	63.1	89.8	117.	145.	173.	203.	234.	267.	300.	334.	371.	407.	446.	560.
Feb	32.0	37.5	63.3	89.9	117.	146.	174.	204.	234.	268.	300.	335.	371.	408.	447.	561.
Mar	32.1	37.5	63.4	90.1	118.	146.	174.	204.	235.	268.	301.	335.	372.	409.	448.	563.
Apr	32.1	37.6	63.5	90.3	118.	146.	174.	204.	235.	269.	301.	336.	373.	410.	449.	564.
May	32.2	37.7	63.6	90.5	118.	146.	175.	205.	236.	269.	302.	336.	374.	411.	450.	565.
Jun	32.3	37.7	63.8	90.6	118.	147.	175.	205.	236.	270.	303.	337.	374.	411.	450.	566.
Jul	32.3	37.8	63.9	90.8	119.	147.	175.	206.	237.	270.	303.	338.	375.	412.	451.	567.
Aug	32.4	37.9	64.0	91.0	119.	147.	176.	206.	237.	271.	304.	338.	376.	413.	452.	568.
Sep	32.4	37.9	64.1	91.1	119.	147.	176.	206.	238.	271.	304.	339.	376.	414.	453.	569.
Oct	32.5	38.0	64.2	91.3	119.	148.	176.	207.	238.	272.	305.	340.	377.	414.	454.	570.
Nov	32.5	38.1	64.3	91.4	119.	148.	177.	207.	238.	272.	305.	340.	378.	415.	454.	571.
Dec	32.6	38.1	64.4	91.6	120.	148.	177.	207.	239.	273.	306.	341.	378.	416.	455.	572.
1984															
Jan	32.7	38.2	64.5	91.7	120.	148.	177.	208.	239.	273.	306.	341.	379.	416.	456.	573.
Feb	32.7	38.3	64.6	91.9	120.	149.	177.	208.	239.	273.	307.	342.	379.	417.	457.	574.
Mar	32.8	38.3	64.7	92.0	120.	149.	178.	208.	240.	274.	307.	342.	380.	418.	457.	574.
Apr	24.4	28.4	47.6	67.3	87.4	108.	128.	150.	172.	196.	219.	243.	269.	295.	322.	401.
May	24.4	28.5	47.7	67.4	87.6	108.	129.	150.	172.	196.	219.	243.	269.	295.	322.	402.
Jun	24.5	28.5	47.8	67.5	87.8	108.	129.	150.	173.	196.	220.	244.	270.	296.	323.	402.
Jul	24.5	28.6	47.9	67.7	88.0	109.	129.	151.	173.	197.	220.	244.	270.	298.	324.	403.
Aug	24.5	28.6	48.0	67.8	88.1	109.	129.	151.	173.	197.	220.	245.	271.	297.	324.	404.
Sep	24.6	28.7	48.1	67.9	88.3	109.	130.	151.	174.	198.	221.	245.	271.	298.	325.	405.
Oct	24.6	28.7	48.2	68.1	88.5	109.	130.	152.	174.	198.	221.	246.	272.	298.	325.	406.
Nov	24.7	28.8	48.2	68.2	88.6	109.	130.	152.	174.	198.	222.	246.	272.	299.	326.	406.
Dec	24.9	29.0	48.6	68.7	89.3	110.	131.	153.	176.	200.	223.	248.	275.	301.	329.	409.
1985															
Jan	25.2	29.3	49.2	69.5	90.3	111.	133.	155.	178.	202.	226.	251.	278.	304.	332.	414.
Feb	25.2	29.4	49.3	69.7	90.6	112.	133.	155.	178.	203.	227.	252.	279.	305.	333.	415.
Mar	25.3	29.5	49.5	69.9	90.9	112.	133.	156.	179.	203.	227.	252.	279.	306.	334.	417.
Apr	25.4	29.6	49.6	70.1	91.1	112.	134.	156.	179.	204.	228.	253.	280.	307.	335.	418.
May	25.5	29.7	49.8	70.3	91.4	113.	134.	157.	180.	205.	229.	254.	281.	308.	336.	419.
Jun	25.6	29.8	49.9	70.6	91.7	113.	135.	157.	180.	205.	229.	255.	282.	309.	337.	420.
Jul	25.6	29.9	50.1	70.7	92.0	113.	135.	158.	181.	206.	230.	255.	283.	310.	338.	421.
Aug	25.7	29.9	50.1	70.9	92.1	114.	135.	158.	181.	206.	230.	256.	283.	310.	339.	422.
Sep	27.2	31.7	53.1	75.0	97.5	120.	143.	167.	192.	218.	244.	271.	300.	329.	359.	447.
Oct	30.5	35.6	59.7	84.4	110.	135.	161.	188.	216.	245.	274.	305.	337.	370.	403.	503.
Nov	31.0	36.2	60.6	85.7	111.	137.	163.	191.	219.	249.	279.	309.	342.	375.	410.	511.
Dec	31.4	36.6	61.3	86.6	113.	139.	165.	193.	221.	252.	282.	313.	346.	380.	414.	516.
1986															
Jan	31.7	37.0	62.0	87.7	114.	141.	167.	195.	224.	255.	285.	317.	350.	384.	419.	522.
Feb	32.1	37.5	62.8	88.7	115.	142.	169.	198.	227.	258.	288.	320.	354.	388.	424.	528.
Mar	32.4	37.7	63.2	89.4	116.	143.	170.	199.	228.	260.	291.	323.	357.	392.	427.	533.
Apr	32.6	38.0	63.7	90.1	117.	144.	172.	201.	230.	262.	293.	325.	360.	395.	431.	537.
May	32.9	38.3	64.2	90.8	118.	146.	173.	202.	232.	264.	295.	328.	363.	398.	434.	541.
Jun	33.1	38.6	64.7	91.5	119.	147.	174.	204.	234.	266.	297.	330.	365.	401.	437.	545.
Jul	33.3	38.9	65.2	92.1	120.	148.	176.	205.	235.	268.	299.	333.	368.	403.	440.	549.
Aug	33.6	39.2	65.6	92.8	121.	149.	177.	207.	237.	270.	302.	335.	371.	406.	444.	553.
Sep	33.8	39.5	66.1	93.5	121.	150.	178.	208.	239.	272.	304.	338.	373.	409.	447.	557.
Oct	34.0	39.7	66.5	94.0	122.	151.	179.	209.	240.	273.	306.	340.	376.	412.	450.	560.
Nov	34.2	39.9	66.8	94.4	123.	151.	180.	210.	241.	275.	307.	341.	377.	414.	452.	563.
Dec	34.3	40.0	67.1	94.8	123.	152.	181.	211.	242.	276.	308.	342.	379.	415.	453.	565.
1987															
Jan	34.5	40.2	67.4	95.2	124.	153.	182.	212.	243.	277.	310.	344.	381.	417.	455.	567.
Feb	34.6	40.4	67.6	95.6	124.	153.	182.	213.	244.	278.	311.	345.	382.	419.	457.	570.
Mar	34.7	40.5	67.9	96.0	125.	154.	183.	214.	245.	279.	312.	347.	383.	420.	459.	572.
Apr	34.9	40.7	68.2	96.4	125.	155.	184.	215.	246.	280.	313.	348.	385.	422.	461.	574.
May	35.0	40.8	68.4	96.7	126.	155.	184.	215.	247.	281.	314.	349.	386.	424.	462.	576.
Jun	35.1	41.0	68.6	97.0	126.	156.	185.	216.	248.	282.	315.	350.	388.	425.	464.	578.
Jul	35.2	41.1	68.8	97.3	126.	156.	186.	217.	249.	283.	316.	351.	389.	426.	465.	580.
Aug	35.3	41.2	69.0	97.6	127.	156.	186.	217.	249.	284.	317.	352.	390.	427.	467.	581.
Sep	35.4	41.3	69.2	97.9	127.	157.	187.	218.	250.	285.	318.	353.	391.	429.	468.	583.
Oct	35.5	41.4	69.4	98.1	128.	157.	187.	219.	251.	285.	319.	354.	392.	430.	469.	585.
Nov	35.6	41.6	69.6	98.4	128.	158.	188.	219.	251.	286.	320.	355.	393.	431.	471.	586.
Dec	35.7	41.7	69.8	98.7	128.	158.	188.	220.	252.	287.	321.	356.	394.	432.	472.	588.

Ch. #	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
1988															
Jan	35.8	41.8	70.0	99.0	129.	159.	189.	220.	253.	288.	322.	357.	395.	433.	473.	590.
Feb	35.9	41.9	70.2	99.2	129.	159.	189.	221.	254.	289.	323.	358.	397.	435.	475.	591.
Mar	36.0	42.0	70.4	99.5	129.	160.	190.	222.	254.	289.	324.	359.	398.	436.	476.	593.
Apr	36.1	42.1	70.6	99.8	130.	160.	190.	222.	255.	290.	325.	360.	399.	437.	477.	595.
May	36.2	42.3	70.8	100.	130.	161.	191.	223.	256.	291.	325.	361.	400.	438.	479.	596.
Jun	36.3	42.4	71.0	100.	130.	161.	191.	223.	256.	292.	326.	362.	401.	439.	480.	598.
Jul	36.4	42.4	71.1	101.	131.	161.	192.	224.	257.	292.	327.	363.	402.	440.	481.	599.
Aug	36.5	42.5	71.3	101.	131.	162.	192.	224.	257.	293.	328.	364.	403.	441.	482.	600.
Sep	36.6	42.6	71.4	101.	131.	162.	193.	225.	258.	294.	328.	365.	404.	442.	483.	602.
Oct	36.7	42.8	71.6	101.	132.	162.	193.	226.	259.	294.	329.	366.	405.	444.	484.	603.
Nov	38.0	44.3	74.3	105.	136.	168.	200.	234.	268.	305.	341.	379.	419.	460.	502.	625.
Dec	51.9	60.6	102.	143.	186.	230.	274.	320.	367.	417.	467.	518.	573.	628.	686.	855.
1989																
Jan	52.0	60.6	102.	144.	187.	230.	274.	320.	367.	418.	467.	518.	574.	629.	687.	855.
Feb	52.0	60.7	102.	144.	187.	230.	274.	320.	367.	418.	467.	519.	574.	629.	687.	856.
Mar	52.1	60.7	102.	144.	187.	231.	274.	320.	367.	418.	468.	519.	575.	630.	687.	857.
Apr	52.1	60.8	102.	144.	187.	231.	274.	320.	368.	418.	468.	520.	575.	630.	688.	857.
May	52.1	60.8	102.	144.	187.	231.	275.	321.	368.	419.	468.	520.	575.	631.	688.	858.
Jun	52.2	60.8	102.	144.	187.	231.	275.	321.	368.	419.	468.	520.	576.	631.	689.	858.
Jul	52.2	60.9	102.	144.	187.	231.	275.	321.	368.	419.	469.	521.	576.	631.	689.	859.
Aug	52.2	60.9	102.	144.	188.	231.	275.	321.	369.	420.	469.	521.	576.	632.	690.	860.
Sep	52.3	61.0	102.	144.	188.	232.	275.	322.	369.	420.	469.	521.	577.	632.	690.	860.
Oct	52.3	61.0	102.	144.	188.	232.	276.	322.	369.	420.	470.	522.	577.	633.	691.	861.
Nov	52.3	61.0	102.	145.	188.	232.	276.	322.	369.	420.	470.	522.	578.	633.	691.	861.

Appendix D. Time Periods of Non-standard Gain Settings

This table documents the dates, times, and energy ranges for periods when different amplifier gain settings were used, resulting in channel edges that differ from those in Appendix C. The individual channel edges divide the full energy range in the same ratios as in Appendix C.

Start Time (UT) YY/MM/DD HHMM	End Time (UT) YY/MM/DD HHMM	Energy Range (keV)
81/03/09 1807	81/03/12 1542	12.6 - 194
81/03/12 1542	81/03/18 2134	106. - 1332
81/03/18 2134	81/03/23 1911	43.5 - 791
83/01/05 2111	83/01/07 1715	13.8 - 209
83/09/08 1828	83/09/16 2110	13.8 - 212
84/04/15 0710	84/04/17 1808	32.8 - 575
84/04/17 1808	84/04/19 2220	14.0 - 215
86/10/27 1655	86/10/29 2104	19.5 - 301
87/02/10 1648	87/02/12 2020	19.8 - 305
87/02/13 1525	87/02/16 2230	19.8 - 305
87/02/17 0334	87/02/19 2140	19.8 - 305
87/02/20 0212	87/02/24 1922	19.9 - 305
87/04/28 1941	87/04/30 1926	20.0 - 308
87/04/30 1926	87/05/05 1315	169. - 2112
87/09/03 1531	87/09/04 1824	20.3 - 312
87/12/07 1839	87/12/08 1809	20.5 - 315
88/02/02 2021	88/02/03 1949	173. - 2167
88/02/18 2306	88/02/23 2040	20.6 - 317
88/02/24 0137	88/02/26 2046	20.6 - 317
88/04/08 1644	88/04/25 1437	20.7 - 319
88/06/06 1144	88/06/07 1415	20.8 - 320
88/06/08 1702	88/06/09 1454	20.8 - 320
88/06/10 1119	88/06/11 1046	20.8 - 320
88/06/12 0836	88/06/13 0944	20.8 - 320
88/06/14 0734	88/06/15 0840	20.8 - 320
88/06/16 0812	88/06/17 0741	20.8 - 320
88/06/18 0829	88/06/19 0638	20.8 - 320
88/06/20 0723	88/06/21 0534	20.8 - 320
88/07/25 1508	88/07/25 2150	20.9 - 321
88/07/27 1404	88/07/27 1932	20.9 - 321
88/07/29 1202	88/07/29 1947	20.9 - 321
88/07/31 1157	88/07/31 1840	20.9 - 321
88/08/02 0817	88/08/02 1622	20.9 - 321
88/08/04 0851	88/08/04 1405	20.9 - 321
88/08/09 0432	88/08/09 1237	20.9 - 321
88/08/10 0358	88/08/10 1206	20.9 - 321
88/08/12 0352	88/08/12 0928	20.9 - 321
88/08/14 0249	88/08/14 0824	20.9 - 321
88/08/16 0100	88/08/16 1144	20.9 - 322
88/08/17 2219	88/08/18 0723	20.9 - 322
88/08/19 2253	88/08/20 0514	20.9 - 322
89/06/16 0744	89/06/16 0808	29.9 - 460
89/06/16 0918	89/06/16 0940	29.9 - 460
89/06/16 1221	89/06/16 1244	29.9 - 460
89/07/05 0602	89/07/05 0734	252. - 3153
89/07/05 0907	89/07/05 1038	252. - 3153
89/07/05 1038	89/07/05 1342	29.9 - 460
89/09/27 0646	89/09/27 1633	30.0 - 461
89/10/10 1844	89/10/11 2252	30.0 - 461
89/10/11 2252	89/11/17 2125	37.1 - 461
89/11/17 2125	89/11/17 2214	30.0 - 461
89/11/17 2214	89/11/30 1200	37.2 - 461

Appendix E. Notes on Individual Events

The following conditions applied to events flagged with an asterisk in front of the HXRBS event number.

HXRBS Events	Comments
1219-1220	Times on flare optical disk are low by $4^{m}.\ 30^{s}$.
1223	Times on flare optical disk are low by $4^{m}.\ 30^{s}$.
2203-2209	Gain change. Energy range 12.8 - 194 keV.
2210-2213	Gain change. Energy range 106 - 1332 keV.
2214-2240 & 5884	Gain change. Energy range 43.5 - 791 keV.
3568-3618	Times on flare optical disk are low by 3.072^{s}.
5053-5082	Times on flare optical disk are high by 5.12^{s}.
5084-5392	Times on flare optical disk are high by 5.12^{s}.
5394-5417	Times on flare optical disk are high by 5.12^{s}.
5418-5439	Times on flare optical disk are high by 5.63^{s}.
5441	Times on flare optical disk are high by $.511^{s}$.
5443	Times on flare optical disk are high by $.511^{s}$.
5445-5446	Times on flare optical disk are high by $.511^{s}$.
6251-6252	Gain change. Energy range 13.6 - 209 keV.
6710	Gain change. Energy range 13.8 - 212 keV.
6890	Gain change. Energy range 32.8 - 575 keV.
6890-6892	Times on flare optical disk are high by 2.41^{s}.
6891-6892	Gain change. Energy range 14.0 - 215 keV.
6894	Times on flare optical disk are high by 2.41^{s}.
6897-6941	Times on flare optical disk are high by 2.41^{s}.
6946-6959	Times on flare optical disk are high by 2.41^{s}.
6961-7035	Times on flare optical disk are high by 2.41^{s}.
8007	Gain change. Energy range 32.8 - 575 keV.
8223	Times on flare optical disk are high by 1.024^{s}.
8285-8286	Gain change. Energy range 19.5 - 301 keV.
8327-8328	Times on flare optical disk are low by 1.922^{s}.
8349	Gain change. Energy range 19.9 - 305 keV.
8399	Gain change. Energy range 169 - 2112 keV.
8555	Gain change. Energy range 20.3 - 312 keV.
8628	Times on flare optical disk are high by $.298^{s}$.
8629	Times on flare optical disk are high by $.306^{s}$.
8632	Times on flare optical disk are high by $.09^{s}$.
8633	Times on flare optical disk are high by 1.689^{s}.
8634	Times on flare optical disk are high by 1.713^{s}.
8635-8636	Times on flare optical disk are high by 1.725^{s}.
8637	Times on flare optical disk are high by 1.837^{s}.
8638	Times on flare optical disk are high by 1.928^{s}.
8639	Times on flare optical disk are high by 1.964^{s}.
8640	Times on flare optical disk are high by 1.975^{s}.
8732	Gain change. Energy range 20.6 - 317 keV.
8821-8830	Gain change. Energy range 20.7 - 319 keV.
8832-8910	Gain change. Energy range 20.7 - 319 keV.
8923	Gain change. Energy range 20.7 - 319 keV.
8925-8926	Gain change. Energy range 20.7 - 319 keV.
8999-9001	Gain change. Energy range 20.8 - 320 keV.
9005-9006	Gain change. Energy range 20.8 - 320 keV.
9008-9009	Gain change. Energy range 20.8 - 320 keV.
9011-9013	Gain change. Energy range 20.8 - 320 keV.
9016-9018	Gain change. Energy range 20.8 - 320 keV.
9021-9024	Gain change. Energy range 20.8 - 320 keV.
9247	Gain change. Energy range 20.8 - 320 keV.
9260	Gain change. Energy range 20.9 - 321 keV.
9272-9273	Gain change. Energy range 20.9 - 321 keV.
9280-9282	Gain change. Energy range 20.9 - 321 keV.

9294-9297	Gain change. Energy range 20.9 - 321 keV.
9308	Gain change. Energy range 20.9 - 321 keV.
9321	Gain change. Energy range 20.9 - 321 keV.
9317-9352	Times on flare optical disk are high by 1.024^{8}.
9341-9342	Gain change. Energy range 20.9 - 321 keV.
9344	Gain change. Energy range 20.9 - 321 keV.
9348-9349	Gain change. Energy range 20.9 - 321 keV.
9357-9358	Times on flare optical disk are high by 1.024^{8}.
9358	Gain change. Energy range 20.9 - 322 keV.
9360	Times on flare optical disk are high by 1.024^{8}.
12143-12144	Gain change. Energy range 30.0 - 461 keV.
12178-12182	Gain change. Energy range 30.0 - 461 keV.
12183-12218	Gain change. Energy range 37.1 - 461 keV.
12221-12314	Gain change. Energy range 37.1 - 461 keV.
12316-12319	Gain change. Energy range 37.1 - 461 keV.
12321-12525	Gain change. Energy range 37.1 - 461 keV.
12526-12543	Gain change. Energy range 37.2 - 461 keV.
12627	Gain change. Energy range 30.0 - 461 keV.
12628-12651	Gain change. Energy range 37.2 - 461 keV.
12653-12671	Gain change. Energy range 37.2 - 461 keV.
12728	Gain change. Energy range 14.0 - 215 keV.

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B.R. Dennis, L.E. Orwig, G.S. Kennard, G.J. Labow, R.A. Schwartz, A.R. Shaver, A.K. Tolbert

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NASA Goddard Space Flight Center
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This event list is a comprehensive reference for all Hard X-Ray bursts detected with the Hard X-Ray Burst Spectrometer on the Solar Maximum Mission from the time of launch on February 14, 1980 to the end of the mission in December 1989. 12,776 events were detected in the energy range ~ 30 to ~ 600 keV with the vast majority being solar flares. This list includes the start time, peak time, duration, and peak rate of each event.

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