



HS3 Data Catalog

Amber Emory, Dan Chirica, and Jim Doyle

Roadmap

- What we planned
- What we did
 - Model Products: Examples from GMAO, NRL COAMPS TC, and SHIPS
 - Operational Products: Examples from NRL Tropics and CIMSS Brightness Temperatures and TOTs
 - Research (Instrument) Products
- What needs to improve for this year

What we planned...

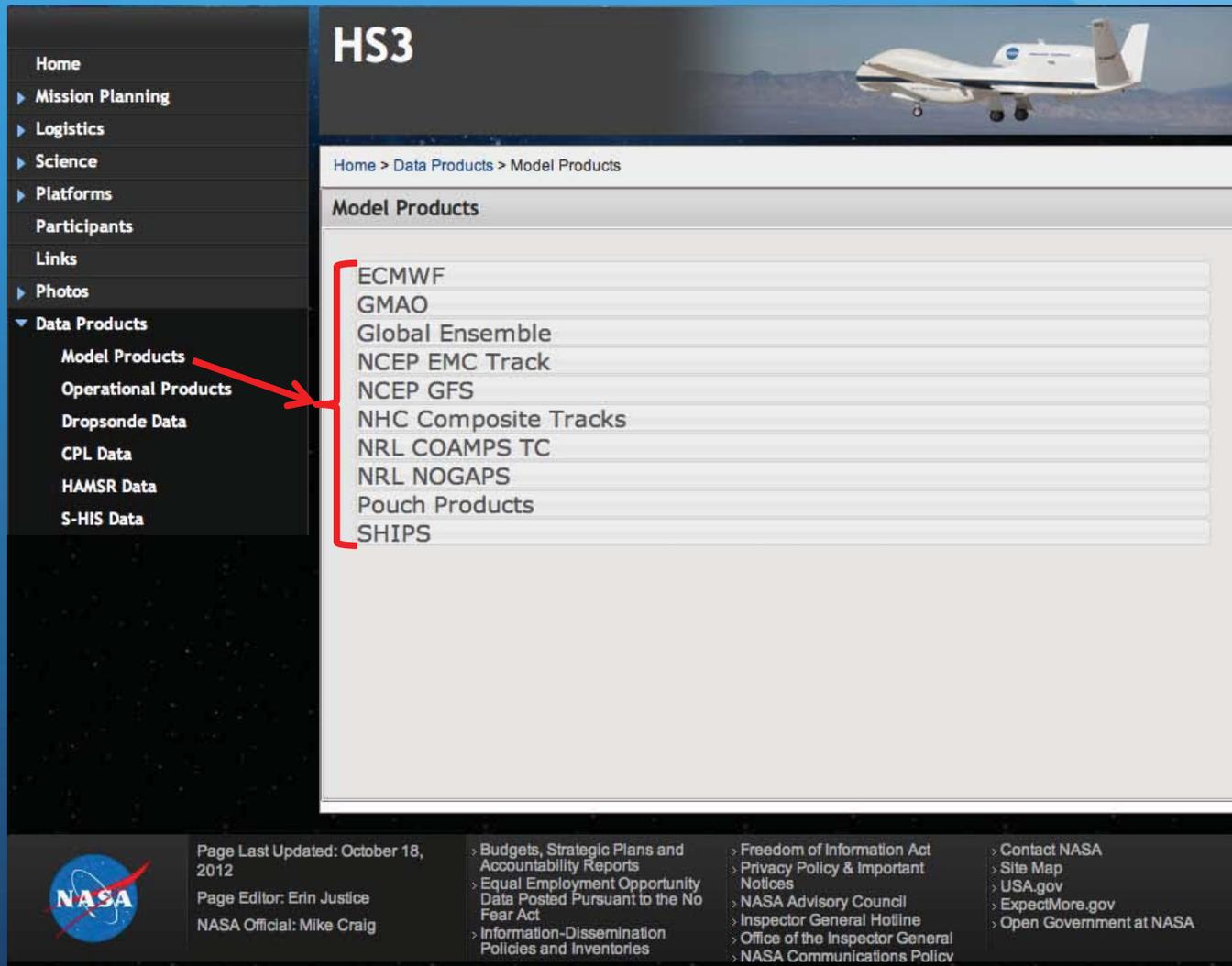
- Many items on PREDICT page are already provided on the ESPO HS3 website or through Mission Tools
- Provide archived images of Operational, Model, and Research (Instrument) Products from the ESPO HS3 website
- Ftp site housed at NASA GSFC (Emory) and front-end website administered from NASA Ames (Chirica)

What we did...

- Operational Products
- Model Products
- Research Products

The screenshot shows the NASA ESPO website for the Hurricane and Severe Storm Sentinel (HS3) mission. The browser address bar displays espo.nasa.gov/missions/hs3/. The page features a navigation menu on the left with the following items: Home, Mission Planning, Logistics, Science, Platforms, Participants, Links, Photos, Data Products (circled in red), Image Gallery, and Aircraft Model. The 'Data Products' menu is expanded, showing sub-items: Model Products, Operational Products, Dropsonde Data, CPL Data, HAMS Data, and S-HIS Data. The main content area includes a header for 'HS3' with a search bar and a 'Log In to HS3' button. Below the header is a large image of a Global Hawk aircraft. The main text describes the mission: 'The Hurricane and Severe Storm Sentinel (HS3) is a five-year mission specifically targeted to investigate the processes that underlie hurricane formation and intensification...'. To the right is a circular logo for 'NASA HURRICANE AND SEVERE STORM SENTINEL HS3'. Below the text is a satellite image of a hurricane labeled 'Fig 1' and a 3D model of the aircraft labeled 'Aircraft Model'. The footer contains various links and contact information, including 'Page Last Updated: April 11, 2013', 'Page Editor: Dan Chirica', and 'NASA Official: Mike Craig'. The footer also includes links for 'Budgets, Strategic Plans and Accountability Reports', 'Freedom of Information Act', 'Privacy Policy & Important Notices', 'Equal Employment Opportunity Data Posted Pursuant to the No Fear Act', 'Information-Dissemination Policies and Inventories', 'NASA Communications Policy', 'Contact NASA', 'Site Map', 'USA.gov', 'ExpectMore.gov', and 'Open Government at NASA'.

Model Products



HS3

Home > Data Products > Model Products

Model Products

- ECMWF
- GMAO
- Global Ensemble
- NCEP EMC Track
- NCEP GFS
- NHC Composite Tracks
- NRL COAMPS TC
- NRL NOGAPS
- Pouch Products
- SHIPS

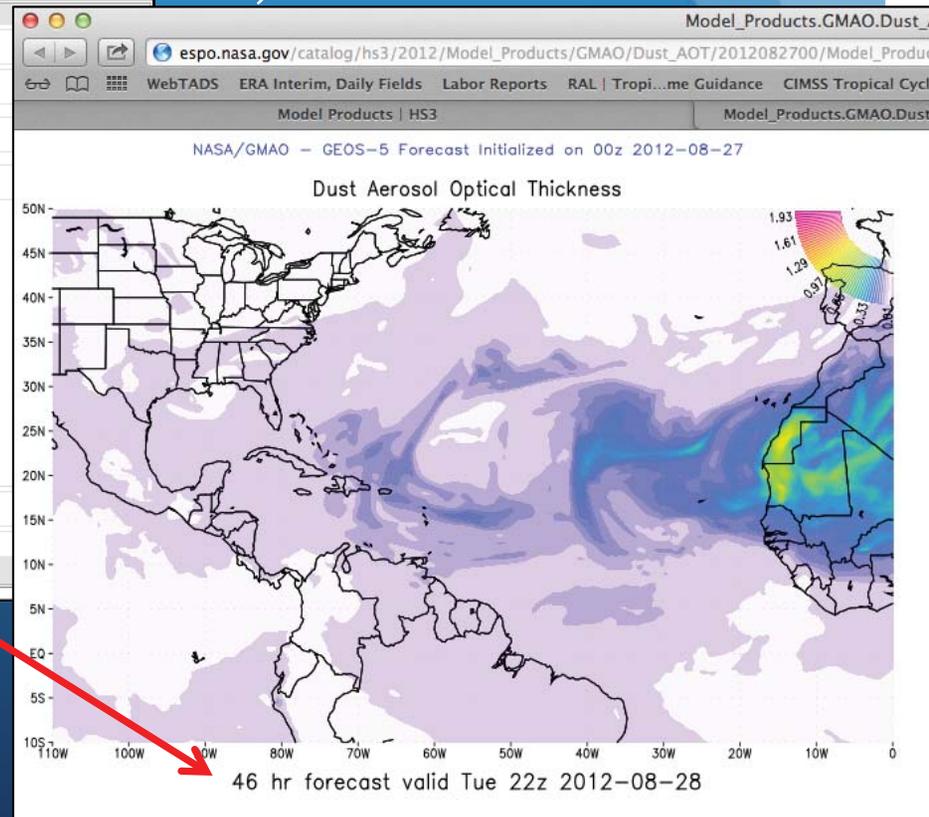
Page Last Updated: October 18, 2012
Page Editor: Erin Justice
NASA Official: Mike Craig

- Budgets, Strategic Plans and Accountability Reports
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- ExpectMore.gov
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Model Products Example: GMAO Dust AOT

GMAO provided GEOS-5 forecasts of Dust AOT out to 120 hours initialized 4X/day (00, 06, 12, 18 UTC) from Aug. 27 - Oct. 20, 2012

The screenshot shows the NASA HS3 website interface. At the top left is the NASA logo. Navigation links include 'ESPO', 'ESPO Archive', and 'Flight Request'. Below these are links for 'Log In to HS3' and 'Create New Account'. A search bar is located on the right. The main content area is titled 'HS3' and features a banner image of a NASA aircraft. Below the banner, the breadcrumb trail reads 'Home > Data Products > Model Products'. The 'Model Products' section is active, showing 'ECMWF' and 'GMAO' options. Under 'GMAO', the 'Dust AOT' product is selected, displaying a grid of time slots for 8/27/2012. The time slots range from 000hr to 120hr in 1-hour increments. The 046hr slot is circled in red, and a red arrow points from it to the map in the adjacent screenshot.



Model Products Example: NRL COAMPS TC

- Home
- ▶ Mission Planning
- ▶ Logistics
- ▶ Science
- ▶ Platforms
- Participants
- Links
- ▶ Photos
- ▼ Data Products
 - Model Products
 - Operational Products
 - Dropsonde Data
 - CPL Data
 - HAMSR Data
 - S-HIS Data

HS3



Home > Data Products > Model Products

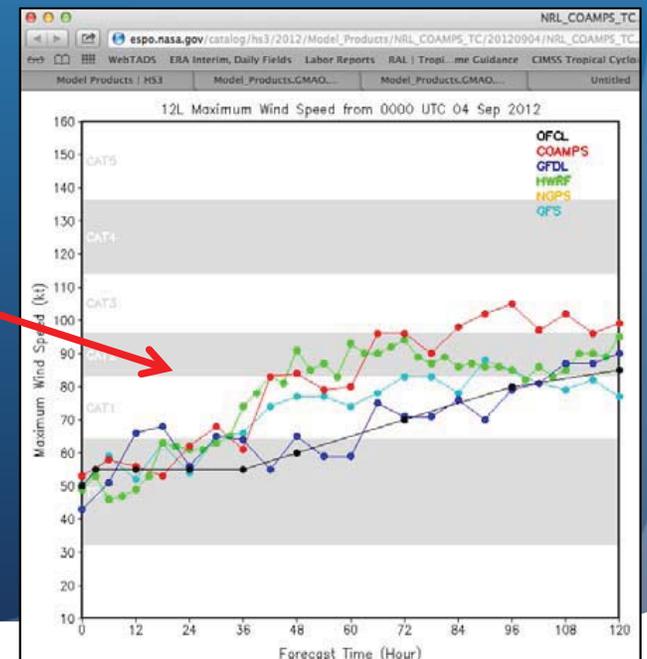
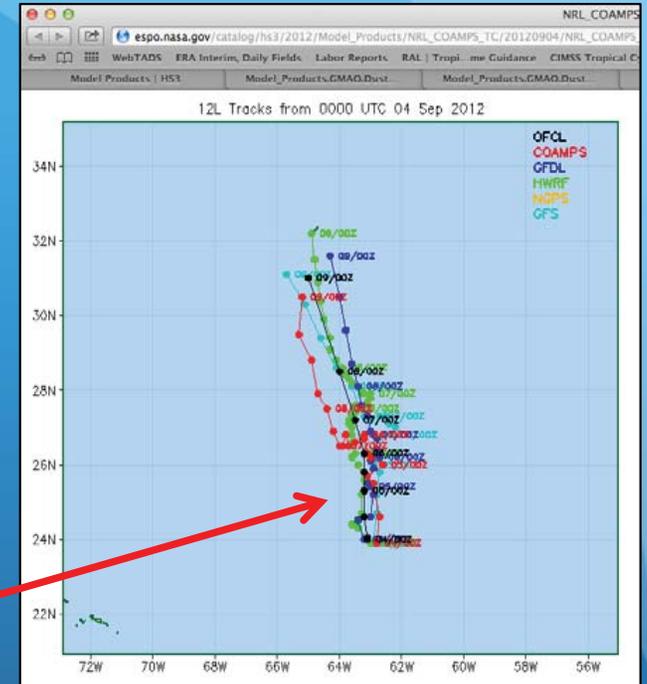
Model Products

- [ECMWF](#)
- [GMAO](#)
- [Global Ensemble](#)
- [NCEP EMC Track](#)
- [NCEP GFS](#)
- [NHC Composite Tracks](#)
- [NRL COAMPS TC](#)
- 9/4/2012
- [NRL NOGAPS](#)
- [Pouch Products](#)
- [SHIPS](#)



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Model Products Example: SHIPS

SHIPS provided Intensity Forecast for the Eastern Pacific as well as the Atlantic

HS3

Home > Data Products > Model Products

Model Products

12091306AL1412	12091306EP1112	12091312AL1412	12091312EP1112	12091318AL1412
12091318CP8112	12091318EP1112	12091318EP9112	12091400AL1412	12091400EP1112
12091400EP9112	12091406AL1412	12091406EP1112	12091406EP9112	12091412AL1412
12091412EP1112	12091412EP9112	12091418AL1412	12091418EP1112	12091418EP9112
12091500AL1412	12091500EP1112	12091500EP9112	12091506AL1412	12091506EP1112
12091506EP9112	12091512AL1412	12091512EP1112	12091512EP1212	12091518AL1412
12091518AL9212	12091518EP1112	12091518EP1212	12091600AL1412	12091600AL9212
12091600EP1112	12091600EP1212	12091606AL1412	12091606AL9212	12091606EP1112
12091606EP1212	12091612AL1412	12091612AL9212	12091612AL9312	12091612EP1112
12091612EP1212	12091618AL1412	12091618AL9212	12091618AL9312	12091618EP1112
12091618EP1212	12091700AL1412	12091700EP1112	12091700EP1212	12091706AL1412
12091706EP1112	12091706EP1212	12091712AL1412	12091712AL9212	12091712AL9312
12091712EP1112	12091712EP1212	12091718AL1412	12091718AL9212	12091718AL9312
12091718EP1212	12091800AL1412	12091800EP1212	12091806AL1412	12091806EP1112
12091812AL1412	12091812EP1212	12091818AL1412	12091818EP1212	12091900AL1412
12091900EP1212	12091906AL1412	12091906EP1212	12091912AL1412	12091912EP1112
12091918AL1412	12091918EP9312	12092000AL1412	12092000AL9412	12092000EP9112
12092006AL1412	12092006AL9412	12092012AL1412	12092012AL9412	12092018AL1412
12092018AL9412	12092018EP9312	12092100AL1412	12092100AL9412	12092100EP9112
12092106AL1412	12092106AL9412	12092106EP9312	12092112AL1412	12092112AL9412
12092112EP9312	12092118AL1412	12092118AL9412	12092200AL1412	12092200AL9412

```

* ATLANTIC SHIPS INTENSITY FORECAST *
* GOES PROXY USED, OHC AVAILABLE *
* NADINE AL142012 09/21/12 12 UTC *

```

TIME (HR)	0	6	12	18	24	36	48	60	72	84	96	108	120
V (KT) NO LAND	55	55	54	52	51	49	51	51	49	47	42	42	42
V (KT) LAND	55	55	54	52	51	49	51	51	49	47	42	42	42
V (KT) LGE mod	55	55	55	55	55	55	55	55	55	55	54	52	51
Storm Type	SUBT	SUBT	TROP										
SHEAR (KT)	9	9	16	14	26	32	27	25	32	29	32	19	120
SHEAR ADJ (KT)	5	0	1	4	3	-2	-2	-7	-3	-7	-2	-7	-3
SHEAR DIR	55	63	49	17	342	268	234	229	226	228	236	244	253
SST (C)	24.5	24.8	25.1	25.3	25.4	25.5	25.4	25.4	25.4	25.4	25.4	25.4	25.4
POT. INT. (KT)	100	102	104	106	106	105	104	104	103	103	103	103	104
ADJ. POT. INT.	85	87	88	89	89	87	85	85	85	85	84	84	85
200 MB T (C)	54.1	54.1	54.3	54.8	54.6	54.5	55.3	54.2	53.9	53.9	54.6	55.1	55.4
700-500 MB RH	4	4	3	3	4	4	4	4	4	4	4	3	2
GFS VTEC (KT)	32	30	28	32	30	26	22	26	27	26	23	23	22
850 MB ENV VFR	185	189	179	155	139	108	105	110	114	110	103	44	3
200 MB DIV	-32	-8	-35	-23	-11	-12	15	-9	9	-3	-12	-28	-26
700-850 TAD	0	-9	-10	-9	-29	-19	6	10	8	0	-3	-20	-22
LAND (KM)	1570	1505	1436	1369	1302	1226	1209	1185	1163	1163	1185	1185	1163
LAT (DEG N)	34.7	34.1	33.5	33.1	32.7	32.5	32.6	32.6	32.5	32.5	32.6	32.6	32.5
LONG (DEG W)	27.5	27.1	26.6	26.1	25.5	24.7	24.4	24.1	23.9	23.9	24.1	24.1	23.9
STM SPEED (KT)	7	6	6	5	2	1	1	1	1	1	0	0	1
HEAT CONTENT	0	0	0	0	0	0	0	0	0	0	0	0	0

```

FORECAST TRACK FROM OFCI INITIAL HEADING/SPEED (DEG/KT):190/ 6 CX,CY: 0/ -5
T-12 MAX WIND: 55 PRESSURE OF STEERING LEVEL (MB): 613 (MEAN=623)
GOES IR BRIGHTNESS TEMP. STD DEV. 50-200 KM RAD: 14.1 (MEAN=14.5)
% GOES IR PIXELS WITH T < -20 C 50-200 KM RAD: 58.0 (MEAN=65.0)

```

	6	12	18	24	36	48	60	72	84	96	108	120
SAMPLE MEAN CHANGE	1.	2.	3.	4.	6.	8.	9.	11.	12.	12.	13.	14.
SST POTENTIAL	-1.	-3.	-4.	-5.	-8.	-9.	-10.	-11.	-12.	-13.	-14.	-14.
VERTICAL SHEAR MAG	1.	2.	3.	4.	4.	3.	1.	-1.	-3.	-5.	-7.	-8.
VERTICAL SHEAR ADJ	0.	0.	0.	-1.	-1.	0.	1.	1.	2.	2.	2.	2.
VERTICAL SHEAR DIR	0.	-1.	-1.	-2.	-1.	0.	1.	3.	4.	6.	7.	8.
PERSISTENCE	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	0.	0.	0.	0.
200/250 MB TEMP.	0.	0.	1.	1.	2.	3.	4.	5.	6.	6.	8.	9.
THETA_E EXCESS	0.	-1.	-2.	-3.	-5.	-7.	-9.	-12.	-14.	-17.	-19.	-21.
700-500 MB RH	0.	0.	0.	0.	1.	2.	2.	2.	3.	3.	3.	2.
GFS VORTEX TENDENCY	0.	-1.	-2.	-3.	-6.	-3.	-4.	-5.	-6.	-10.	-9.	-9.
850 MB ENV VORTICITY	1.	2.	3.	4.	5.	6.	8.	9.	10.	10.	10.	9.
200 MB DIVERGENCE	0.	-1.	-1.	-2.	-3.	-3.	-3.	-3.	-3.	-3.	-3.	-3.
850-700 T ADVEC	0.	0.	0.	1.	1.	1.	1.	0.	0.	0.	1.	2.
RONAL STORM MOTION	0.	0.	0.	0.	-1.	-1.	-1.	-2.	-2.	-3.	-3.	-3.
STEERING LEVEL PRES	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
DAYS FROM CLIM. PEAK	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.	0.
GOES PREDICTORS	0.	0.	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.
OCEAN HEAT CONTENT	0.	0.	0.	0.	-1.	-1.	-1.	-1.	-1.	-1.	-1.	-1.
TOTAL CHANGE	0.	-1.	-2.	-4.	-6.	-4.	-4.	-6.	-8.	-13.	-13.	-13.

```

** 2011 ATLANTIC RI INDEX AL142012 NADINE 09/21/12 12 UTC **
12 HR PERSISTENCE (KT): 0.0 Range:45.0 to 30.0 Scaled/Wgtd Val: 0.6/ 2.0
850-200 MB SHEAR (KT): 10.2 Range:26.2 to 3.2 Scaled/Wgtd Val: 0.7/ 1.3
STD DEV OF IR BR TEMP: 999.0 Range:34.1 to 3.2 Scaled/Wgtd Val:999.0/999.0
D200 (10**7m-1) : -21.8 Range:-21.0 to 165.0 Scaled/Wgtd Val: 0.0/ 0.0
POT = MPI-UMAX (KT) : 32.8 Range:33.8 to 126.5 Scaled/Wgtd Val: 0.0/ 0.0
850-700 MB REL HUM (%): 55.0 Range:56.0 to 85.0 Scaled/Wgtd Val: 0.0/ 0.0
Heat content (KJ/cm2) : 0.0 Range: 0.0 to 130.0 Scaled/Wgtd Val: 0.0/ 0.0
% area w/pixels <=30 C: 999.0 Range: 17.0 to 100.0 Scaled/Wgtd Val:999.0/999.0

```

```

Prob of RI for 25 kt RI threshold- 999% is 999.0 times the sample mean(12.8%)
Prob of RI for 30 kt RI threshold- 999% is 999.0 times the sample mean( 8.4%)
Prob of RI for 35 kt RI threshold- 999% is 999.0 times the sample mean( 5.0%)
Prob of RI for 40 kt RI threshold- 999% is 999.0 times the sample mean( 3.4%)

```

```

** PROBABLY OF AT LEAST 1 SCNDRY EYEWL FORMTN EVENT AL142012 NADINE 09/21/2012 12 UTC **
TIME(HR) 0-12 12-24(0-24) 24-36(0-36) 36-48(0-48)
CLIMO(%) 0 (0) 0 (0) 0 (0) 0 (0) <-- PROB BASED ON INTENSITY ONLY
PROB(%) 0 (0) 0 (0) 0 (0) 0 (0) FC4 UNAVAIL...MODEL SKILL DEGRADED

```

Operational Products

HS3

Home > Data Products > Operational Products

Operational Products

- Pouch Analysis Products
- Satellite Products
- Surface Products
- Text Products
- Upper Air Products

Radar Products

- [Aruba/Curacao](#)
- [Bahamas](#)
- [Barbados](#)
- [Belize](#)
- [Bermuda](#)
- [Cuba](#)
- [Dominican Republic](#)
- [Guyana](#)
- [Jamaica](#)
- [Martinique](#)
- [Mexico](#)
- [Panama](#)
- [Trinidad&Tobago](#)
- [Puerto Rico/U.S. Virgin Islands](#)

[JPL HS3 Portal](#)

Links to Radars in Caribbean

Link to NASA Airborne Science Data Page

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 - CPL Data
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 - S-HIS Data

Operational Products Example: NRL Tropics

HS3

Home > Data Products > Operational Products

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- Pouch Analysis Products
- Radar Products
- Satellite Products
 - CIMSS
 - GOES
 - METEOSAT9
 - NRL Tropics
- Surface Products
- Text Products
- Upper Air Products

Radar Products

18LSANDY

- AMSUB
- SSMI
- SSMIS
- TRMM
- WINDSAT

10/24/12 1800Z 18L SANDY
10/24/12 2039Z F-15 85H
10/24/12 2015Z GOES-13 VIS

10/26/12 1200Z 18L SANDY
10/26/12 1509Z TRMM 85 PCT
10/26/12 1440Z GOES-13 VIS

10/28/12 1800Z 18L SANDY
10/28/12 1140Z WindSat COMPOSITE
10/28/12 1115Z GOES-13 IR

Organized by invest, disturbance, or tropical storm/hurricane name

Operational Products Example: CIMSS Tropical Overshooting Tops

HS3

Home > Data Products > Operational Products

Operational Products

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[Radar Products](#)

[Satellite Products](#)

[CIMSS](#)

[GOES](#)

[METEOSAT9](#)

[NRL Tropics](#)

[Surface Products](#)

[Text Products](#)

[Upper Air Products](#)

[Radar Products](#)

[850mb Vorticity](#)

[Brightness Temp](#)

[Cloud Height](#)

[Convergence](#)

[Divergence](#)

[Lower Level Winds](#)

[SAL](#)

[Shear](#)

[TOTs](#)

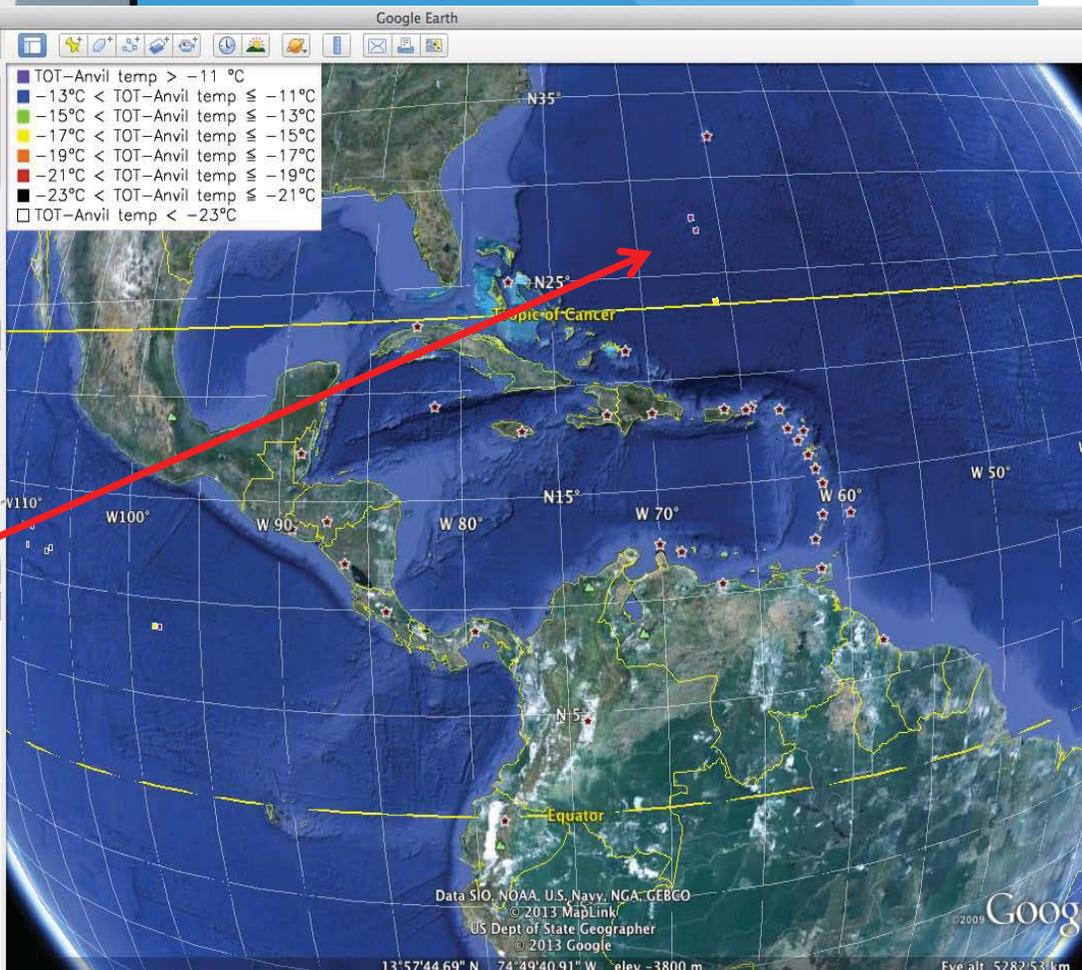
[Upper Level Winds](#)

Google Earth interface showing search and layers panels.

Search: Fly To, Find Businesses, Directions. Fly to e.g., San Francisco.

Places: Temporary Places, Tropical Overshooting Tops ...

Layers: Primary Database, Borders and Labels, Places, Photos, Roads, 3D Buildings, Ocean, Weather, Gallery, Global Awareness, More, Terrain.



Operational Products Example: CIMSS Brightness Temperatures

HS3

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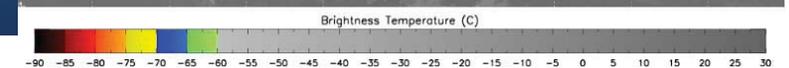
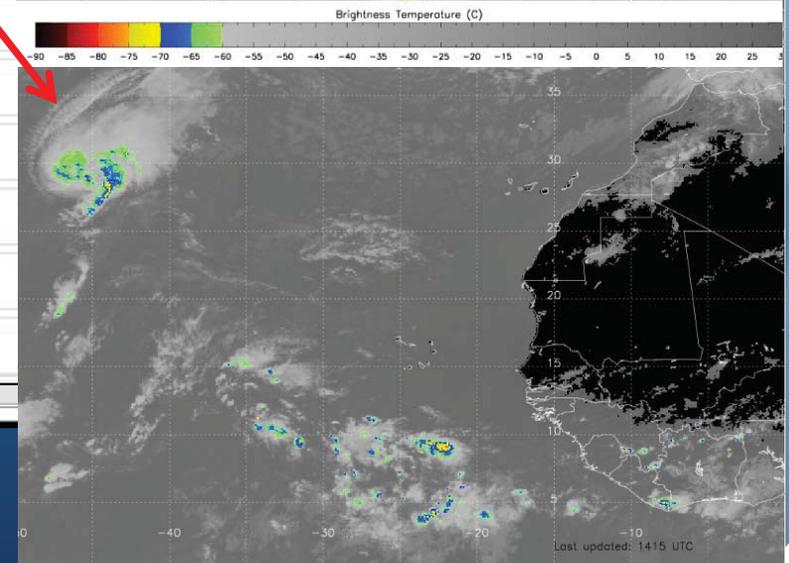
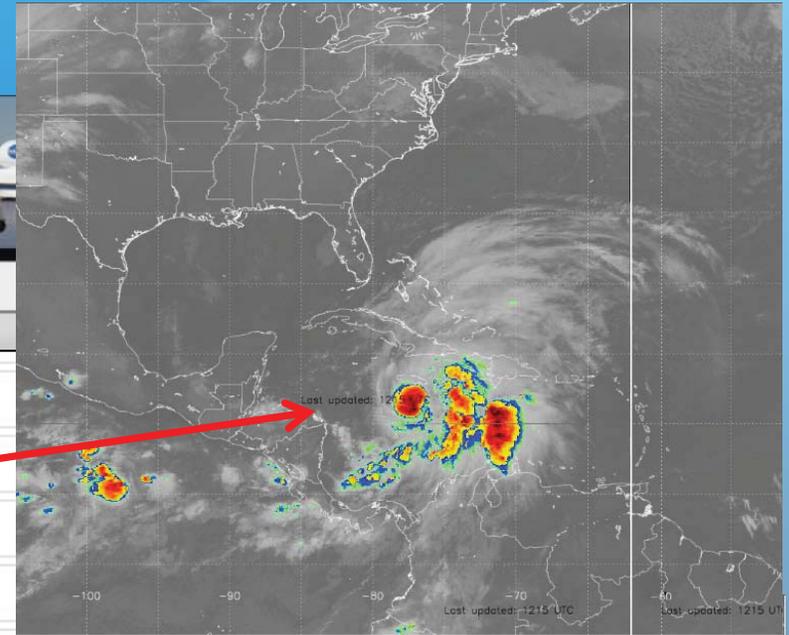
[Lower Level Winds](#)

[SAL](#)

[Shear](#)

[TOTs](#)

[Upper Level Winds](#)



Research Products

Links provided to individual instrument pages:

- Gave PI's more control over how to distribute Quicklooks and data
- Also provided solution for limited storage for ftp site hosted at GSFC

HS3 2012 Global Hawk Droponde Data: dataset description

EOL
NCAR Earth Observing Laboratory

Codicat Dataset | Contact | Projects | ORDER

HS3 2012 Global Hawk Droponde Data

Summary

This data set contains Global Hawk droponde data from six research flights of the unmanned NOAA/NASA Global Hawk (GH) aircraft conducted between September 7 and 26, 2012 for the Hurricane and Severe Storm Sentinel (HS3) project. The GH is equipped with an NCAR/NOAA droponde system specially designed for remote operation. A total of 337 quality controlled soundings are contained in the final HS3 droponde data set.

Data access

ORDER: data for delivery by FTP

Additional information

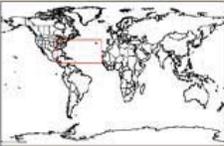
Related projects: HS3
Observational frequency: criteria
Spatial type: point
Categories: Upper Air
Platforms: Global Hawk, Miniature Droponde
Documentation: [readme_HS3-2012_GHdroponde.pdf](#) [958 KB]

Temporal coverage

Begin datetime: 2012-09-07 00:00:00, End datetime: 2012-09-27 23:59:59

Spatial coverage

Minimum latitude: 13.493430, Minimum longitude: -88.437500
Maximum latitude: 42.054820, Maximum longitude: -19.426530



Point of contact

NCAR/EOL
EOL Data Support
E-Mail address: codicat@ucar.edu
Homepage: <http://data.eol.ucar.edu/>

Cloud Physics Listar

Experiment Information:

The HS3 flights in September 2012 are the first in a series of science flights for HS3 using the NASA Global Hawk unmanned platforms. Two Global Hawk aircraft will be used to make measurements in and around hurricanes. One platform is outfitted with sensors to probe inside hurricanes. The other platform is outfitted to study the environment around hurricanes. Information on the HS3 mission, science objectives, and instrument payload can be found at the [HS3 web site](#). The HS3 flights are conducted out of Wallops Flight Facility in Wallops Island, Virginia.

CPL HS3 Flight Data

September 6, 2012
1st data segment (09:57:07 to 04:38:06 UTC)
2nd data segment (04:38:08 to 10:07:20 UTC)
3rd data segment (10:07:24 to 14:55:24 UTC)
September 11, 2012
1st data segment (11:27:56 to 17:43:54 UTC)
2nd data segment (17:43:06 to 23:13:55 UTC)
3rd data segment (23:13:57 to 06:13:57 UTC)
4th data segment (06:13:59 to 11:35:19 UTC)
September 14, 2012
1st data segment (15:05:53 to 21:50:54 UTC)
2nd data segment (21:50:56 to 02:35:55 UTC)
3rd data segment (02:35:55 to 07:50:56 UTC)
4th data segment (07:50:58 to 11:08:44 UTC)
September 19, 2012
1st data segment (19:02:08 to 01:01:37 UTC)
2nd data segment (01:01:39 to 07:01:38 UTC)
3rd data segment (07:01:40 to 13:08:04 UTC)
4th data segment (13:06:08 to 17:39:33 UTC)
September 22, 2012
1st data segment (18:09:18 to 00:51:13 UTC)
2nd data segment (00:51:15 to 06:06:15 UTC)
3rd data segment (06:06:17 to 11:38:17 UTC)
4th data segment (11:36:19 to 17:29:43 UTC)
September 26, 2012
1st data segment (18:52:10 to 18:06:55 UTC)
2nd data segment (18:07:10 to 00:06:56 UTC)
3rd data segment (00:07:10 to 05:06:57 UTC)
4th data segment (05:07:10 to 10:16:37 UTC)
October 6, 2012
1st data segment (13:21:52 to 19:19:43 UTC)
October 12, 2012
1st data segment (11:25:29 to 16:15:00 UTC)

Data Products

- Model Products
- Operational Products
- Droponde Data
- CPL Data
- HAMSR Data
- S-HIS Data

Microwave Science: HAMSR Campaign Data

Jet Propulsion Laboratory
California Institute of Technology

HAMSR Campaign Data

Secure raw files to data files collected by the High Altitude Microwave Sounding Radiometer (HAMSR) during aircraft campaigns.

Documentation

- HAMSR L1B Data Description Document (PDF, 206 KB)
- HAMSR L1B Data Description Document (PDF, 138 KB)

Software

- HAMSR L1B Data Reader
- HAMSR L1B Data Reader

HS3 2012 Data

L1B Data

- HAMSR_L1B_20121007105448_20121007120542_051.nc (938 MB)

L2 Data

- HAMSR_L2_20121007105448_20121007120542_051.nc (110 MB) [Validation Report (PDF, 1.48 MB)]

HS3 Dry Run Data

L1B Data

- HAMSR_L1B_20110907102915_20110907105422_051.nc (487 MB)
- HAMSR_L1B_20110907102915_20110907105422_051.nc (494 MB)

L2 Data

- HAMSR_L2_20110907102915_20110907105422_051.nc (164 MB) [Validation Report (PDF, 0.91 MB)]
- HAMSR_L2_20110907102915_20110907105422_051.nc (168 MB) [Validation Report (PDF, 0.78 MB)]

download@ssec.wisc.edu/sys/login/form/hs3_shis

SSEC Downloads

Hurricane and Severe Storm Sentinel

Registered Users Login

Email Address: Remember me:

[Login to download files](#)

New users

[Register](#) to view Hurricane and Severe Storm Sentinel files

Problems with the website? [Contact the webmaster](#)

data is not restricted. However, we do ask that everyone read and abide by the CPL data usage policy found here: [CPL data usage policy](#). In addition, please bear in mind that satellite teams have

What needs to happen to improve this year...

- Better communication with forecast team to provide/archive products that are used on a daily basis
- Archive of ground-based radar products
- Add in HIRAD and HIWRAP links when ready
- Add in NOAA products:
 - NHC Aircraft Reconnaissance Plan of the Day ([link](#))
 - NOAA HRD Updates
 - AOML SST analysis, TC Heat Potential
 - OPC Surface Analysis

What needs to happen to improve this year...

“Many hands make light work.” - *John Heywood*

If you have products to share, let us know. The process to get products to us is very easy:

- 1.) Open a terminal window: `ftp meso.gsfc.nasa.gov`
- 2.) Enter “hs3” when prompted for name.
- 3.) Enter password when prompted.

At the 2012 meeting, there was lots of demand for a PREDICT-like page for HS3. We have the architecture in place, but need contributions from the team!

Questions???

Comments???

Suggestions???