

N71-26621
NASA CR-118653

METEOROLOGICAL DATA CATALOG

for the

APPLICATIONS
TECHNOLOGY
SATELLITES

VOLUME V
(FINAL)

ATS I
SUMMARY

ATS III
DATA CATALOG



CASE FILE
COPY

GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

PREP Equipment 6/10/79

EP-79

Weather in Motion



National Aeronautics and Space Administration
Washington, D. C. 20546



NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
Earth Observations Program. Washington, D.C. 20546

WEATHER IN MOTION

To observe a most striking display of weather in motion on a typical day, hold the color picture between the index finger and thumb of each hand along the sides and midway down from the top of the picture. In the display, Africa is the bright orange area in the upper right, the United States is faintly visible in the upper left, the Greenland ice cap appears in the upper center, and South America stands out prominently in the lower central area. Tilt the top of the picture slowly towards you and then away through a small arc (about 20°). Each time the top moves toward you, cloud motions over the entire picture area are authentic and, alternatively, are reversed when the top of the picture is tilted away.

Note the spectacular spiral cloud band off the northwest coast of Africa. The cloud system is associated with a storm center (center of the spiral cloud bands) and the counterclockwise rotation of the clouds indicates that it is a cyclonic disturbance. The display also presents many other weather phenomena as revealed by cloud type, distribution, pattern, and evolution.

The display is a composite of 9 individual pictures taken at approximately 60 minute intervals by the NASA Multicolor Spin-Scan Cloud Camera on the Applications Technology Satellite, ATS - III. The total time interval presented in the display is about an 8-hour period. Thus, from weather satellite pictures taken at frequent intervals clouds and cloud motions can reveal useful information on weather systems on a global scale.

The weather in motion display was conceived and developed under a NASA sponsored contract by Walter A. Bohan.

XOGRAPH®
Printed in U.S.A.

The cover photograph shows a view of the earth on November 18, 1967 from the NASA ATS-III satellite which was "stationary" 22,000 miles over the equator above South America. This folder describes in detail the satellite, the camera, the display, the picture information, and the beneficial use of the satellite.

The camera experiment on ATS-III was proposed and conceived by investigators at The University of Wisconsin. Santa Barbara Research Center developed the flight model camera. The photographic animation of "Weather in Motion" was developed by the Walter A. Bohan Company, Park Ridge, Illinois. The entire experiment and display has been supported by the Earth Observations and ATS Programs of the National Aeronautics and Space Administration, Washington, D.C.

Weather in Motion

Space technology for the direct benefit of man in his everyday life has been part of NASA's mission ever since the agency was created in 1958.

The world's first meteorological satellite, TIROS-1, was placed in orbit April 1, 1960, and immediately showed the importance of cloud cover photos from space to weather forecasting. It was followed by more TIROS spacecraft as well as the more advanced Nimbus satellites to continue sensor experimentation for a National Operational Meteorological System.

Early in 1966, the first operational meteorological satellite was placed in orbit for the Weather Bureau bringing mankind a step closer to the time when accurate long range weather forecasts, based on advanced operational satellite-computer technology, will be routine. This goal is expected to be attained in the 1970's.

In late 1966, the ATS-1 spacecraft carrying a cloud cover camera was launched into geo-stationary orbit. Thus, for the first time, man had the opportunity to observe the atmosphere below on a continuous basis. Such observations have proven to be extremely important to the study of severe storms, their formation, and dissipation, through time lapse photography. The cover display is but one example of such photography. The ATS experimental program has demonstrated the usefulness of such techniques and serves as a stepping stone to the operational deployment of a similar system now being developed by NASA for the Environmental Science Services Administration.

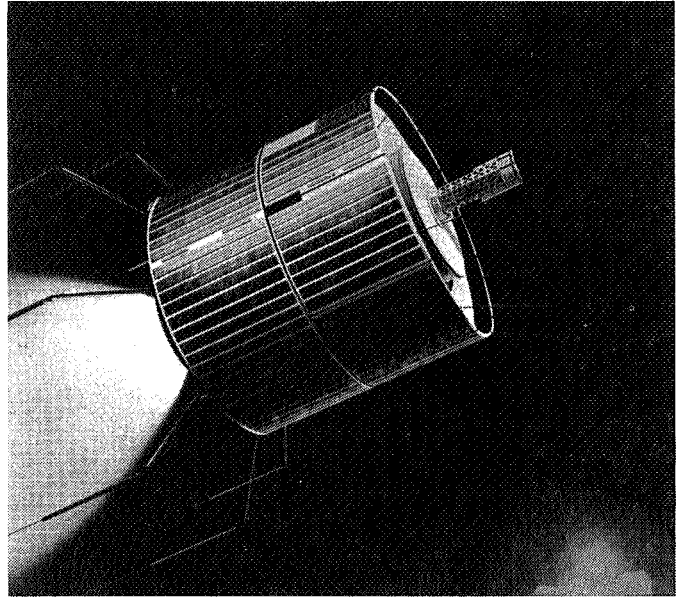
The Satellite

The ATS-III satellite was launched from Cape Kennedy, Florida on November 5, 1967 and is orbiting the earth at an altitude of 22,300 miles above the equator. At this altitude, the spacecraft requires precisely 24 hours to complete one revolution—as does the earth—thus, the satellite is stationary above a single location on the equator. The spacecraft has been over South America during much of its lifetime.

The entire satellite spins at 100 rpm—much like a gyroscope—so that it does not tumble in space. This rotation is extremely precise, as if the satellite were on perfect bearings. The spin axis of the satellite is very nearly parallel to the earth's axis of rotation.

More than 24,000 solar cells cover the outside of the drum shaped spacecraft and provide 175 watts of electrical power for the various experiments and for radio communication with the earth.

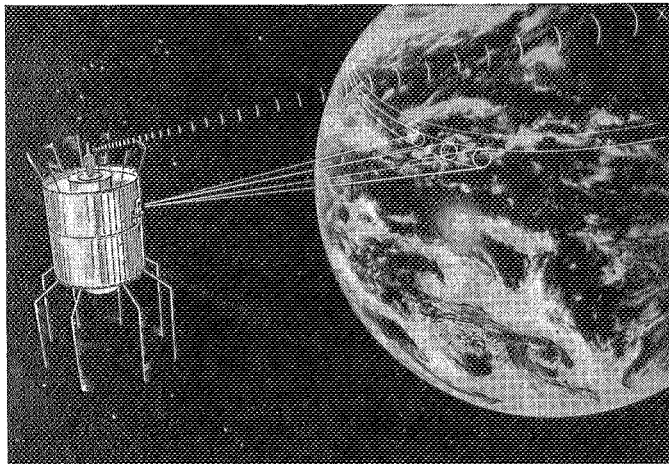
ATS-III carried eleven experiments into orbit; these concern communication, navigation, and meteorology. The Multicolor Spin-Scan Cloud Camera, discussed in this folder, is one of the experiments.



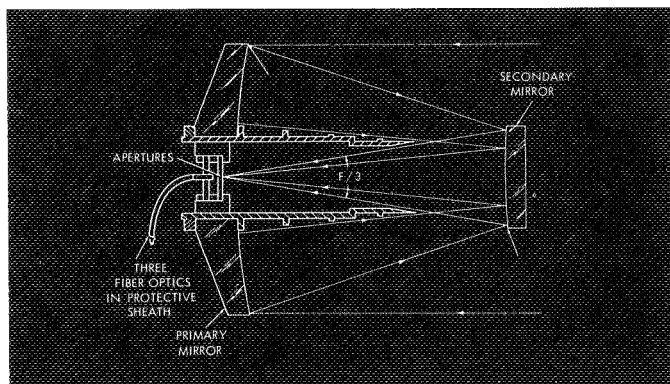
ATS-III Spacecraft

The Camera

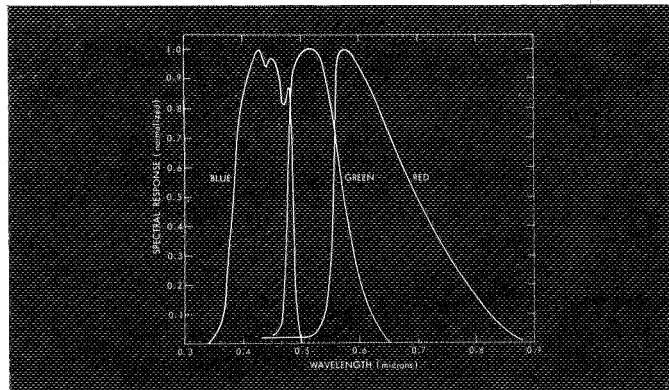
The "camera" is really a telescope which scans across the earth from west to east with each rotation of the satellite. A rectangular picture is produced by tilting the camera a small amount so that each new scan line is obtained adjacent to the previous line. The complete picture is made up of 2400 scan lines which are acquired in 24 minutes, because the rotation rate of the satellite is 100 revolutions per minute.



The extremely uniform rotation of the satellite in space allows the "camera" to obtain high precision pictures of the earth. Although the satellite is 22,300 miles above the earth, the camera can be used to measure the distance between land features to within a few miles.

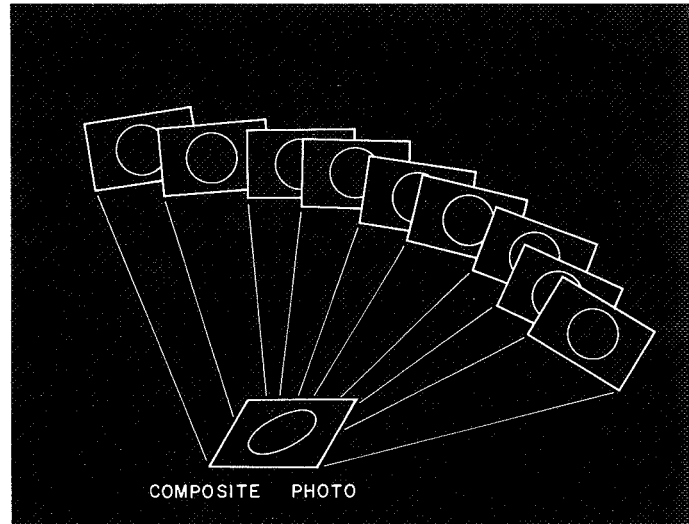


At the focus of the camera are 3 tiny pinhole apertures which allow the formation of separate blue, green, and red images. Color photos are generated at the ground station by combining these three-color images.



The Display

The display is a composite of 9 individual pictures taken on November 18, 1967 at approximately 60 minute intervals by the NASA Multicolor Spin-Scan Cloud Camera on the Applications Technology Satellite, ATS-III. The total time interval presented in the display is about an 8-hour period.

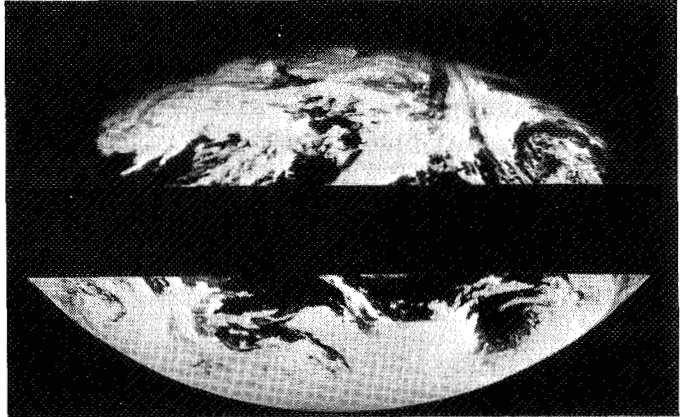


This photograph which provides the sensation of three-dimensional viewing is called a panoramic parallax stereogram. A horizontal screen is used to alternately place lines of the nine individual pictures on the final image. A lenticular screen is placed over the final print so that parallax allows viewing of alternate images, as the picture is tilted back and forth.

The Picture Information

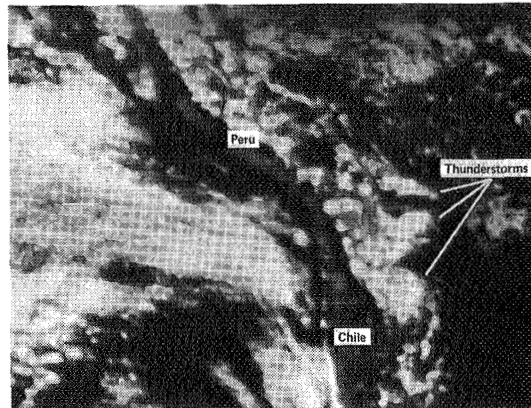
Earth Shadow

The South Polar region has continuous daylight at this time (November 18), but the North Polar region receives much less sunlight and the extreme northern region is continuously shaded from the sun's rays.



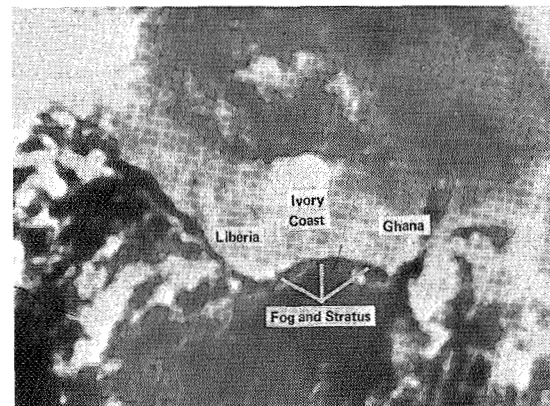
Cloud Formation

Thunderstorms which usually form during the daytime can be seen forming over the Andes Mountains of South America and over the extensive Amazon Basin.



Cloud Decay

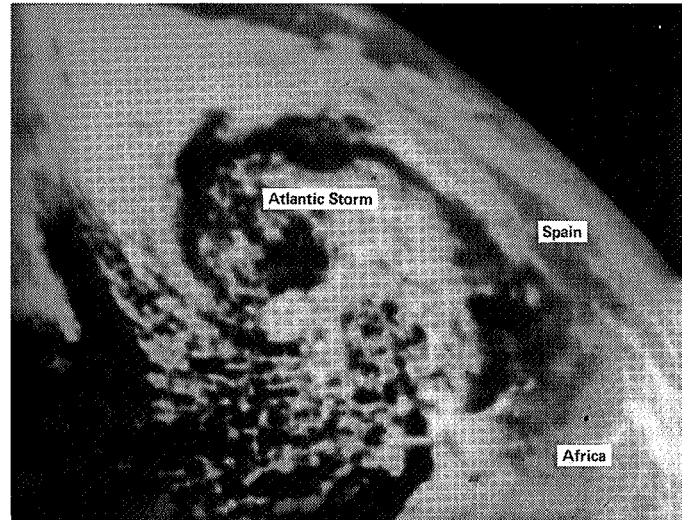
Fog along the coast of Chile, associated with cold Pacific Ocean water, disappears during the day. Similarly, fog and low stratus clouds along the African coasts of Liberia, Ivory Coast and Ghana dissipate during the daytime because of intense warming of air in the tropics. High clouds disappear over the equatorial Atlantic because of the descending and warming motion of the air near the equator.



Cloud Motion

Storm clouds move with circular motion in mid-latitudes of both hemispheres. An active storm can be seen in the northwest portion of the picture over New York State and a dissipating storm can be seen in the northeast portion of the picture just off the coast of Spain. Note that these storms rotate in opposite directions to the storm near the southern tip of Chile and to the young storm south of the bulge of Brazil. Meteorologists are learning from these time series pictures that clouds are tied to these *large* scale motions of the atmosphere.

The low, cumuliform clouds which move westward in the tropics are drifting with the easterly "trade winds." Some high cirrus clouds are above the "trade wind" region and are carried north-eastward in "jet streams" over the coast of West Africa. Large quantities of heat and moisture are carried poleward from the tropics by these "jet streams."



Sun Glitter

The bright area which approaches the coast of Brazil is caused by mirror like reflections of the sun's image from the ocean surface. The size of the area can be used to measure the wind speed over the ocean surface.

The Benefits

Severe Storm Detection

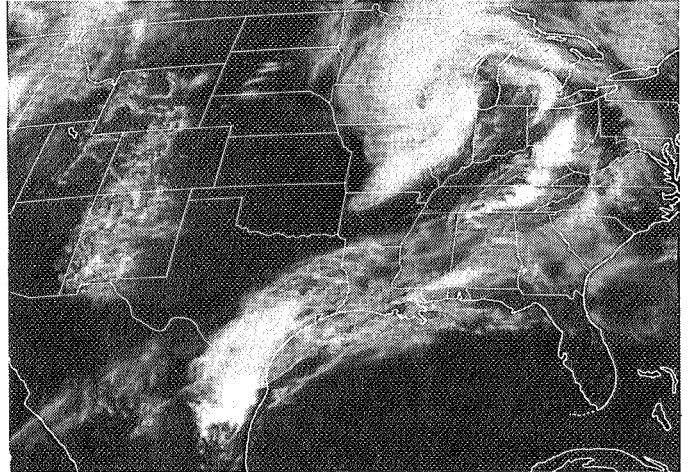
The use of earth synchronous satellites gives meteorologist a valuable capability for pinpointing and tracking both hurricanes and severe storms which form tornadoes. A dramatic illustration of this capability is shown by the cloud structure over Kentucky and Tennessee. These cellular clouds are the actual blow-off anvil tops of severe thunderstorms which generated many tornadoes in those two States at that time. Thus, pictures such as this give meteorologist a valuable tool for "nowcasting" as well as forecasting.

Remote Sensing of Atmospheric Winds

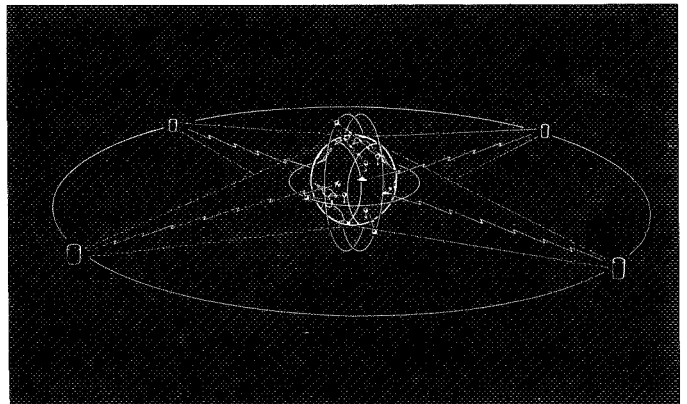
The motion of the clouds is clearly visible by tilting the picture to obtain a time sequence of the pictures. By using display techniques with greater resolution it is possible to measure cloud displacements with sufficient precision to infer atmospheric winds from the displacements. One series of pictures, such as these, can provide winds over 1/3 of the earth's surface—which is a fantastic increase over the present capability of determining winds by balloon.

Global Measurements

With four synchronous satellites properly spaced around the earth, it is possible to monitor nearly all of the earth's cloud cover all of the time. Only small areas in the polar regions are not in view of the satellites. This unique observing capability will be implemented in the mid-1970's to serve as an important component of an international program to make detailed, global observations of the atmosphere.



ATS-III photo of cloud systems over the United States



THE APPLICATIONS TECHNOLOGY SATELLITES
METEOROLOGICAL DATA CATALOG
VOLUME V (FINAL)
1 August 1969 through 25 May 1970

Prepared by
Allied Research Associates, Inc.
Concord, Massachusetts

October 1970

ATS PROJECT
GODDARD SPACE FLIGHT CENTER
GREENBELT, MARYLAND

FOREWORD

This is the fifth and final catalog of a series prepared under the provisions of contract NAS 5-10343 for the Goddard Space Flight Center. Responsibility for the ATS-I and ATS-III satellites passed to the National Oceanographic and Atmospheric Administration (NOAA) (formerly ESSA) on 1 April 1969 and 26 May 1970, respectively.

Part I of the catalog is concerned only with summarizing the operations of ATS-I during the nearly 28 months between launch on 7 December 1966 and the transfer of responsibility on 1 April 1969. Part II documents ATS-III data from 1 August 1969, the end of the last catalog period, to 25 May 1970 and, in addition, summarizes the total ATS-III period of operation.

Don V. Fordyce
ATS A-E Project Manager
Goddard Space Flight Center

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PART I
SUMMARY OF DATA ACQUIRED
FROM ATS-I

7 December 1966
through
31 March 1969

SUMMARY OF DATA ACQUIRED FROM ATS-I

The ATS-I satellite was launched on 7 December 1966 from the Eastern Test Range, Cape Kennedy, Florida. Initial earth-synchronous orbit was attained at an altitude of 19756 nautical miles. The spacecraft drifted to a nominal position over the equator at 151 degrees West longitude and has since remained close to this position and altitude.

During the 28 months between launch and the 1 April 1969 transfer of responsibility, the ATS-I Spin Scan Camera System (SSCC) provided 5448 pictures of which more than 93 percent were of archival quality. Data were acquired on 643 of 822 days during the period (the data archival period began 1 January 1967). A combination of these figures produces a final average of nearly 8 archival quality pictures for each day that the SSCC acquired data.

Production of digital enlargements (4X) of specific areas of interest began on 17 June 1968 and continued through March 1969. During this period, 1379 archival-quality digitized pictures were produced.

The following is a reel listing of available ATS-I imagery. The new Asheville address for ordering these data is: The National Climatic Center, NOAA, Federal Building, Asheville, North Carolina 28801. A new ATS-I and -III price list for reel and frame data is given in Section 1, Part II of this catalog.

ATS-I Archival Film Reel Listing

Reel No.	1	1 January through 20 January 1967
	2	21 January through 17 February 1967
	3	18 February through 11 March 1967
	4	12 March through 4 April 1967
	5	5 April through 17 April 1967
	6	18 April through 22 April 1967
	7	23 April through 30 April 1967
	8	1 May through 31 May 1967
	9	1 June through 30 June 1967
	10	1 July through 4 August 1967
	11	5 August through 10 September 1967
	12	11 September through 6 October 1967
	13	7 October through 18 November 1967
	14	19 November through 30 December 1967
	15	1 January through 28 February 1968
	16	29 February through 19 April 1968
	17	20 April through 9 June 1968
	18	10 June through 7 August 1968
	19	8 August through 22 October 1968
	20	23 October through 31 December 1968
	21	3 January through 12 March 1969
	22	18 March through 31 March 1969

Digital Display Reel No.
(Sectional 4X Enlargements only)

	1	17 June through 23 August 1968
	2	24 August through picture 4M, 14 October 1968
	3	Picture 6A, 14 October through 18 October 1968
	4	19 October through 29 October 1968
	5	22 January through 3 February 1969
	6	4 February through 12 March 1969

PART II

THE ATS-III METEOROLOGICAL
DATA CATALOG

1 August 1969
through
25 May 1970

SECTION 1

INTRODUCTION

ATS-III obtained 2183 black and white Multicolor Spin Scan Cloud Camera (MSSCC) photographs during the catalog period of which 2162 (more than 99%) were usable. The Image Dissector Camera System (IDCS) was operated only often enough to verify the continued functioning (life test) of the instrument and produced but 41 usable pictures. The IDCS data, therefore, are not catalogued for this period.

From launch through 25 May 1970, the satellite produced 8466 usable MSSCC photographs and 1286 archival-quality IDCS photographs.

MSSCC meteorological data were not recorded on the following dates, due primarily to spacecraft scheduling complexities:

August 1969	1, 5, 9, 12-14, 28-31
September 1969	1-8, 12, 14, 18, 19, 25, 26
October 1969	2, 3, 5, 6, 9, 10, 16-18, 23, 24, 26, 29-31
November 1969	1, 2, 5-7, 13, 16-18
December 1969	2-13, 16, 18, 19, 23, 25-27
January 1970	1-3, 8, 9, 14-17, 21-24, 29, 30
February 1970	1, 5-7, 12, 13, 19-21, 25-27
March 1970	5, 6, 12, 13, 19-21, 26, 27, 29, 31
April 1970	1-10, 12, 16, 17, 21, 23-25
May 1970	1, 6-8, 15, 19-23

The ATS-III satellite has performed many orbital maneuvers in order to meet different experiment requirements. Table 1-1 lists these maneuvers. Care must be exercised in selecting geographic grids for use with pictures taken during maneuver periods. Reference to the Sub-Satellite Points in the daily data listings will aid in the selection.

Table 1-1
Spacecraft Maneuvers

<u>Date</u>	<u>Time (Z)</u>	<u>Purpose</u>
25 August 1969	0930	E-W station keeping
26 September 1969	0930	E-W station keeping
30 October 1969	0550	Stop eastward drift
22 December 1969	2145	E-W station keeping
2 January 1970	2300	E-W station keeping
18 February 1970	0755	Attitude correction
18 February 1970	1500	E-W station keeping
2 March 1970	1500	E-W station keeping
5 March 1970	2300	E-W station keeping
29 April 1970	2100	Attitude correction
30 April 1970	2316	Attitude correction

The manual matching of an overlay grid with the pictures to determine gridding accuracies continued. Accuracies for the MSSCC photographs are on the order of 5 to 10 nautical miles in areas near the picture center and near 30 nautical miles overall.

Production of digital 4X enlargements of MSSCC photographs has continued since its initiation in April 1968. Date, sequence numbers and areas enlarged are listed in Table 1-2. Areas are labelled alphabetically from A through Z (I and O are not used). Pages I-7 through I-20 of Volume III, the ATS Data Catalog, outline methods of area selection.

Section 4 contains daily data listings for MSSCC photographs only and for each day displays a "picture of the day." Where digitized enlargements were made, the areas are stippled onto the daily pictures.

Table 1-2
 ATS-III MSSCC Digitally Enlarged Photographic Data
 (sector enlargements in capital letters are 4X, small letters denote 2X)

<u>Date</u>	<u>Picture Number</u>	<u>Sectors Enlarged</u>
15 August 1969	11-52	A
	1-43	B
16 August 1969	13-55	A
	2-32, 34-46	B
17 August 1969	13-38, 40-56	A
	3-7, 10-38, 40-48	B
18 August 1969	14-17, 19-20, 22-25, 27-33, 35-51	A
	3-17, 19, 20, 23-25, 27-35, 37-43	B
19 August 1969	10, 11, 13-50	A
	5-50	B
20 August 1969	14-20, 22-34, 36-51	A
	7-20, 22-29, 31-51	B
21 August 1969	9, 10, 12-23, 25-35, 37-40, 42-52	A
	9-23, 25-34, 36-40, 42-53	B
22 August 1969	13-15, 17-34, 36-46, 48-54	A
	7-17, 19-46, 48-54	B
9 September 1969	4-11	A
	1-11	B
10 September 1969	10-16	A
	1-6, 8-16	B
11 September 1969	1, 2	A
13 September 1969	1, 3-18	A
15 September 1969	1-9, 12-32	A
	1-9, 11-28, 30-34	B
16 September 1969	4-7, 10-25, 27-33, 35-39, 41, 42	A
	2, 4-7, 10-25, 27-39, 41-47	B

Table 1-2 (Continued)

<u>Date</u>	<u>Picture Number</u>	<u>Sectors Enlarged</u>
17 September 1969	4-45 2-26, 28-30, 32-48	A B
22 September 1969	1-7	A
24 September 1969	3, 4	A
27 September 1969	3-5, 7-14	A
29 September 1969	1-6, 9, 11-23	A
30 September 1969	3-12	A
1 October 1969	4-40	A
21 October 1969	15-17, 19-24, 26-32	A
22 October 1969	12, 13, 20, 22-27	A
4 November 1969	1, 3-9 2-7, 9 1-8	a, b c d
8 November 1969	1, 4-6, 8, 9 1, 4, 6, 9	a, c, d b
9 November 1969	4-9	a-d
14 November 1969	1-7	a-d
15 November 1969	2-8	a-d
16 November 1969	1-8	a-d
17 November 1969	1-9 1-8 1-3, 5-9 2-9	a b c d
18 November 1969	1-8	a-d

Table 1-2 (Continued)

<u>Date</u>	<u>Picture Number</u>	<u>Sectors Enlarged</u>
19 November 1969	1-8	a, c
	1-3, 5-8	b, d
20 November 1969	1, 3, 4	a-d
	2	a-c
	7	c
	8	a, b
21 November 1969	1, 6	a-d
	2, 3	c
	4	a, c, d
	5	a, b
	8	c, d
22 November 1969	4, 6	d
	5, 6	c
23 November 1969	1	c
	2, 3, 5	a, b
	4, 6	a-c
10 February 1970	1-10, 12-14	A
3 March 1970	2-15	a
7 March 1970	11-21	A
17 March 1970	1-34	A
18 March 1970	1-15	A
25 March 1970	1-20, 22-25	A
28 March 1970	1-6, 9-13, 15-52	A
1 April 1970	1-31	A
22 April 1970	1, 3-12, 14-43	A
28 April 1970	1-9	A
	1-10	B

Table 1-2 (Continued)

<u>Date</u>	<u>Picture Number</u>	<u>Sectors Enlarged</u>
9 May 1970	1-56	A
10 May 1970	1-4	A
11 May 1970	2-56	A
12 May 1970	1-5	A

ATS-III meteorological data are available in time lapse motion picture and film loop format.

The following 16 mm silent NASA films are available at cost through:

Byron Motion Pictures, Inc.
 65 K Street, N.E.
 Washington, D.C. 20002
 Attn: National Audiovisual Center,
 Depository Branch

16 mm Silent Films

NASA Release No. 68-713. Approximately 400 feet of full color data depicts cloud motions through time-lapse photography from data of 18 November 1967 when the satellite was positioned near 49° W longitude.

NASA Index No. 04112. Approximately 400 feet of black and white cloud data with superposed colored geographic grids and time-correlated tornado locations depicting development of tornadic situations over the Eastern U.S. on 19 April 1968. At this time the satellite was near 84° W longitude.

NASA Index No. 04113. Similar to NASA Index No. 04112 but depicts time and location-correlated tornadic and severe hail storm conditions over the Eastern U.S. on 23 April 1968.

NASA Release No. 69-812. Approximately 400 feet of black and white data with superposed color annotation depicting the lives of Hurricanes Abby and Brenda and the birth of Hurricane Candy, all in 1968.

(NEW) NASA Release No. 70-895. "ATS-III Views the March 7, 1970 Solar Eclipse." Approximately 46 feet of 16 mm silent, color, time-lapse movie made from

a series of pictures recorded by the NASA ATS-III Multicolor Spin Scan Cloud Camera experiment on March 7, 1970. The film covers a time span from 1430Z to 1933Z and shows the solar eclipse umbra as it moved from the South Pacific, across Mexico, up the East Coast of the United States, and off the earth's horizon below Iceland. A 70-minute gap in the coverage occurred in the series as the umbra moved across the Gulf of Mexico.

The red channel in the on-board camera is inactive. The color pictures were created through an innovative pseudo-color technique in the ground recording system in which the green and blue channel data from the spacecraft are integrated with arbitrary levels of red.

(NEW) NASA Release No. 70-903. "Lubbock Tornadoes of May 11, 1970." Approximately 310 feet of black and white time-lapse motion picture (using 4X and 8X ATS pictures) showing the cloud development associated with the destructive Lubbock tornadoes and the Salina, Kansas storms of the same date. Radar echoes are shown both alone and superposed upon the cloud imagery. Color aerial photographs of Lubbock damage and storm-track data are included.

ATS-III films, prepared at and available through the University of Wisconsin, are listed in Table 1-3. Address orders to:

University of Wisconsin
 Space Science and Engineering Center
 Photo Lab
 1225 West Dayton Street
 Madison, Wisconsin 53715

Table 1-3
 ATS-III Films Available at the University of Wisconsin

FILM LOOPS

Complete Days (CD)

CD-C-1	18 November 1967; 35 pictures, 30 minute intervals (Color) \$5.00
CD-4.22-23.8	22-23 April 1968; 95 pictures, approximately 10 minute intervals (Black and White) \$5.00

Table 1-3 (Continued)

CLOSE-UP

ATS-III-ST5-CU1 Tornado Watch 19 April 1968; 37 pictures, 10 minute intervals \$4.00

MOVIES

"Weather in Motion and in Color" - consists of complete day (November 18, 1967) with selected close-ups, 400 ft. \$75.00

"Hurricane ABBY" - consists of data from June 3-6, 1968 showing the entire earth with close-ups of the hurricane. Approximately 400 ft. \$50.00

ATS MSSCC and IDCS black and white photographic data in archival format are available as indicated in Table 1-4, from the National Climatic Center, NOAA, Federal Building, Asheville, North Carolina 28801. Prices are as follows:

Fixed Fee Schedule

1. Duplicate film copy, ATS satellite photography, 125-foot reel, 5 inches wide, positive or negative, including appropriate grid(s):

(a) Silver	Per reel	\$37.50
(b) Diazo	Per reel	20.00

2. Paper copy, ATS satellite photography, from 125-foot reel, 5 inches wide:

(a) Contact print, 125-foot reel	Per reel	\$23.00
(b) Contact print, single frame	Per frame	1.00
(c) Enlargement, 8" x 10"	Per Frame	1.50

Table 1-4
ATS-III Archival Reel Listings

MSSCC Analog Display Reel No.	
1	1 April through 18 April 1968
2	19 April through 29 April 1968
3	30 April through 16 May 1968
4	17 May through 30 May 1968
5	31 May through 20 June 1968

Table 1-4 (Continued)

Reel No.	6	21 June through 1 July 1968 (No data 2 July 1968)
	7	3 July through 19 July 1968 (No data 20-22 July 1968)
	8	23 July through 12 August 1968
	9	13 August through 17 September 1968
	10	18 September through 16 November 1968 (No data 17-24 November 1968)
	11	25 November 1968 through 8 March 1969
	12	9 March through 13 April 1969 (No data 14, 15 April 1969)
	13	16 April through 3 May 1969
	14	4 May through 15 May 1969
	15	16 May through 22 May 1969
	16	23 May through 11 June 1969
	17	12 June through 19 June 1969
	18	20 June through 28 June 1969
	19	29 June through 8 July 1969 (No data 9 July 1969)
	20	10 July through 14 July 1969
	21	15 July through 23 July 1969
	22	24 July through 30 July 1969
	23	31 July through 16 August 1969
	24	17 August through 21 August 1969
	25	22 August through 16 September 1969
	26	17 September through 14 October 1969

Table 1-4 (Continued)

Reel No.	27	15 October through 18 November 1969
	28	19 November 1969 through 5 January 1970
	29	6 January through 8 February 1970
	30	9 February through 7 March 1970 (No data 8 March 1970)
	31	9 March through 1 April 1970 (No data 2-10 April 1970)
	32	11 April through 9 May 1970
	33	10 May through 25 May 1970 (Final)

MSSCC
 Digital Display Reel No.
 (2X and 4X sector
 enlargements only)

	1	3 April through 22 April 1968
	2	23 April through 29 May 1968
	3	30 May through 18 June 1968 (No data 19 June 1968)
	4	20 June through 22 June 1968
	5	23 June through 8 August 1968
	6	9 August through 14 October 1968
	7	15 October and 16 October 1968
	8	17 October through Picture 13N, 19 October 1968
	9	Picture 14A, 19 October through 26 December 1968 (No data 27 December 1968 through 22 January 1969)
	10	23 January through Picture 40B, 4 April 1969
	11	Picture 41A, 4 April through Picture 20E, 6 May 1969
	12	Picture 21A, 6 May through 8 May 1969
	13	9 May through 13 May 1969
	14	14 May through 16 May 1969

Table 1-4 (Continued)

Reel No.	15	17 May through 19 May 1969
	16	20 May through 22 May 1969
	17	23 May through 31 July 1969 (No data 1-14 August 1969)
	18	15 August through 17 August 1969
	19	18 August through 20 August 1969
	20	21 August through 15 September 1969
	21	16 September through 1 October 1969 (No data 2-20 October 1969)
	22	21 October through 18 November 1969
	23	19 November 1969 through 28 March 1970 (No data 29-31 March 1970)
	24	1 April through 12 May 1970 (Final) (No data 13-25 May 1970)
IDCS Reel No.	1	1 March through 31 March 1968 (No data 1 April 1968)
	2	2 April through 31 May 1968 (No data 1, 2 June 1968)
	3	3 June through 12 December 1968 (No data 13-15 December 1968)
	4	16 December 1968 through 23 May 1969 (No data archived after 23 May 1969)



SECTION 2

ATS DATA APPLICATION EXAMPLES

This catalog section presents examples of time sequence observations obtained from the ATS imagery.

The ATS, from their orbiting height of approximately 36,000 Km, maintain a fixed position in space relative to the earth. From this vantage point the ATS MSSCC and IDCS cameras can continuously monitor specific geographic areas. Therefore, it is possible to develop time-sequence picture series showing changes in various features in the earth's atmosphere or at the earth's surface.

Time sequence films have been produced and used to study cloud motions, atmospheric circulation, and severe weather phenomena (hurricanes and tornadoes). (Section 1 contains a list of some of these films.) From analysis of the films we have gained new knowledge about our atmosphere.

While the prime use and benefit of ATS sequential imagery is for meteorology, it also has potential non-meteorological applications.

Changes of dark areas within oceanographic sunglint patterns have been observed in the ATS imagery. These dark areas apparently represent relatively calm surface conditions within areas of higher sea states and occur in regions of potential upwelling. Thus, these sightings may be of importance to the fishing industry.

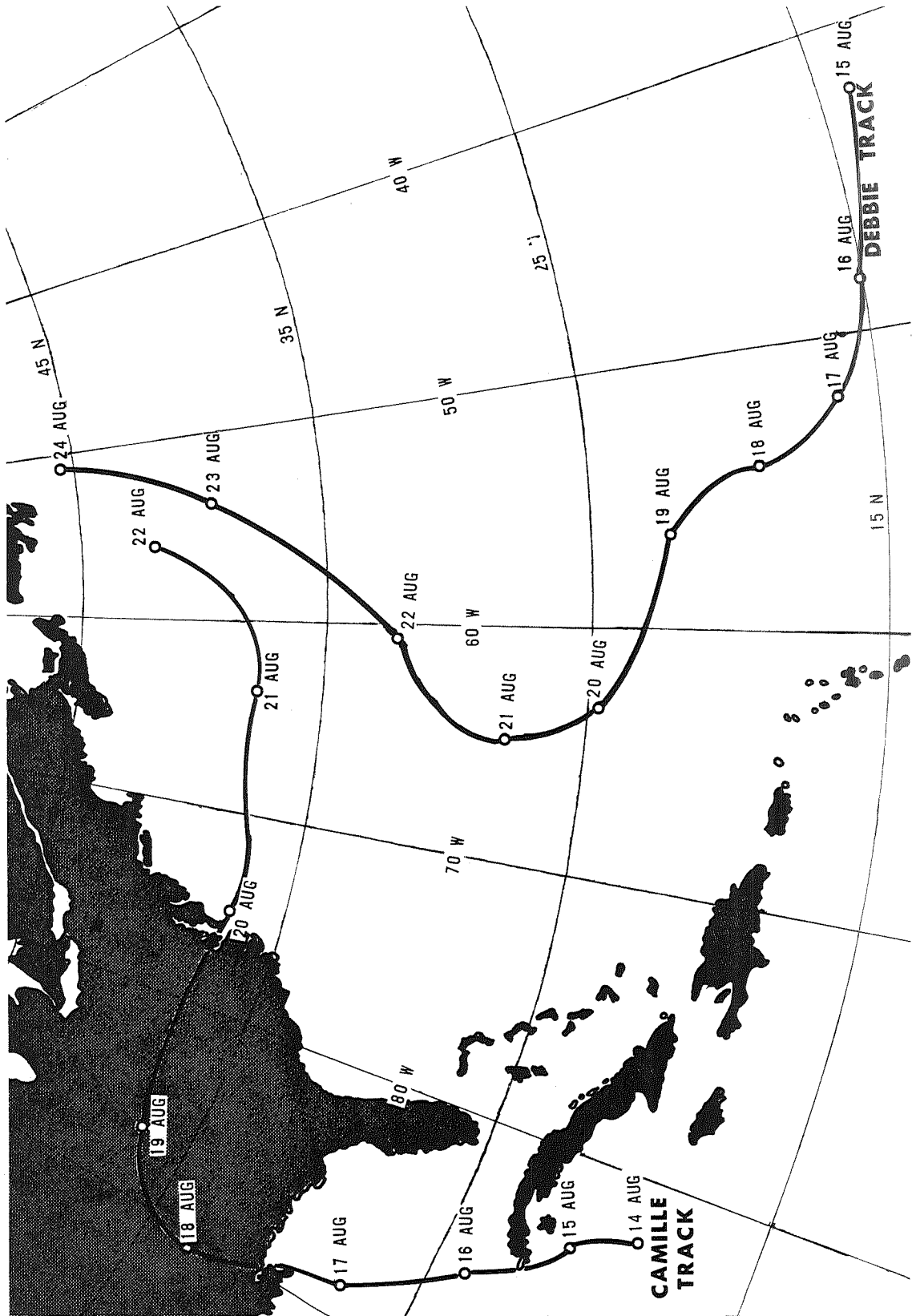
Interesting, and potentially useful, time sequence series of snow cover changes in the United States and vegetation reflectance changes in North Africa have been observed.

An unusual time series was recorded of the 7 March 1970 solar eclipse umbra shadow as it moved across Mexico and the United States. A picture sequence of this event is displayed in Section 3 after the 7 March picture of the day.

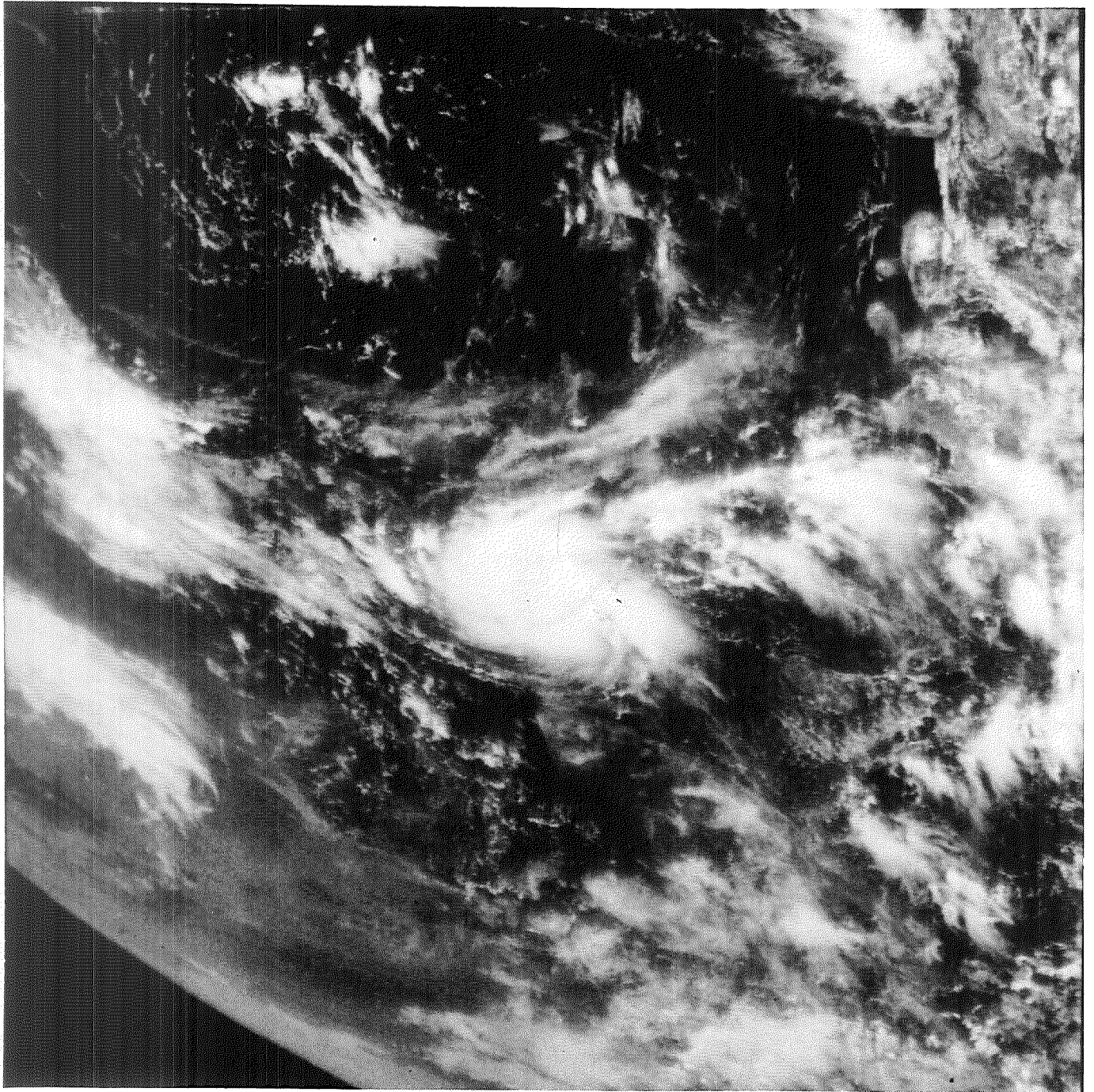
ATS imagery has tracked dust storms that have originated in the Sahara and moved as far eastward as the Caribbean Sea.

The following examples show both time sequences of some of the above mentioned non-meteorological applications and digital enlargements of the Hurricane Camille and Debbie coverage.

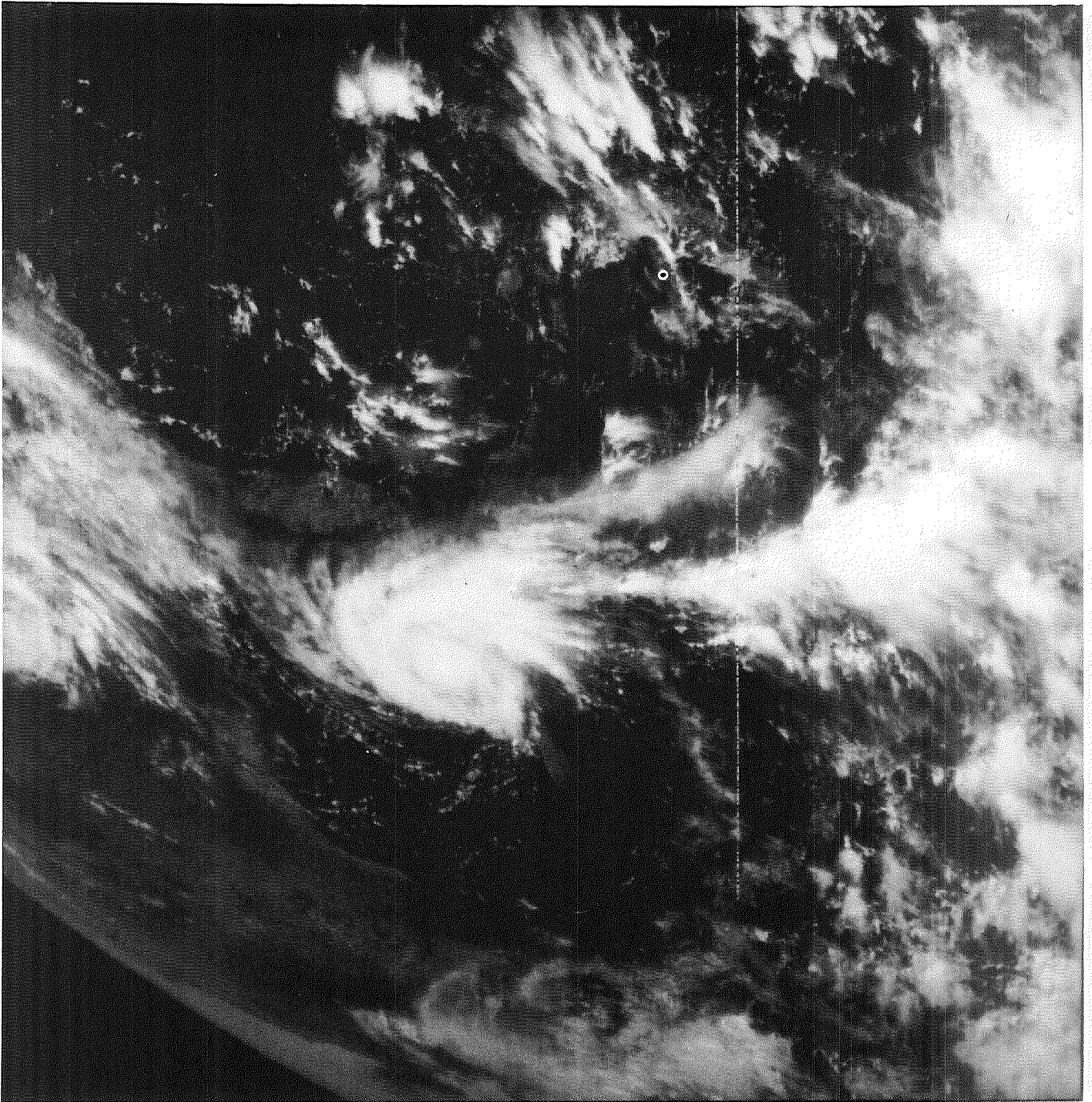




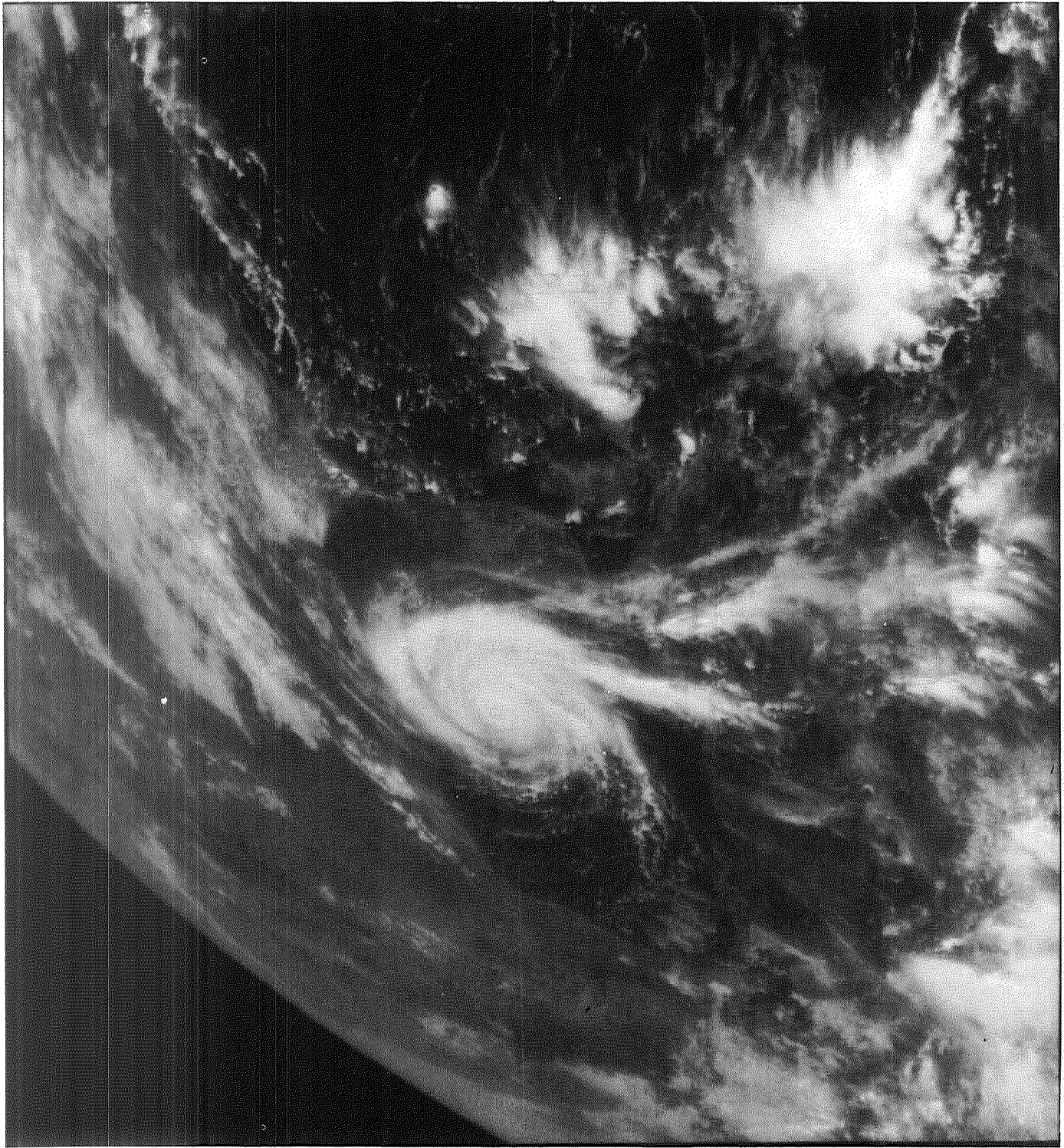
TRACKS OF HURRICANES CAMILLE AND DEBBIE DURING AUGUST 1969



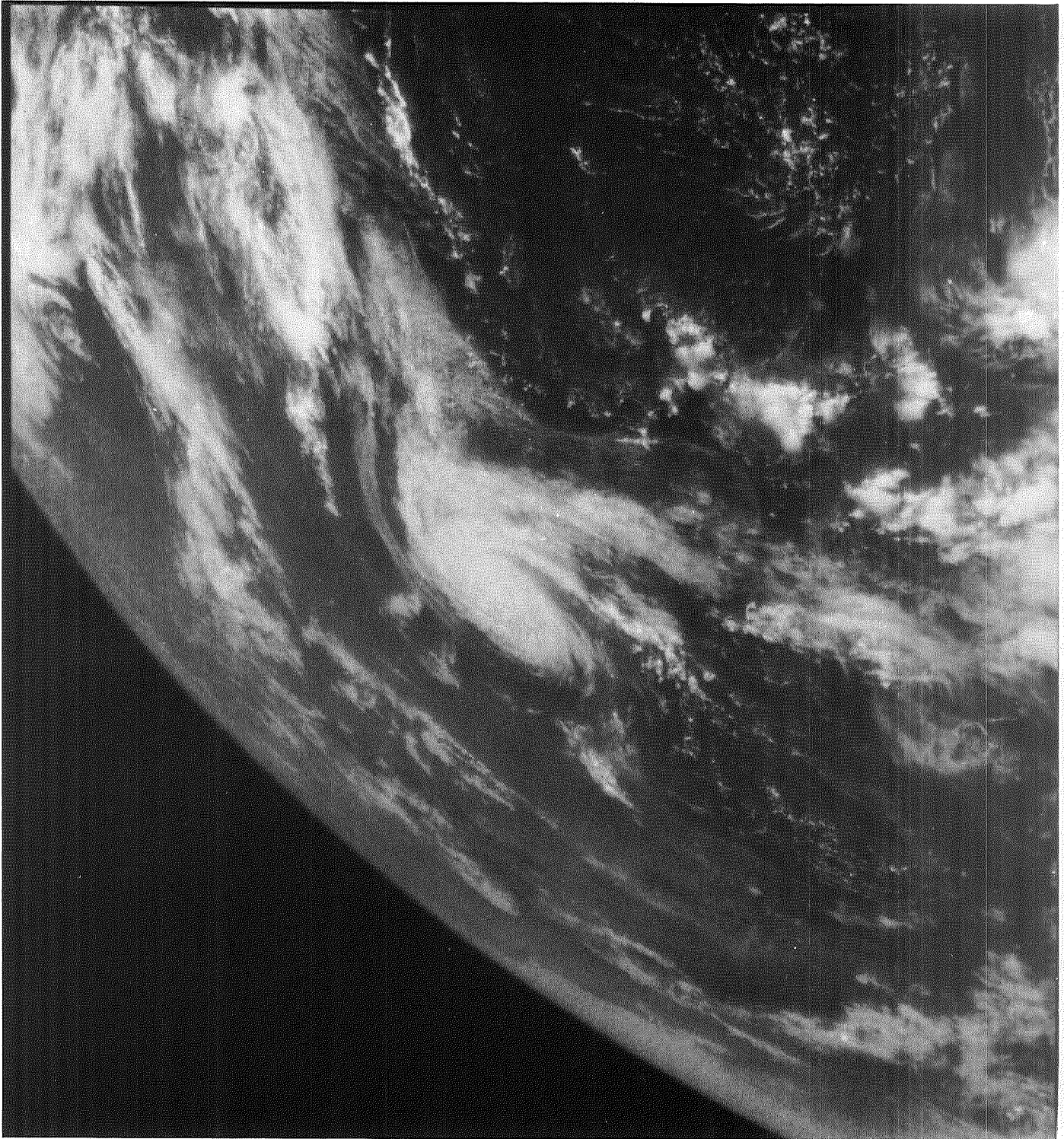
HURRICANE CAMILLE 15 AUGUST 1969



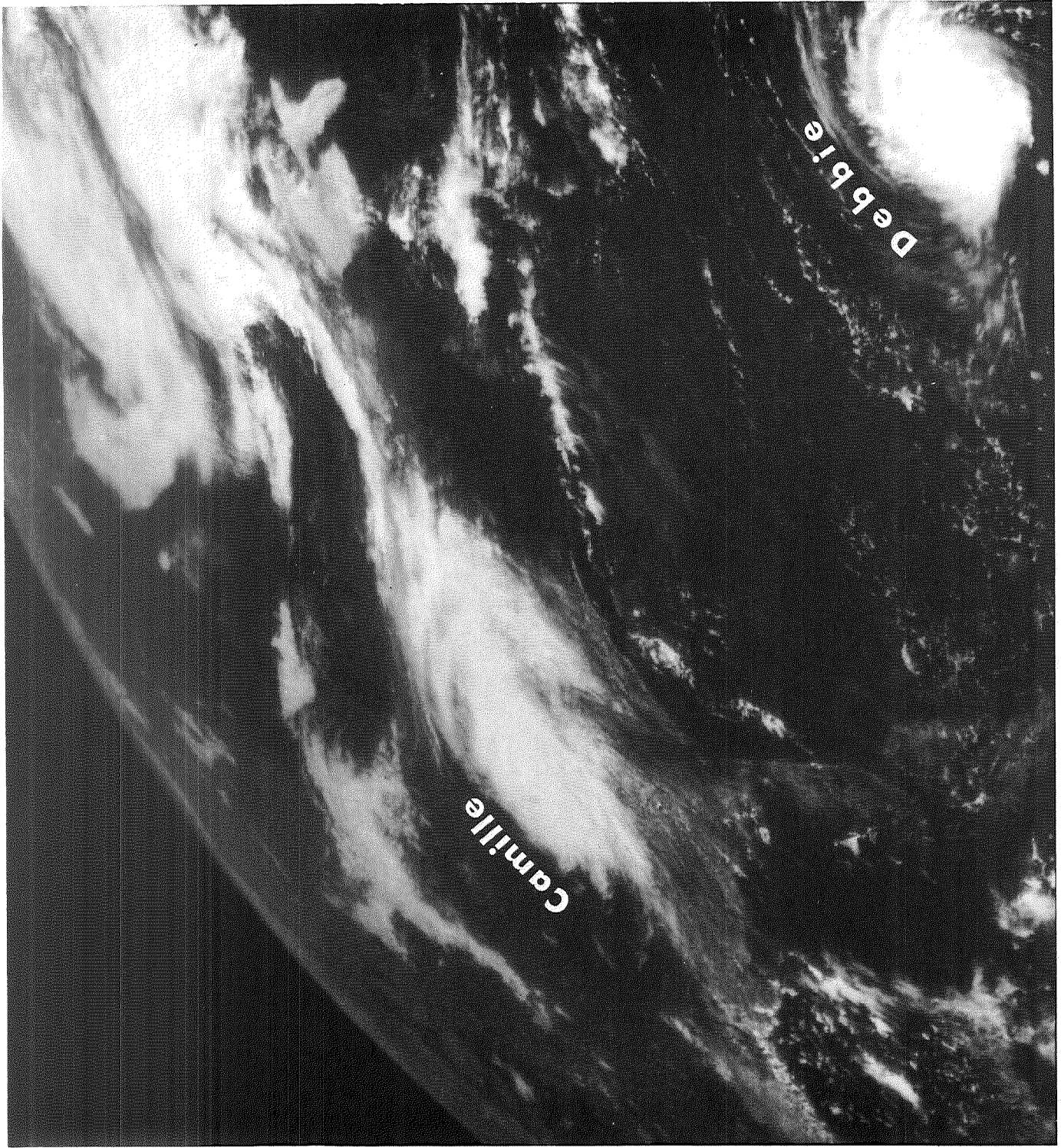
HURRICANE CAMILLE 16 AUGUST 1969



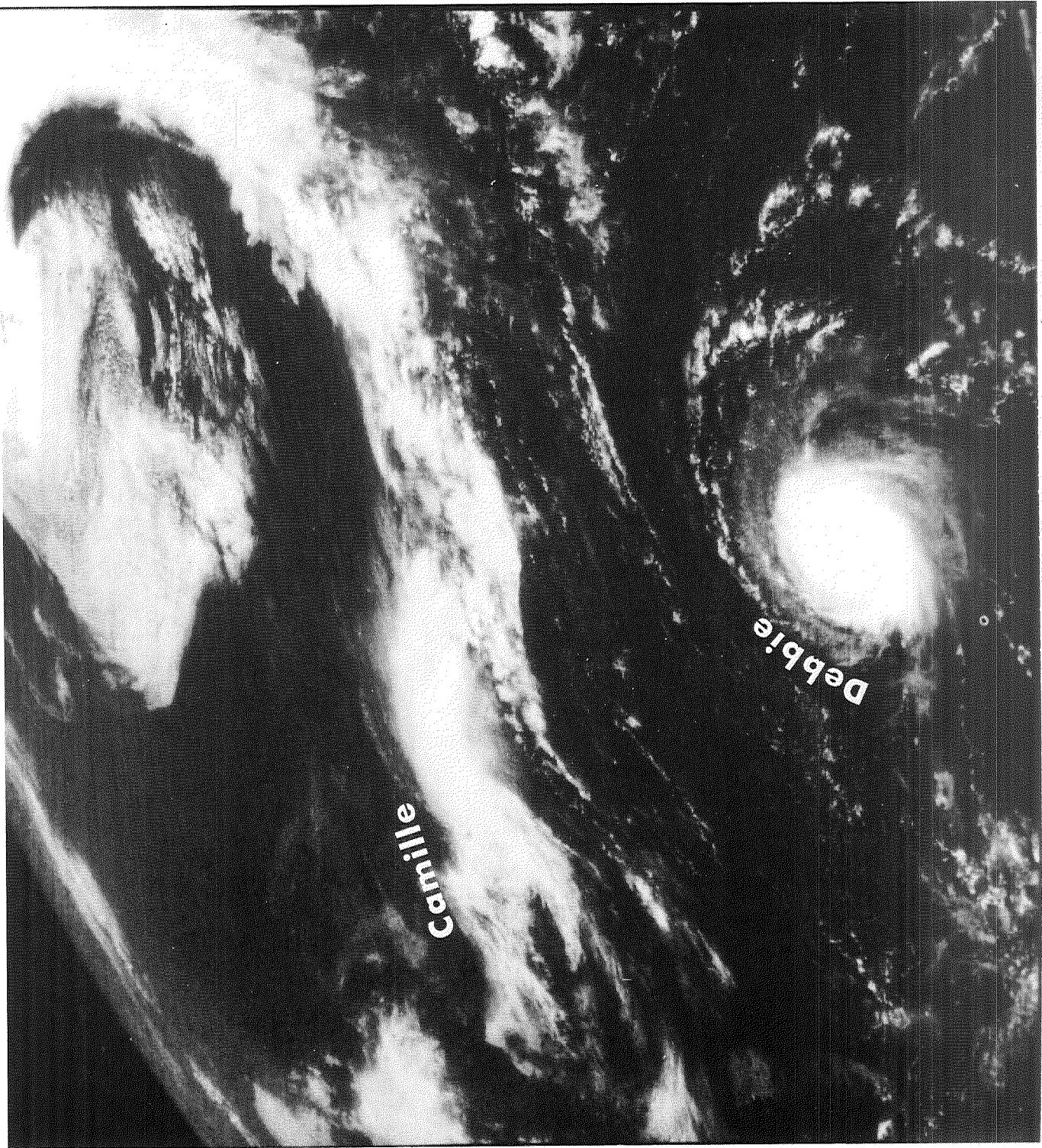
HURRICANE CAMILLE 17 AUGUST 1969



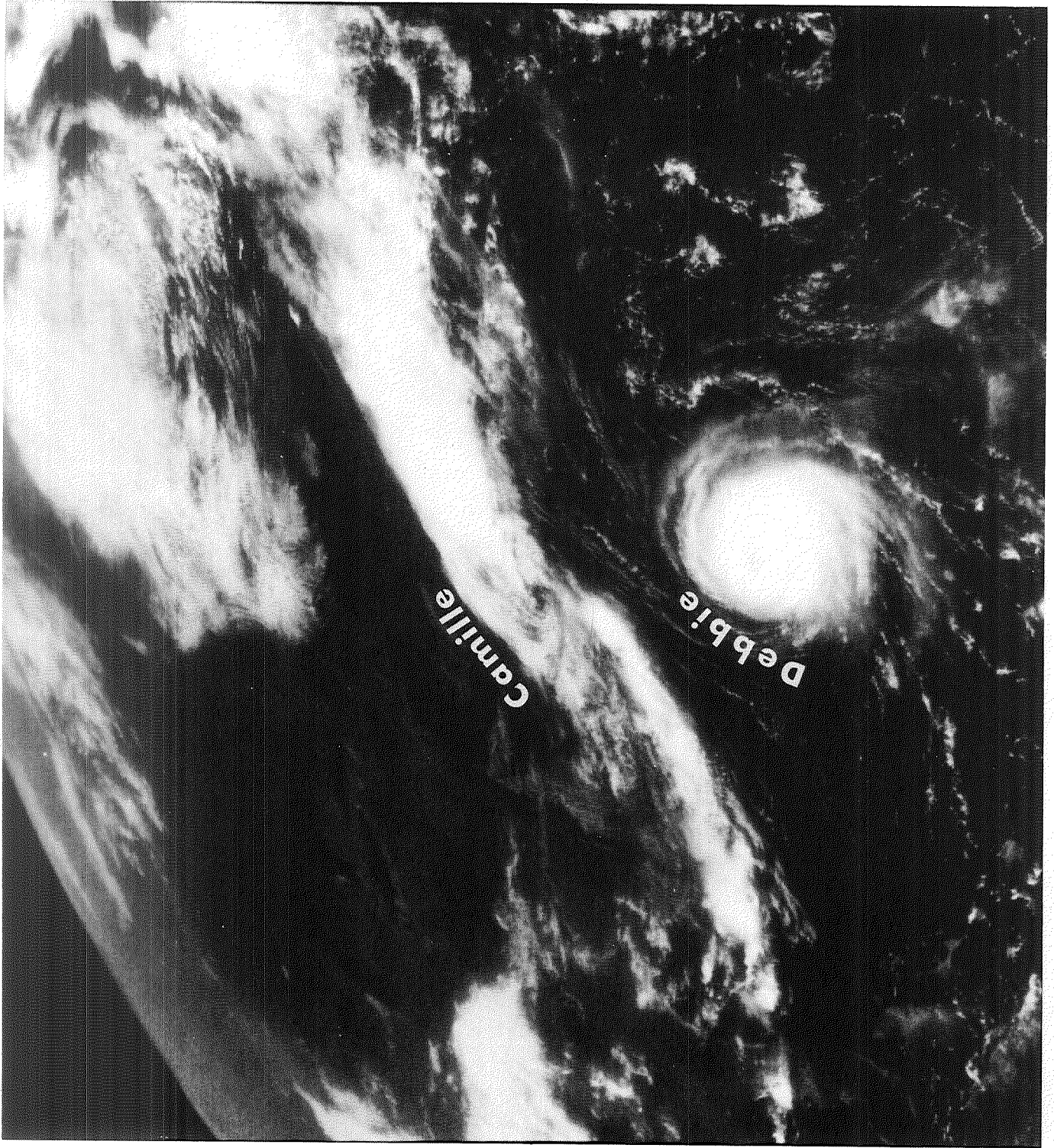
HURRICANE CAMILLE 18 AUGUST 1969



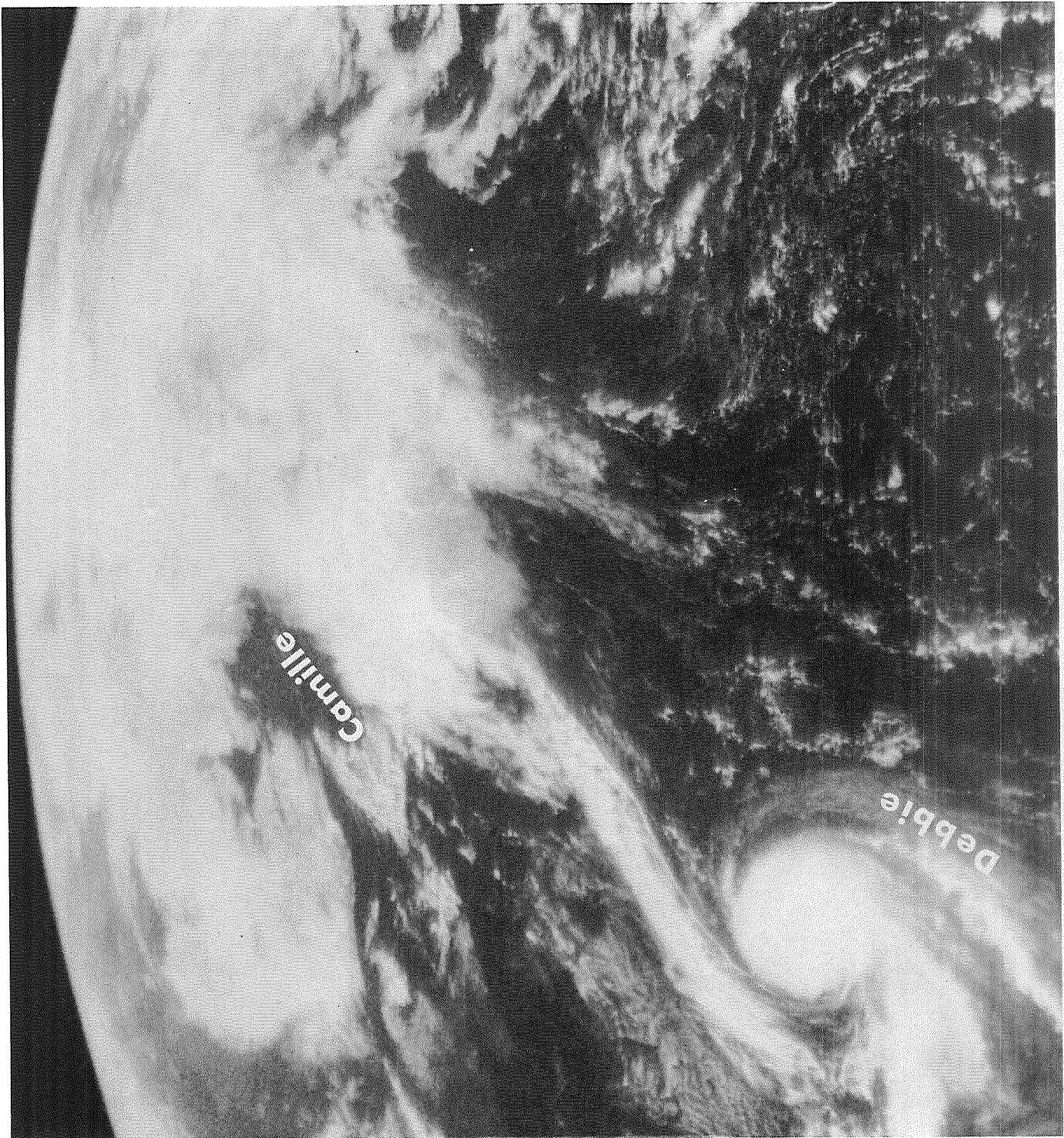
HURRICANE CAMILE 19 AUGUST 1969



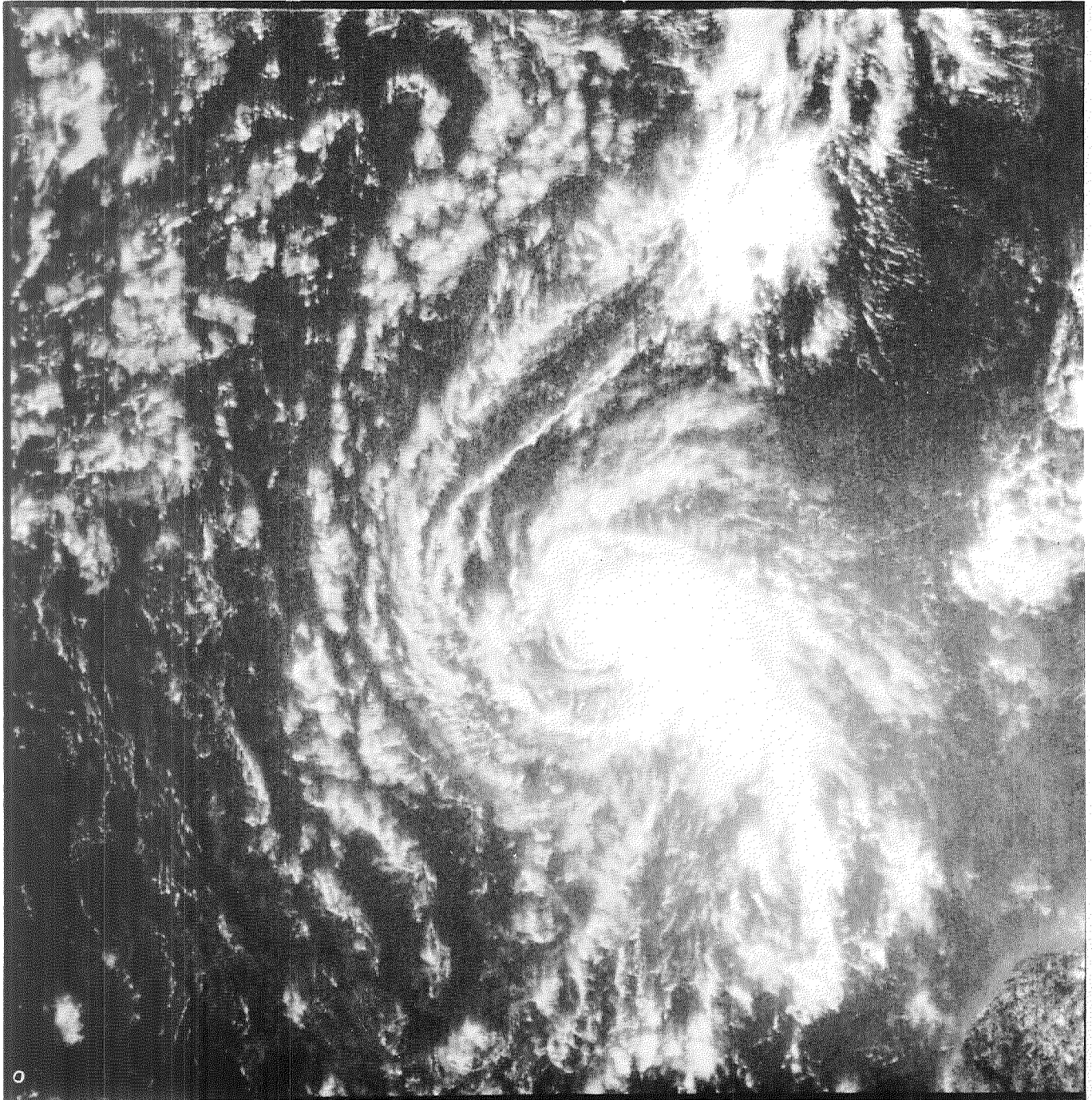
HURRICANE CAMILLE 20 AUGUST 1969



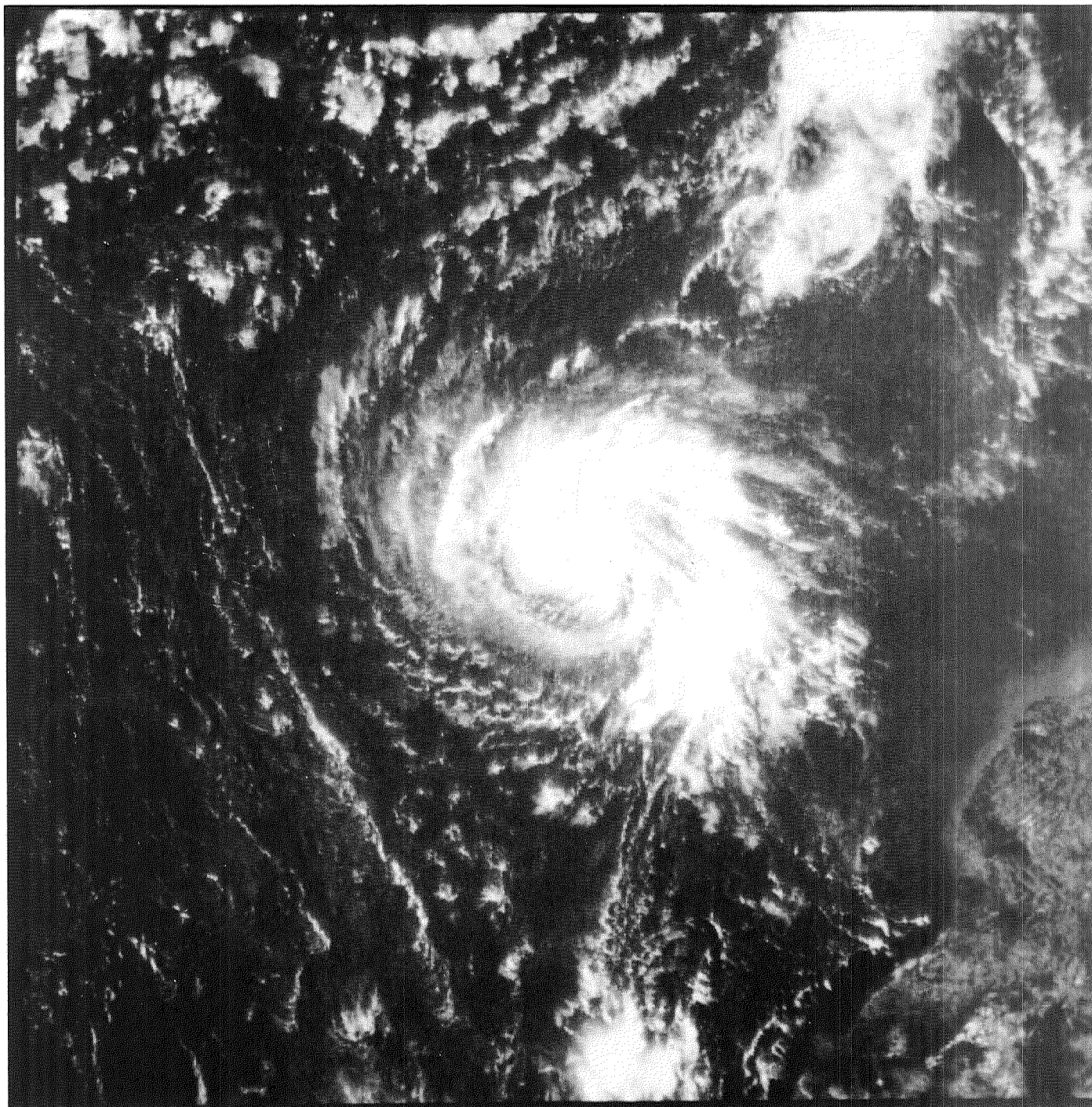
HURRICANE CAMILLE 21 AUGUST 1969



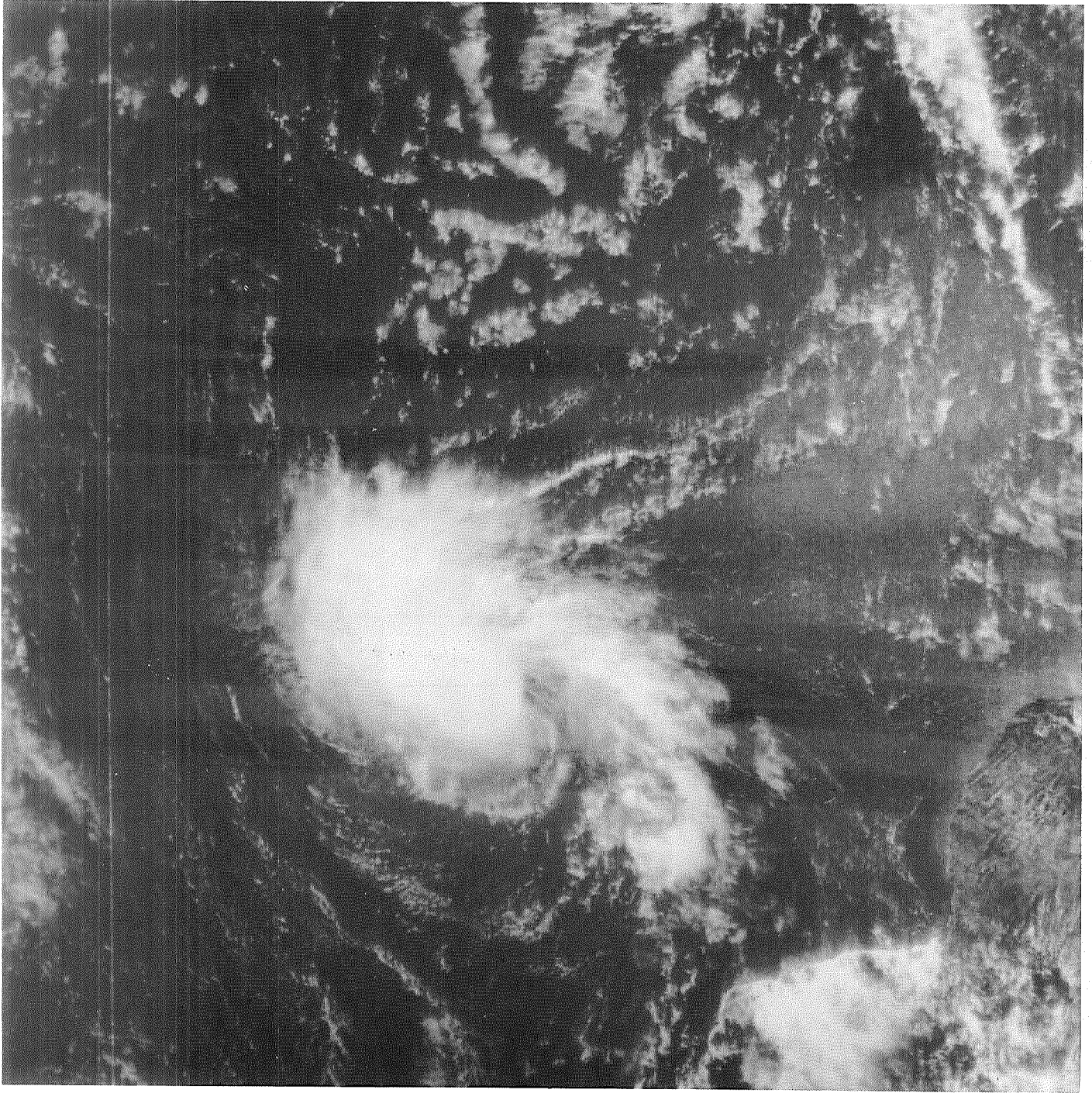
HURRICANE CAMILLE 22 AUGUST 1969



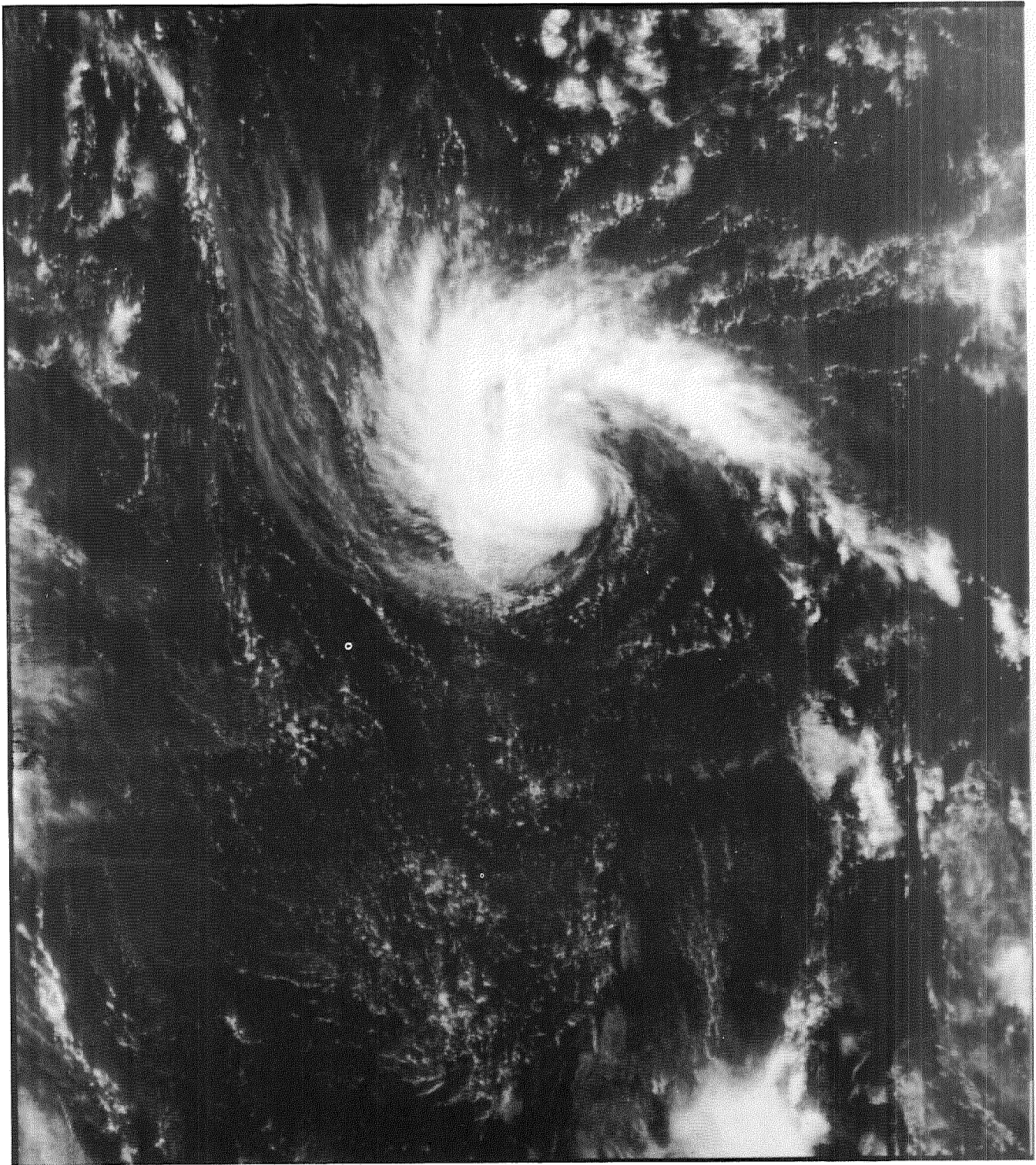
HURRICANE DEBBIE 15 AUGUST 1969



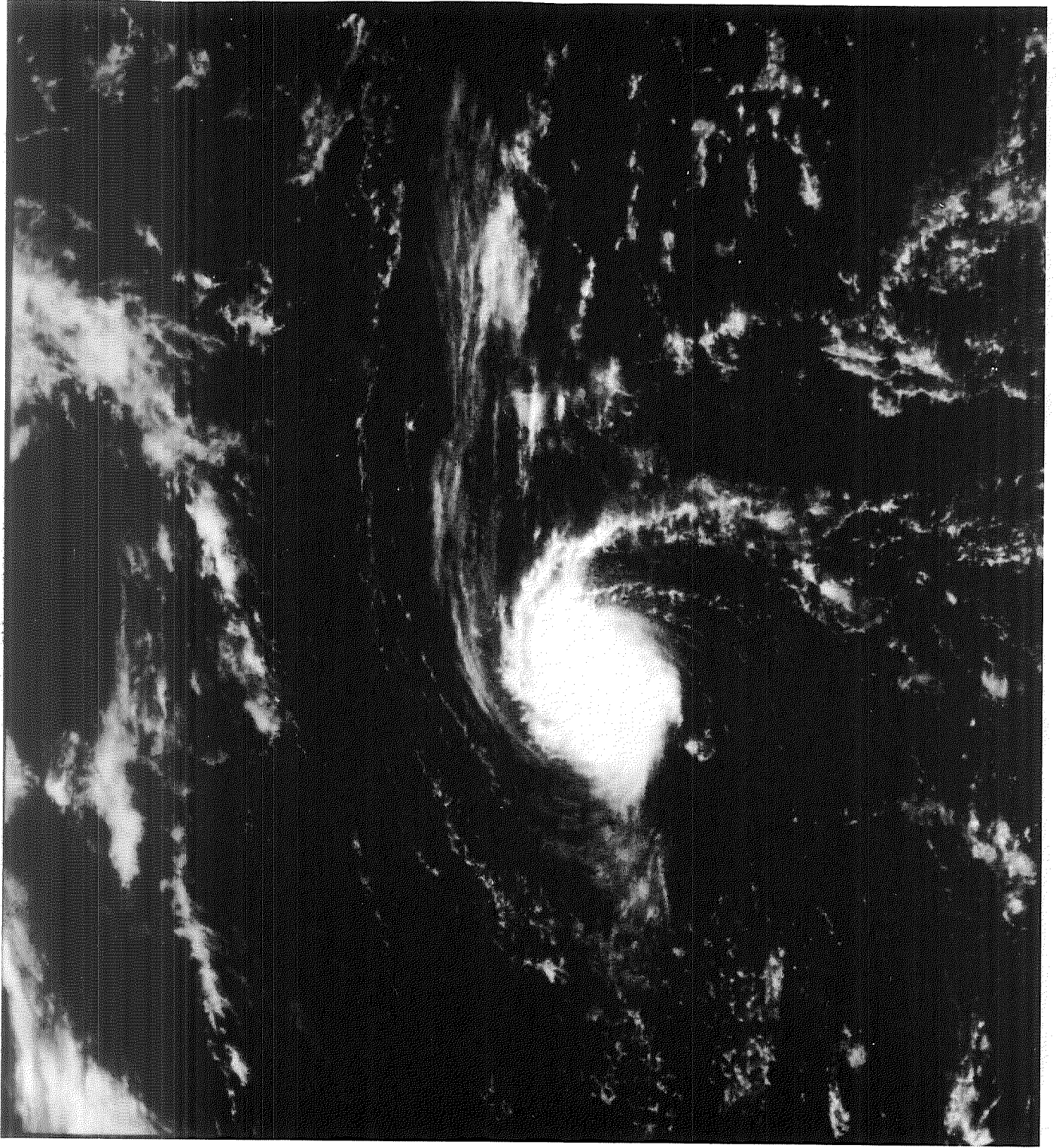
HURRICANE DEBBIE 16 AUGUST 1969



HURRICANE DEBBIE 17 AUGUST 1969



HURRICANE DEBBIE 18 AUGUST 1969



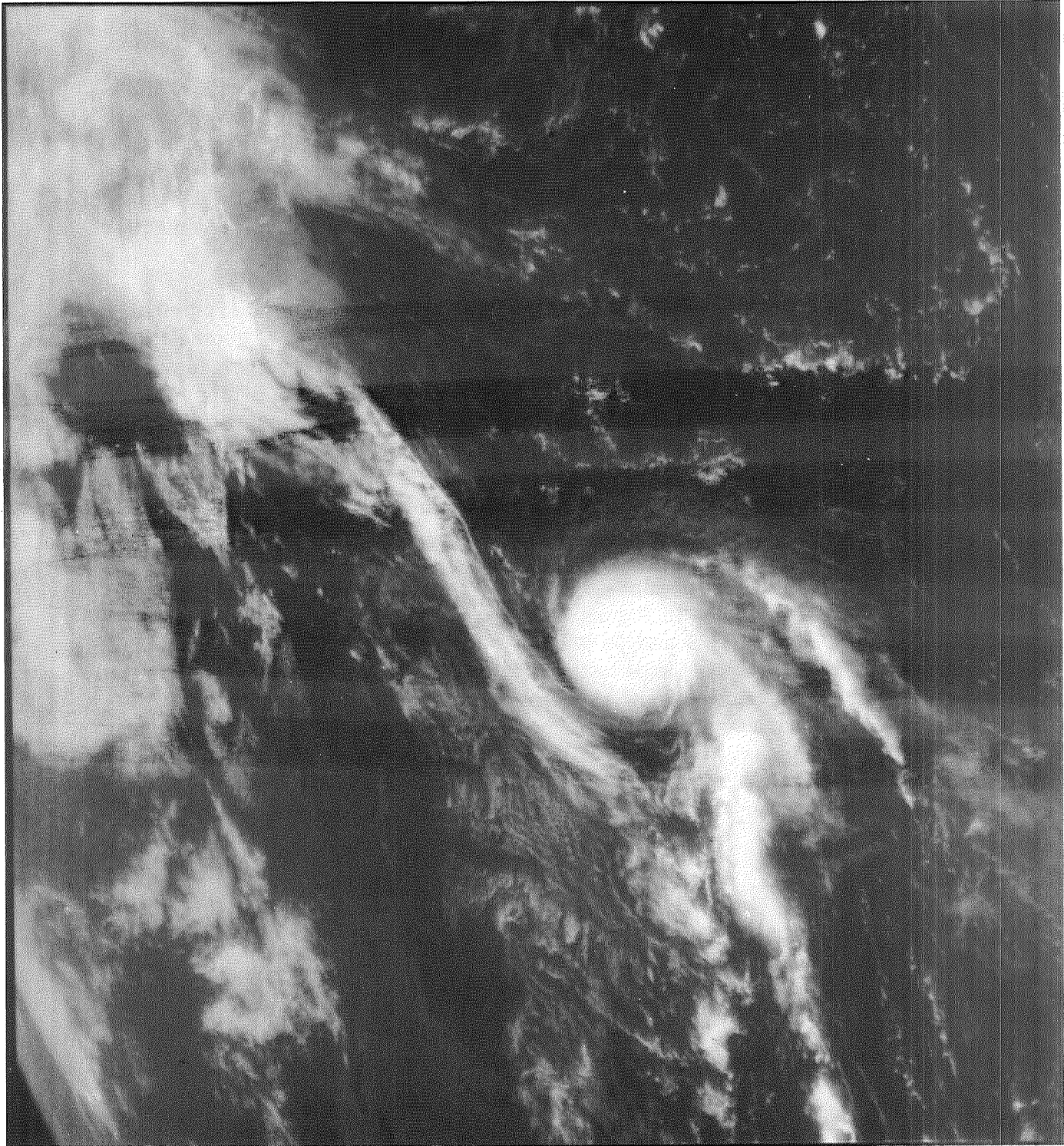
HURRICANE DEBBIE 19 AUGUST 1969



HURRICANE DEBBIE 20 AUGUST 1969



HURRICANE DEBBIE 21 AUGUST 1969



HURRICANE DEBBIE 22 AUGUST 1969

From article "Sunlint Patterns; Unusual Dark Patches," Greaves, B., et al. Science, Vol. 165, pp. 1360-1362, Figures 1A, 1B, 1C, 26 September 1969. Copyright 1969 by the American Association for the Advancement of Science.

In the course of a day, the sunlint may be observed to move from east to west across the face of the earth at a latitude intermediate between that of the ATS satellite and the sun. Isolated areas appeared within the sunlint pattern which are alternately dark, bright, and then dark again relative to their background as the center of the sunlint area passes over them. These observations seem to be best explained by a model where the isolated dark patches represent areas of relatively calm surface conditions against a background of higher sea state.

If the sea were perfectly calm, sunlint would consist of a small, very bright specular reflection at that point on the earth determined by the laws of geometric optics. Because the sea is not smooth, sunlint always appears as a larger, more diffuse area. According to this model, a patch of calm water not at the center of the sunlint pattern would show up as a dark spot against the sunlint background. If the center of the sunlint pattern were to pass through this area of calm water, it would become considerably brighter than the background due to specular reflection. As the center of the sunlint pattern then moves out of the calm area, it would once again become darker.

Figure 1 shows a typical sunlint sequence. These data were recorded by the ATS-III satellite on 27 March 1968. In Figure 1a, a dark area may be seen just west of the Galapagos Islands at about 1°S and 92°W. In this frame (at 1757Z) the Islands are within the sunlint area, but still to the west of the specular center. At this time of year, the sunlint moves westward along the equator, and in Figure 1b (at 1843Z) a bright specular reflection occurs in the formerly dark area. The primary islands of the Galapagos can be clearly seen against the bright background. In Figure 1c (at 1945Z) the waters west of the Galapagos are still within the sunlint pattern, but now lie to the east of the specular center and once again appear darker than the background.

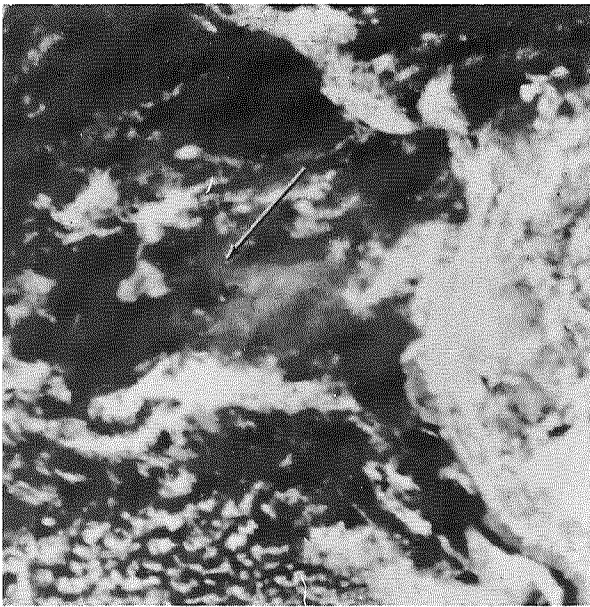


Figure 1a. Enhancement of Smooth Ocean Surface Surrounding the Galapagos Islands. ATS-III IDCS 27 March 1968, 17 57 Z.

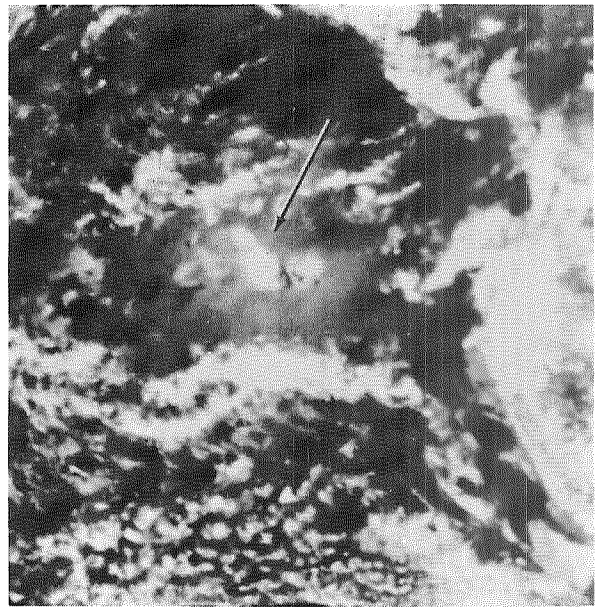


Figure 1b. Bright Specular Reflection of the Formerly Dark Area. ATS-III IDCS, 27 March 1968, 18 43 Z.

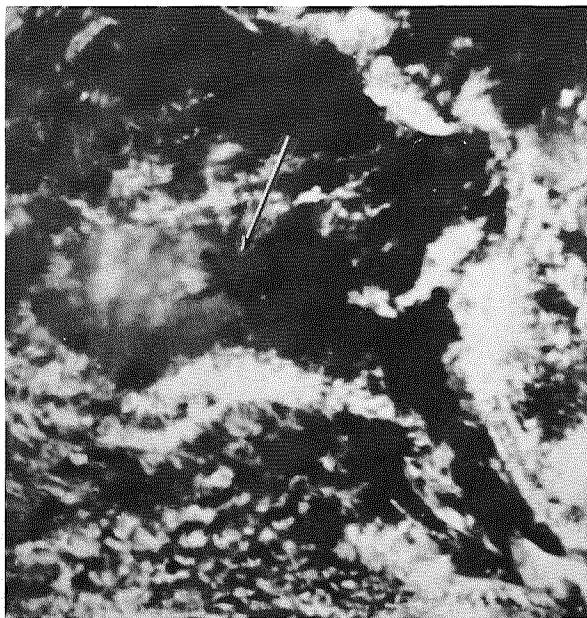
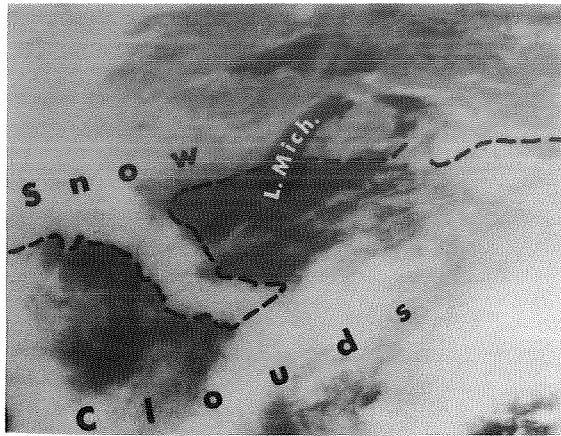
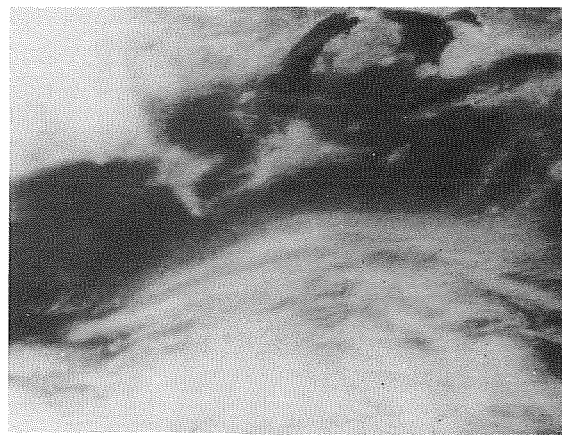
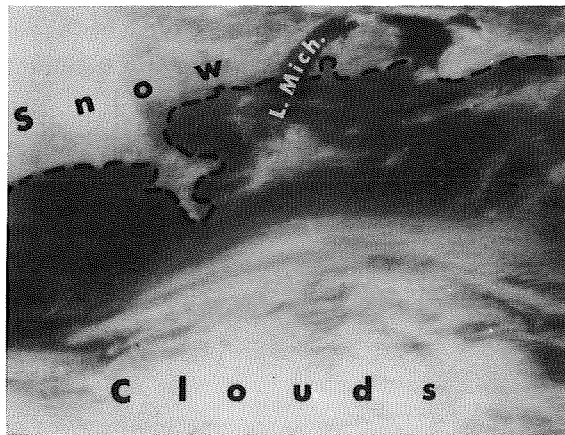


Figure 1c. Return to Original Dark Enhancement. ATS-III IDCS, 27 March 1968, 19 45 Z.

A SUNGLINT PATTERN WITH AN UNUSUAL DARK PATCH (BELIEVED TO BE AN AREA OF RELATIVELY CALM SURFACE CONDITIONS WITHIN AN AREA OF HIGHER SEA STATE)



1 MARCH 1969



3 MARCH 1969.

SNOW CHANGES IN THE MID-WESTERN UNITED STATES RECORDED BY THE MULTISPECTRAL SPIN SCAN CLOUD CAMERA (MSSCC) ON BOARD THE APPLICATIONS TECHNOLOGY SATELLITE (ATS-III).



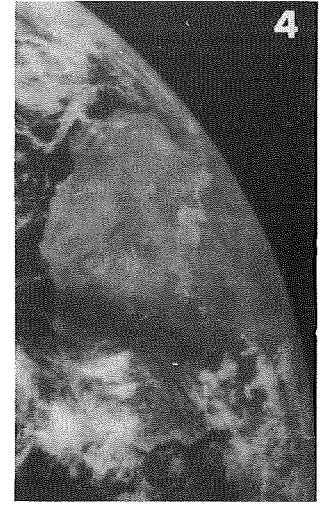
21 JUNE 1968



24 JULY 1968



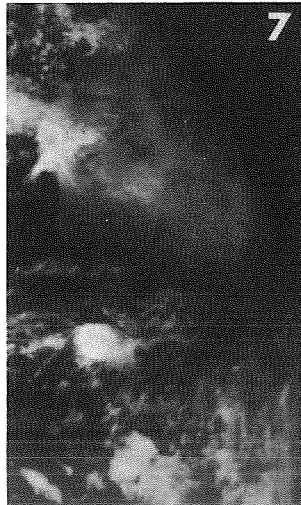
6 AUGUST 1969



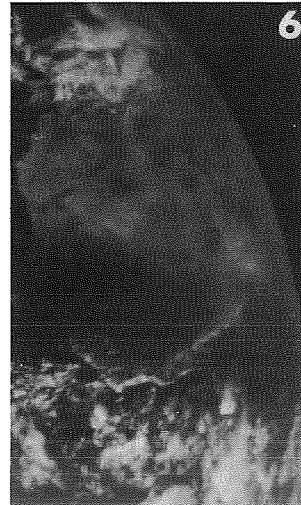
15 SEPTEMBER 1969



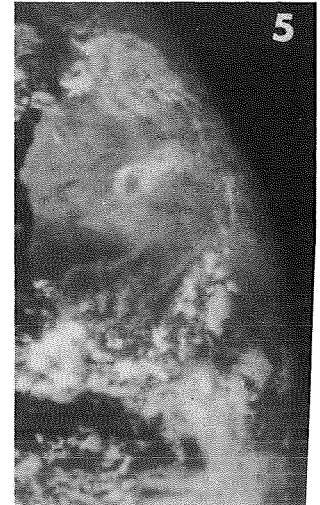
18 JANUARY 1970



28 DECEMBER 1969



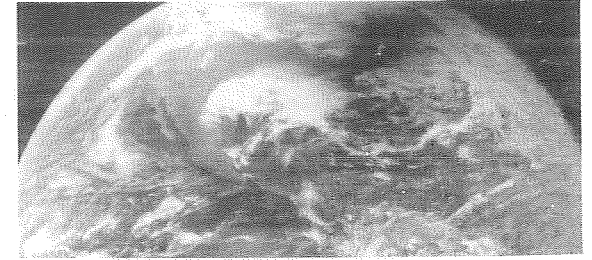
18 NOVEMBER 1969



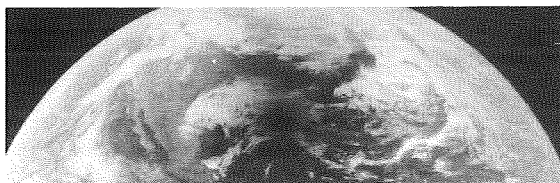
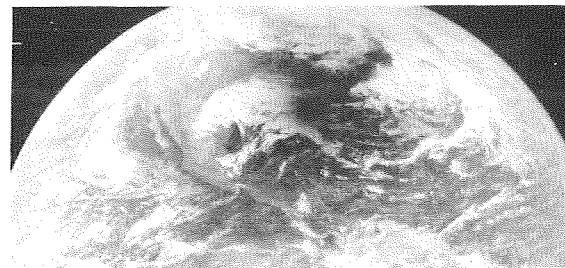
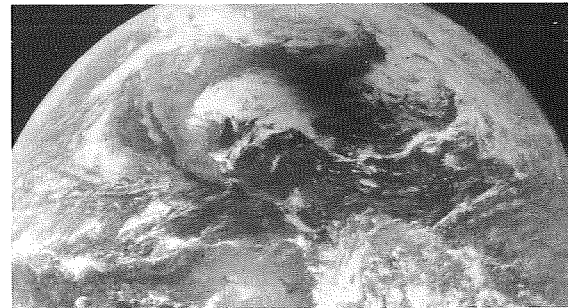
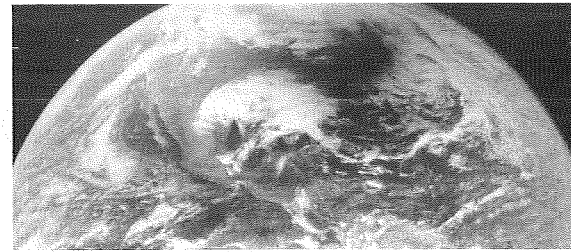
28 OCTOBER 1969

NORTH AFRICA SEASONAL REFLECTANCE CHANGES RECORDED BY THE MULTISPECTRAL SPIN SCAN CLOUD CAMERA (MSSCC) ON BOARD THE APPLICATIONS TECHNOLOGY SATELLITE (ATS-III).

ATS-III FOLLOWS THE SHADOW OF THE MOON
FROM FLORIDA TO THE NORTH ATLANTIC.



1:50 PM



1:10 PM

NASA ATS-III SATELLITE 7 MARCH 1970 ECLIPSE

SECTION 3

THE ATS-III ORBITAL DATA

This section contains a listing of the orbital elements which may be used to compute the ephemeris.

ORBITAL ELEMENTS

Valid Time		0000/01 Aug 0000/23 Aug	0000/23 Aug 1000/25 Aug	1000/25 Aug 0900/27 Sep	0900/27 Sep 0000/31 Oct	0000/31 Oct 0200/14 Nov	0200/14 Nov 0000/27 Nov	0000/27 Nov 0000/11 Dec
Semi-Major Axis	Km	42167.71	42174.89	42164.16	42156.74	42166.32	42167.84	42168.83
Eccentricity		0.00023	0.00012	0.00004	0.00001	0.00033	0.00031	0.00038
Inclination	Deg	0.201	0.155	0.106	0.355	0.213	0.249	0.284
Mean anomaly	Deg	284.931	325.066	188.850	112.566	66.118	103.113	88.780
Arg of perigee	Deg	240.418	258.242	102.791	182.874	180.000	198.264	197.600
/Motion	Deg/Day	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268	0.0268
Rt Ascen of A. Node	Deg	288.085	60.231	144.094	158.375	108.399	96.753	94.000
/Motion	Deg/Day	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134
Anomalistic period	Min	1436.24131	1436.60817	1436.06020	1435.68095	1436.17051	1436.24804	1436.29891
/Motion	Min/Day	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ht of perigee	Km	35779.98	35791.48	35784.26	35778.04	35774.16	35776.71	35774.52
Ht of apogee	Km	35799.10	35801.96	35787.73	35779.10	35802.15	35802.63	35806.81
Vel at perigee	Km/Hr	11071	11069	11069	11070	11072	11072	11072
Vel at apogee	Km/Hr	11066	11066	11068	11070	11065	11065	11064
Geocentric lat of perigee	Deg	0.175S	0.152S	0.103N	0.018S	0.000	0.078S	0.086S
Spin Rate	RPM	103.05	103.22	103.22	103.13	103.05	103.05	103.03

ORBITAL ELEMENTS (Continued)

Valid Time		0000/11 Dec 0000/25 Dec	0000/25 Dec 0000/01 Jan	0000/01 Jan 0000/22 Jan	0000/22 Jan 0000/05 Feb	0000/05 Feb 0000/19 Feb	0000/19 Feb 1505/02 Mar	1505/02 Mar 2340/05 Mar
Semi-Major Axis	Km	42170.27	42195.37	42195.37	42198.45	42218.81	42231.49	42178.36
Eccentricity		0.00033	0.00078	0.00078	0.00081	0.00106	0.00080	0.00131
Inclination	Deg	0.327	0.384	0.384	0.469	0.506	0.538	0.578
Mean anomaly	Deg	96.714	67.286	67.286	81.255	60.948	72.471	357.918
Arg of perigee	Deg	204.575	246.411	246.411	248.144	275.295	266.917	346.144
/Motion	Deg/Day	0.0268	0.0268	0.0268	0.0267	0.0267	0.0267	0.0268
Rt Ascn of A. Node	Deg	92.129	92.457	92.457	92.424	93.282	94.137	91.274
/Motion	Deg/Day	0.0134	0.0134	0.0134	0.0134	0.0134	0.0133	0.0134
Anomalistic period	Min	1436.37257	1437.65483	1437.65483	1437.81213	1438.85328	1439.50110	1436.78540
/Motion	Min/Day	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ht of perigee	Km	35778.17	35784.25	35784.25	35786.21	35796.08	35819.60	35744.73
Ht of apogee	Km	35806.05	35850.16	35850.16	35854.35	35885.22	35887.05	35855.65
Vel at perigee	Km/Hr	11072	11073	11073	11073	11073	11069	11082
Vel at apogee	Km/Hr	11064	11056	11056	11055	11050	11051	11052
Geocentric lat of perigee	Deg	0.136S	0.352S	0.352S	0.435S	0.504S	0.537S	0.196S
Spin Rate	RPM	103.03	103.03	102.74	102.74	102.74	102.51	101.26

ORBITAL ELEMENTS (Continued)

Valid Time		2340/05 Mar 0000/18 Mar	0000/18 Mar 0000/21 Apr	0000/21 Apr 0000/25 Apr	0000/25 Apr 0000/02 May	0000/02 May 0000/09 May	0000/09 May 0000/14 May	0000/14 May 0000/27 May
Semi-Major Axis	Km	42146.66	42148.70	42150.30	42150.80	42152.96	42152.55	42154.53
Eccentricity		0.00065	0.00065	0.00074	0.00072	0.00071	0.00068	0.00074
Inclination	Deg	0.570	0.992	0.620	0.658	0.687	0.713	0.715
Mean anomaly	Deg	332.330	352.195	10.249	39.447	41.472	55.310	55.262
Arg of perigee	Deg	5.859	6.242	5.722	5.815	13.029	8.997	13.893
/Motion	Deg/Day	0.0269	0.0269	0.0269	0.0269	0.0268	0.0268	0.0268
Rt Asc of A. Node	Deg	94.667	93.950	93.180	90.967	91.017	89.261	90.136
/Motion	Deg/Day	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134	0.0134
Anomalistic period	Min	1435.16630	1435.27034	1435.35228	1435.37788	1435.48810	1435.46718	1435.56811
/Motion	Min/Day	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000	0.00000
Ht of perigee	Km	35740.98	35742.96	35740.92	35742.46	35744.99	35745.58	35745.34
Ht of apogee	Km	35796.01	35798.10	35803.35	35802.81	35804.60	35803.19	35807.38
Vel at perigee	Km/Hr	11078	11078	11079	11079	11078	11078	11078
Vel at apogee	Km/Hr	11064	11064	11062	11063	11062	11063	11062
Geocentric lat of perigee	Deg	0.058N	0.064N	0.062N	0.067N	0.155N	0.122N	0.172N
Spin Rate	RPM	101.26	101.26	101.25	101.25	101.23	101.23	101.23

SECTION 4

THE ATS-III MSSCC METEOROLOGICAL DATA

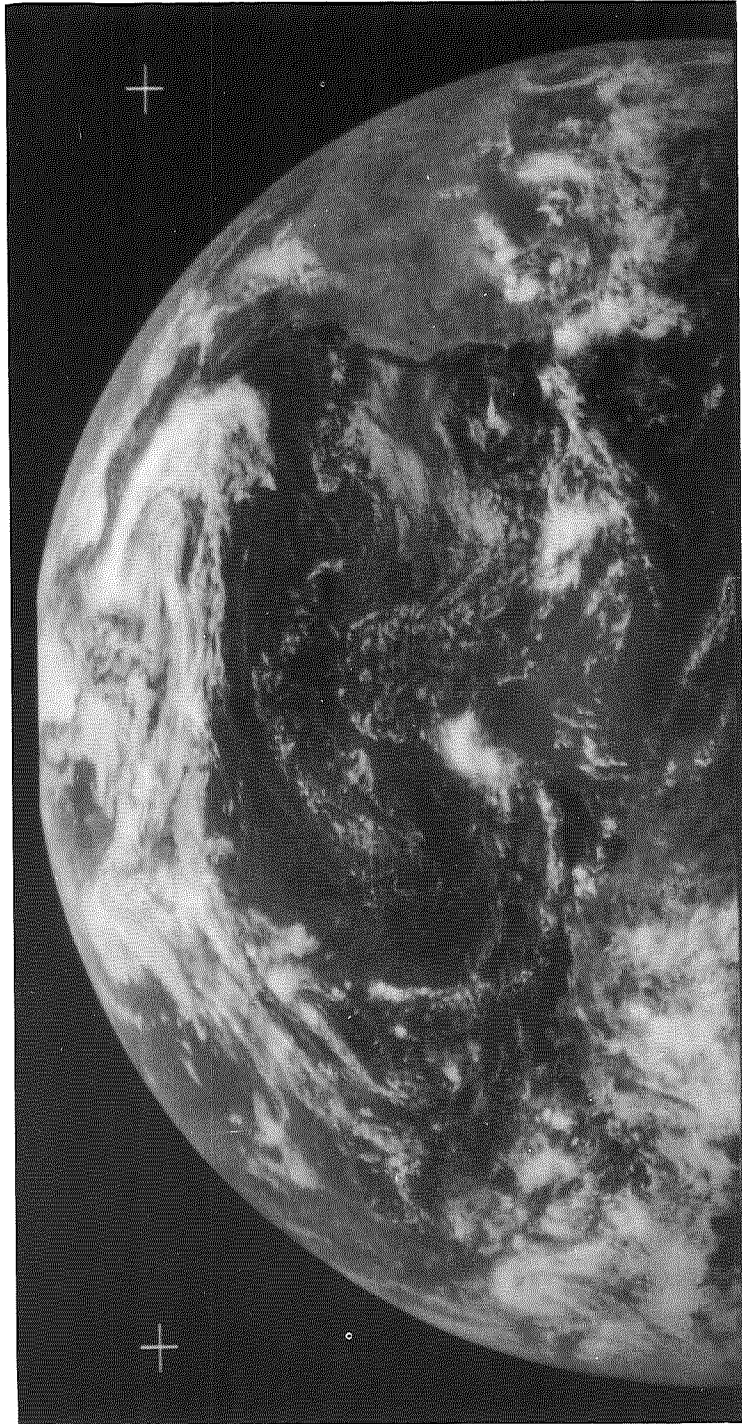
1 August 1969
through
25 May 1970

MSSCC

2 Aug 69

SSP 46.71W 0.07S

Seq	End Time	Remarks
1	14 53 31	Half Scan
2	15 06 46	Half Scan
3	15 20 55	Half Scan
4	15 33 52	Half Scan Noise Picture Good
5	15 46 40	Half Scan
6	16 02 12	Half Scan
7	16 14 57	Half Scan
8	16 27 43	Half Scan
9	16 40 28	Half Scan Noise Picture Good
10	16 53 13	Half Scan Slight Phasing Error Picture Good
11	17 05 58	Half Scan Slight Phasing Error Picture Good
12	17 18 44	Half Scan Slight Phasing Error Picture Good
13	17 31 29	Half Scan Slight Phasing Error Picture Good
14	17 44 18	Half Scan Slight Phasing Error Picture Good
15	17 57 12	Half Scan Slight Phasing Error Picture Good
16	18 09 49	Half Scan Slight Phasing Error Picture Good
17	18 22 44	Half Scan Slight Phasing Error Picture Good
18	18 37 14	Half Scan Slight Phasing Error Picture Good
19	18 50 03	Half Scan Slight Phasing Error Picture Good
20	19 02 45	Half Scan Slight Phasing Error Picture Good
21	19 15 34	Half Scan Slight Phasing Error Picture Good
22	19 28 16	Half Scan Slight Phasing Error Picture Good
23	19 41 04	Half Scan Slight Phasing Error Picture Good
24	19 53 50	Half Scan Slight Phasing Error Picture Good
25	20 06 35	Half Scan Slight Phasing Error Picture Good
26	20 19 21	Half Scan Slight Phasing Error Picture Good
27	20 32 06	Half Scan Slight Phasing Error Picture Good
28	20 44 51	Half Scan Slight Phasing Error Picture Good
29	20 57 34	Half Scan Slight Phasing Error Picture Good



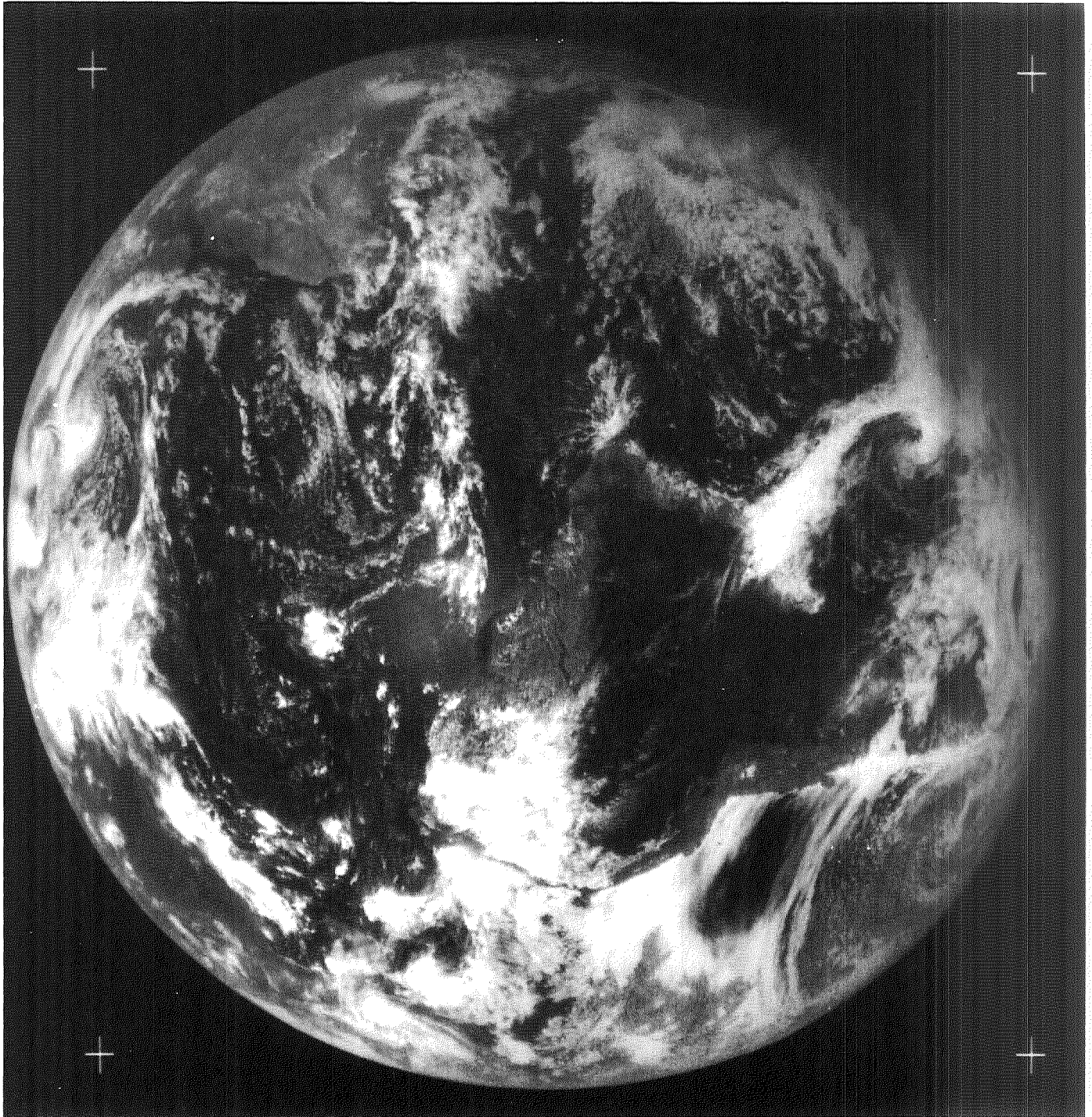
ATS-III MSSCC 2 AUG 69 14 53 31 Z 1

MSSCC

3 Aug 69

SSP 46.80W 0.07S

Seq	End Time	Remarks
1	09 54 42	Noise
2	16 09 01	Slight Phasing Error Picture Excellent
3	16 34 38	Slight Phasing Error Picture Excellent
4	17 00 15	Slight Phasing Error Picture Excellent
5	17 25 52	Slight Phasing Error Picture Excellent
6	20 54 05	Slight Phasing Error Picture Excellent



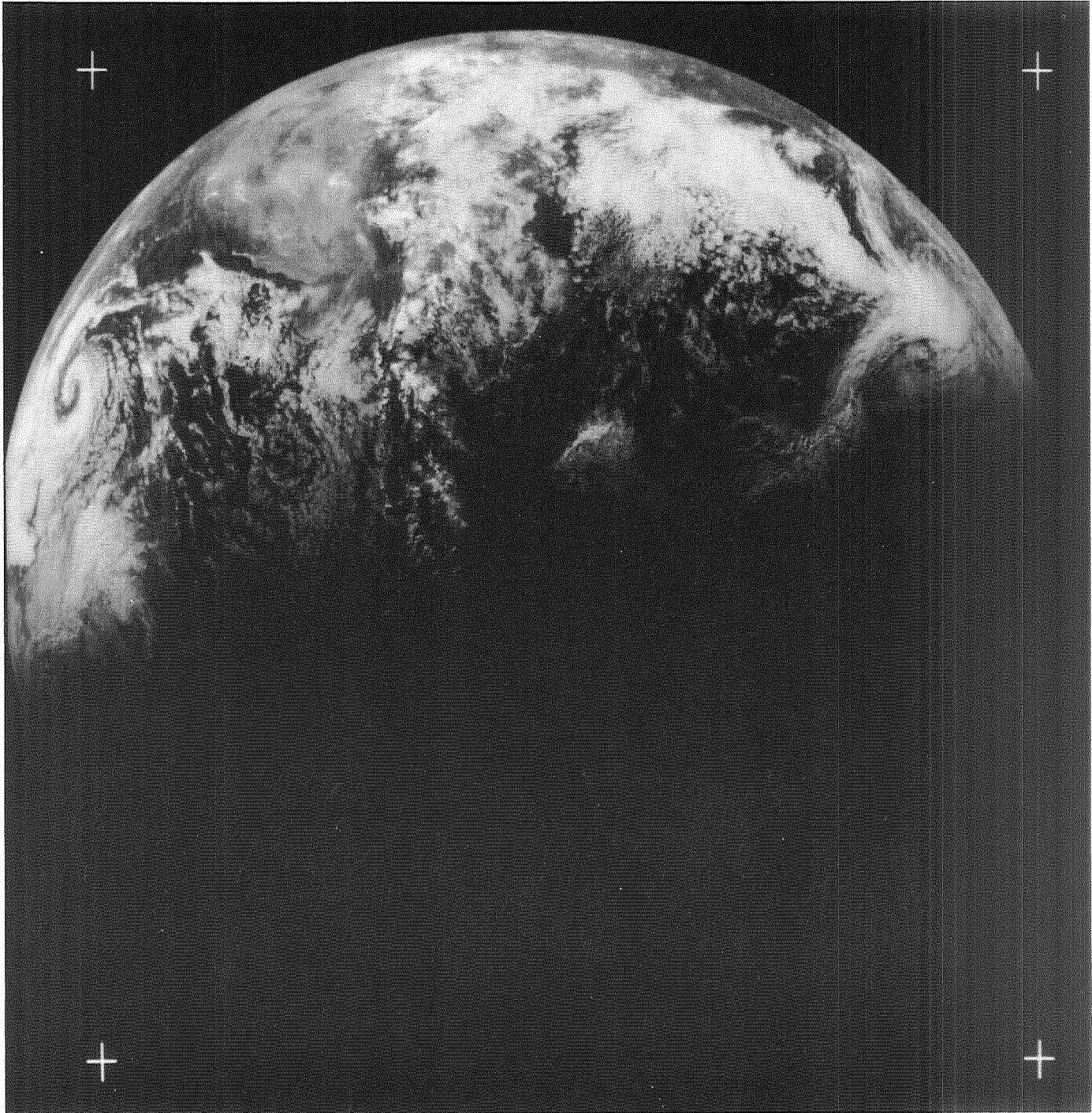
ATS-III MSSCC 3 AUG 69 16 09 01 Z 2

MSSCC

4 Aug 69

SSP 46.89W 0.07S

Seq	End Time	Remarks
1	09 53 43	
2	21 02 03	Noise Picture Good



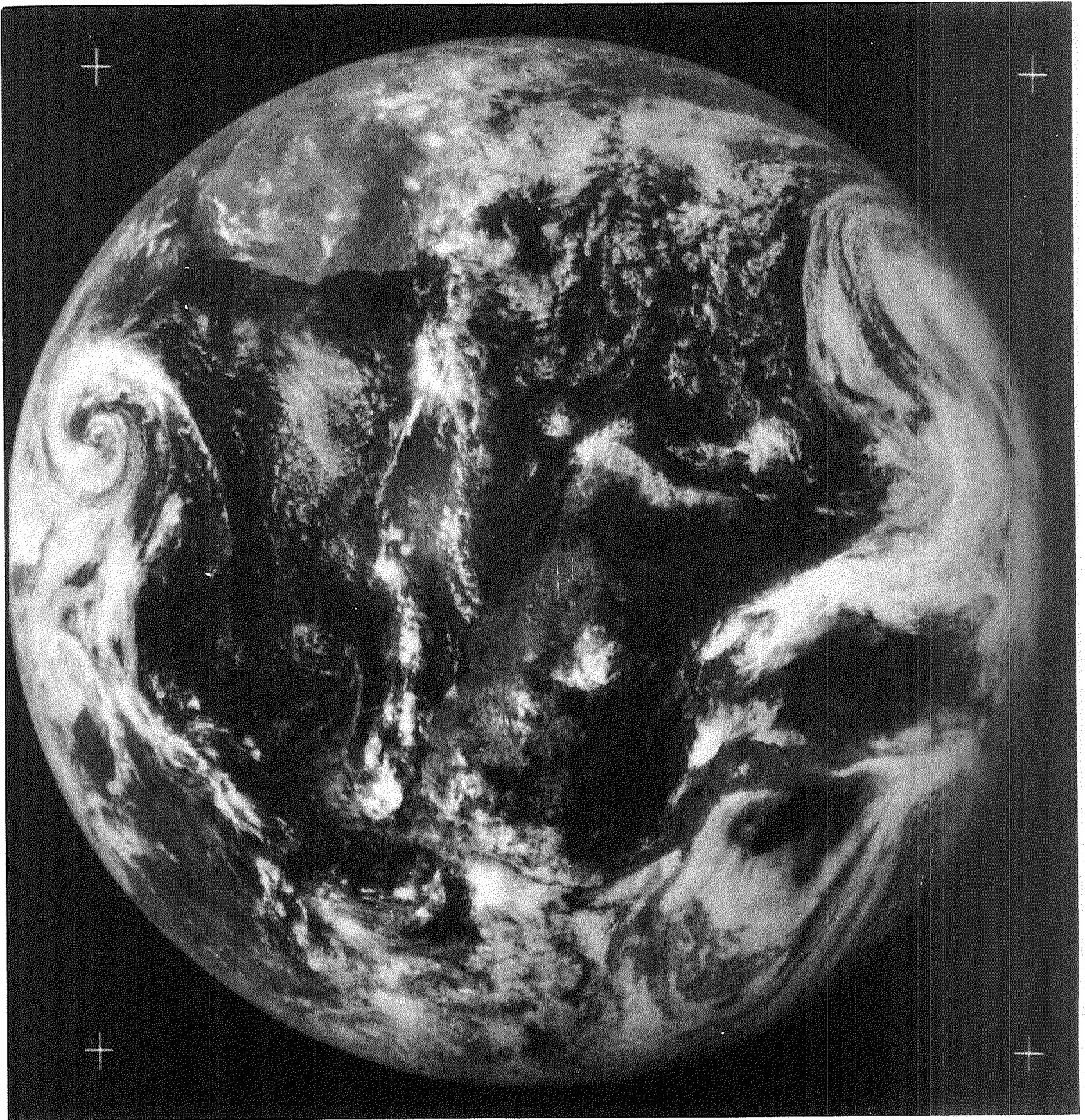
ATS-III MSSCC 4 AUG 69 09 53 43 Z 1

MSSCC

6 Aug 69

SSP 47.08W 0.07S

Seq	End Time	Remarks
1	10 03 48	Data Not Usable
2	13 58 02	Noise Hurricane Doreen Picture Good
3	14 23 38	Noise Slight Phasing Error Picture Good Doreen
4	14 49 15	Noise Slight Phasing Error Picture Good Doreen
5	15 14 52	Noise Slight Phasing Error Picture Good Doreen
6	15 40 29	Noise Doreen Picture Good
7	16 06 05	Noise Doreen Picture Good
8	16 31 42	Noise Doreen Picture Good
9	20 56 42	Noise Doreen Picture Good



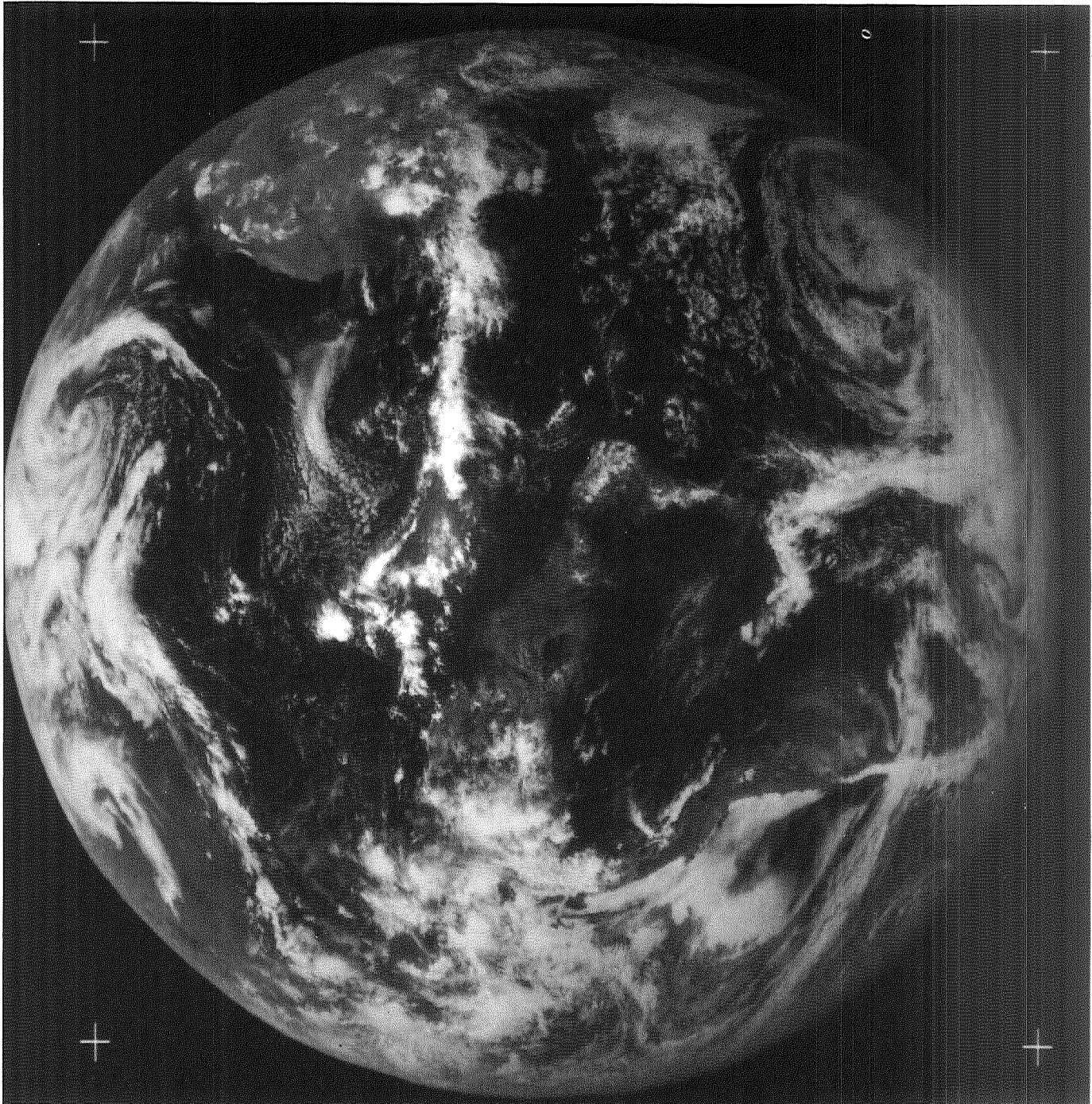
ATS-III MSSCC 6 AUG 69 14 49 15 Z 4

MSSCC

7 Aug 69

SSP 47.17W 0.07S

Seq	End Time	Remarks
1	10 04 07	
2	13 34 15	Slight Phasing Error Picture Good
3	13 59 52	Slight Phasing Error Picture Good
4	14 32 15	Slight Phasing Error Picture Good
5	14 57 54	Slight Phasing Error Picture Good
6	15 23 31	Slight Phasing Error Picture Good
7	15 49 07	Slight Phasing Error Picture Good
8	16 14 44	
9	21 28 23	Phasing Error Last 600 Lines



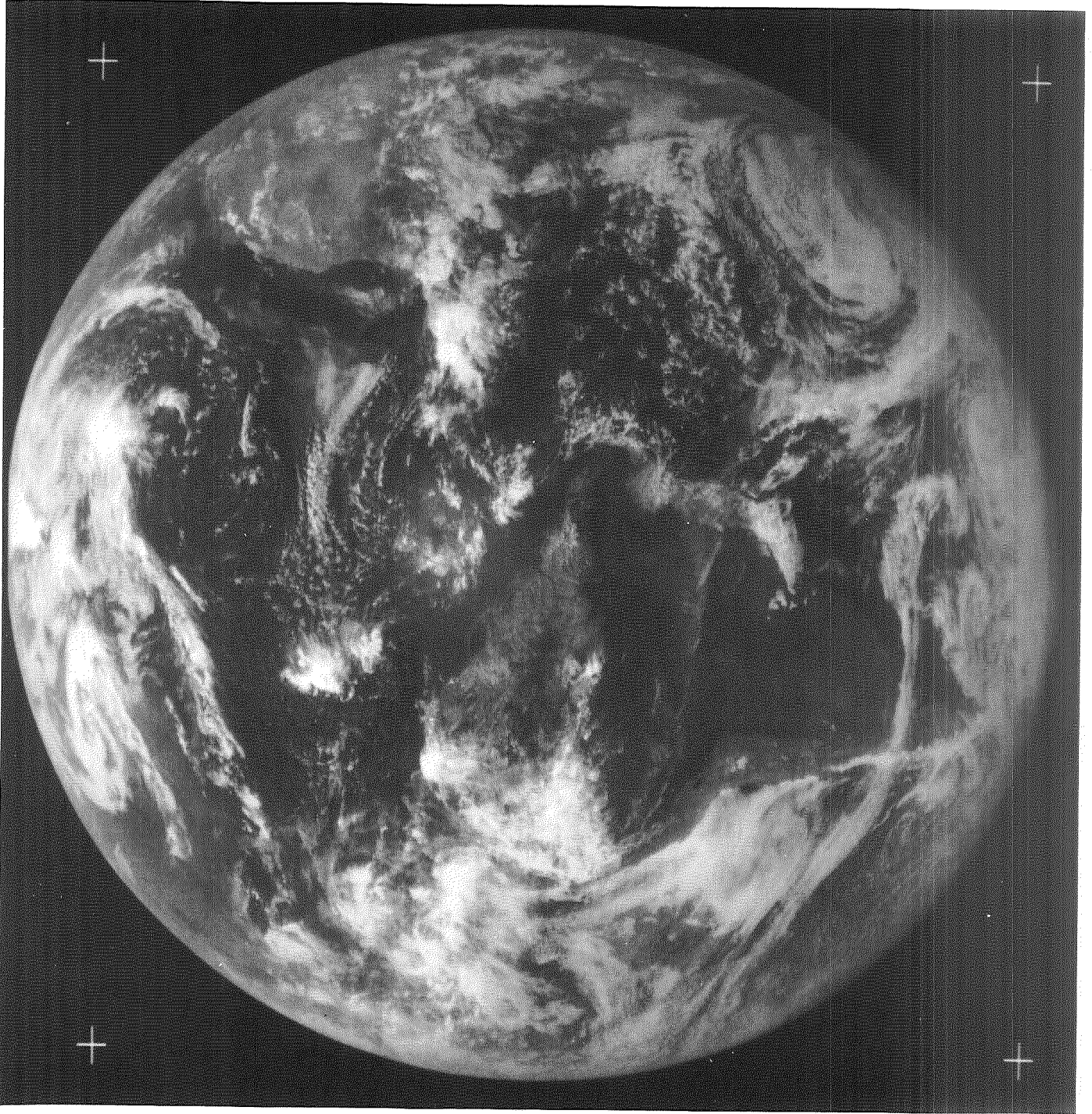
ATS-III MSSCC 7 AUG 69 14 57 54 Z 5

MSSCC

8 Aug 69

SSP 47.27W 0.06S

Seq	End Time	Remarks
1	12 43 52	Noise Picture Good
2	13 09 28	Noise Picture Good
3	13 35 05	Noise Picture Good
4	14 00 42	Noise Picture Good
5	14 26 19	Noise Picture Good
6	14 51 58	Noise Picture Good
7	15 17 35	Noise Picture Good
8	15 43 11	Noise Picture Good
9	16 08 48	Noise Picture Good
10	16 34 25	Noise Picture Good



ATS-III MSSCC 8 AUG 69 15 17 35 Z 7

MSSCC

10 Aug 69

SSP 47.66W 0.06S

Seq	End Time	Remarks
1	10 14 51	Noise Picture Fair
2	15 21 40	Noise Tropical Depression E of Fla Picture Good
3	15 47 17	Noise Tropical Depression E of Fla Picture Good
4	16 12 54	Noise Tropical Depression E of Fla Picture Good
5	16 38 30	Noise Tropical Depression E of Fla Picture Good



ATS-III MSSCC 10 AUG 69 15 21 40 Z 2

MSSCC

11 Aug 69

SSP 47.56W 0.06S

Seq	End Time	Remarks
1	09 55 30	
2	13 57 36	Half Scan Tropical Storm Blanche
3	14 10 24	Half Scan Tropical Storm Blanche
4	14 23 07	Half Scan Tropical Storm Blanche
5	14 35 52	Half Scan Blanche Phasing Error Picture Fair
6	14 52 23	Half Scan Blanche Phasing Error Picture Good
7	15 05 06	Half Scan Blanche
8	15 18 09	Half Scan Blanche
9	15 31 06	Half Scan Blanche Noise Picture Good
10	15 43 48	Half Scan Blanche
11	15 56 40	Half Scan Blanche
12	16 09 22	Half Scan Blanche
13	16 22 04	Half Scan Blanche
14	16 34 56	Half Scan Blanche
15	16 47 47	Half Scan Blanche
16	17 00 12	Half Scan Blanche
17	17 13 14	Half Scan Blanche Phasing Error Picture Good
18	17 25 51	Half Scan Blanche
19	17 38 40	Half Scan Blanche
20	17 51 22	Half Scan Blanche
21	18 04 10	Half Scan Blanche
22	18 16 53	Half Scan Blanche
23	18 29 38	Half Scan Blanche
24	18 42 26	Half Scan Blanche
25	18 55 12	Half Scan Blanche
26	19 07 57	Half Scan Blanche
27	19 20 42	Half Scan Blanche
28	19 33 25	Half Scan Blanche Noise Phasing Error
29	19 46 15	Half Scan Blanche Phasing Error Picture Good
30	20 00 34	Half Scan Blanche Phasing Error Picture Good
31	20 13 19	Half Scan Blanche
32	20 26 04	Half Scan Blanche
33	20 38 52	Half Scan Blanche
34	20 51 32	Half Scan Blanche



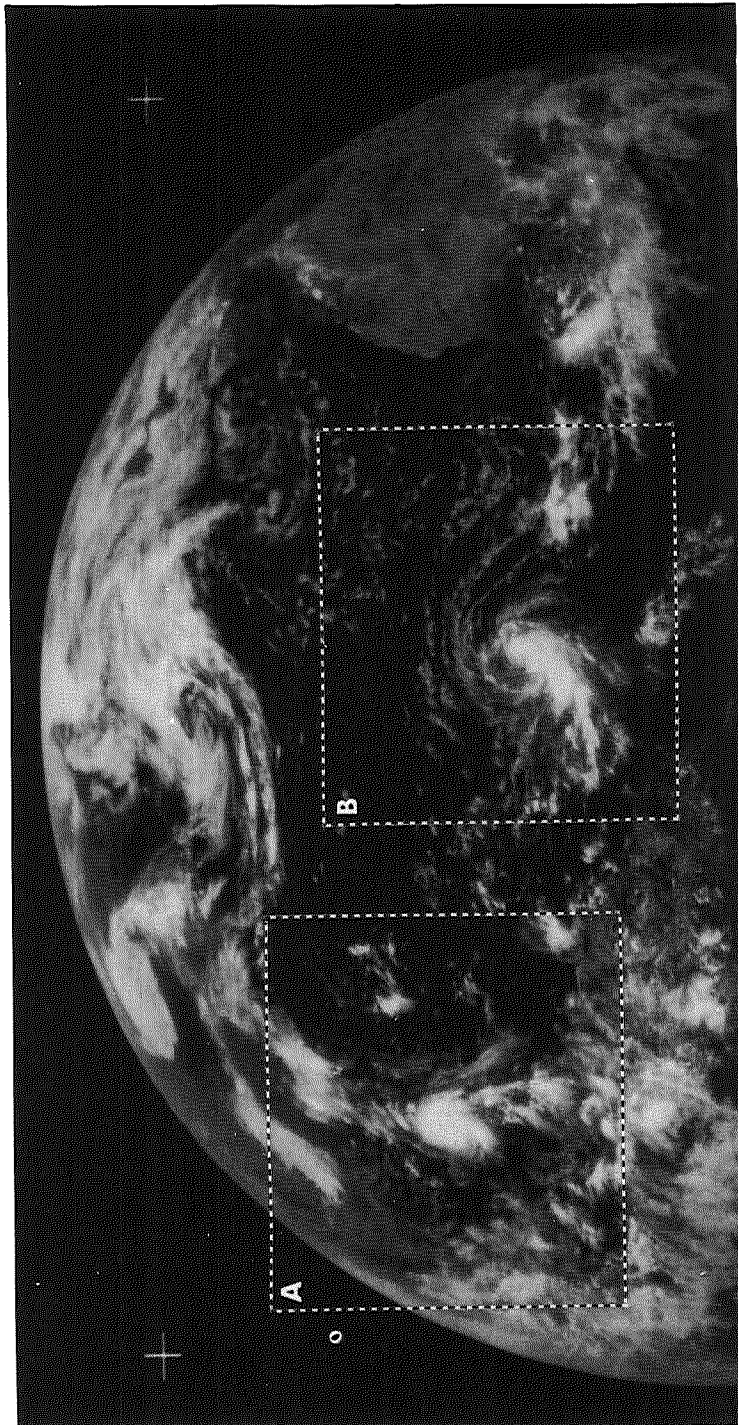
ATS-III MSSCC 11 AUG 69 15 05 06 Z 7

MSSCC

15 Aug 69

SSP 47.98W 0.07S

Seq	End Time	Remarks
1	09 35 45	Half Scan Tropical Storm Debbie
2	09 48 27	Half Scan Tropical Storm Debbie
3	10 01 25	Half Scan Tropical Storm Debbie
4	10 14 16	Half Scan Tropical Storm Debbie
5	10 27 01	Half Scan Tropical Storm Debbie
6	10 39 47	Half Scan Tropical Storm Debbie
7	10 52 29	Half Scan Tropical Storm Debbie
8	11 05 14	Half Scan Tropical Storm Debbie
9	11 17 57	Half Scan Tropical Storm Debbie
10	11 30 42	Half Scan Tropical Storm Debbie
11	11 43 28	Half Scan Noise Debbie Picture Good
12	11 56 39	Half Scan Tropical Storms Camille and Debbie
13	12 09 39	Half Scan Tropical Storms Camille and Debbie
14	12 22 25	Half Scan Tropical Storms Camille and Debbie
15	12 35 16	Half Scan Tropical Storms Camille and Debbie
16	12 48 07	Half Scan Tropical Storms Camille and Debbie
17	13 00 50	Half Scan Tropical Storms Camille and Debbie
18	13 13 44	Half Scan Tropical Storms Camille and Debbie
19	13 26 30	Half Scan Tropical Storms Camille and Debbie
20	13 39 41	Half Scan Tropical Storms Camille and Debbie
21	13 52 42	Half Scan Tropical Storms Camille and Debbie
22	14 05 45	Half Scan Tropical Storms Camille and Debbie
23	14 18 33	Half Scan Tropical Storms Camille and Debbie
24	14 31 19	Half Scan Tropical Storms Camille and Debbie
25	14 44 16	Half Scan Tropical Storms Camille and Debbie
26	14 57 20	Half Scan Tropical Storms Camille and Debbie
27	15 09 53	Half Scan Tropical Storms Camille and Debbie
28	15 22 38	Half Scan Tropical Storms Camille and Debbie
29	15 35 32	Half Scan Tropical Storms Camille and Debbie
30	15 48 27	Half Scan Tropical Storms Camille and Debbie
31	16 01 09	Half Scan Tropical Storms Camille and Debbie
32	16 14 09	Half Scan Tropical Storms Camille and Debbie
33	16 27 01	Half Scan Tropical Storms Camille and Debbie
34	16 39 46	Half Scan Phasing Error Camille and Debbie
35	16 52 28	Half Scan Phasing Error Camille and Debbie
36	17 05 17	Half Scan Phasing Error Camille and Debbie
37	17 18 22	Half Scan Phasing Error Camille and Debbie
38	17 31 11	Half Scan Phasing Error Camille and Debbie
39	19 57 08	Half Scan Phasing Error Camille and Debbie
40	20 09 56	Half Scan Phasing Error Camille and Debbie
41	20 22 42	Half Scan Phasing Error Camille and Debbie
42	20 35 24	Half Scan Phasing Error Camille and Debbie
43	20 48 13	Half Scan Phasing Error Camille
44	21 00 58	Half Scan Phasing Error Camille
45	21 13 43	Half Scan Phasing Error Camille
46	21 34 05	Half Scan Phasing Error Camille
47	21 46 51	Half Scan Phasing Error Camille
48	21 59 36	Half Scan Phasing Error Camille
49	22 21 04	Half Scan Phasing Error Camille
50	22 33 49	Half Scan Phasing Error Camille
51	22 46 34	Half Scan Phasing Error Camille
52	22 59 20	Half Scan Phasing Error Camille



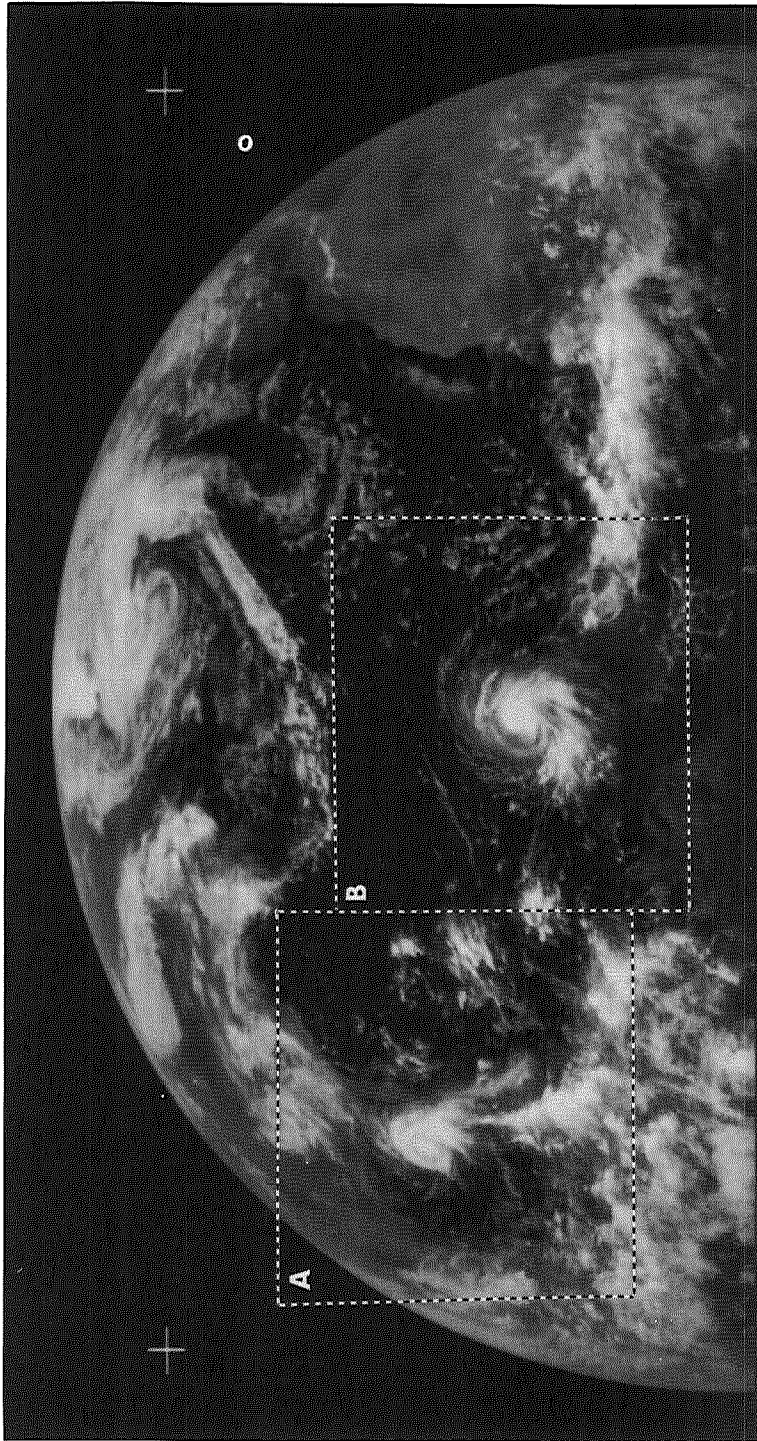
ATS-III MSSCC 15 AUG 69 15 09 53 Z 27

MSSCC

16 Aug 69

SSP 48.09W 0.07S

Seq	End Time	Remarks
1	09 25 58	Half Scan
2	09 38 54	Half Scan Hurricane Debbie
3	09 52 15	No Data
4	10 05 10	Half Scan Hurricane Debbie
5	10 18 07	Half Scan Hurricane Debbie
6	10 31 01	Half Scan Hurricane Debbie
7	10 43 47	Half Scan Hurricane Debbie
8	11 01 14	Half Scan Hurricane Debbie
9	11 14 00	Half Scan Hurricane Debbie
10	11 26 59	Half Scan Hurricane Debbie
11	11 40 09	Half Scan Hurricane Debbie
12	11 53 00	Half Scan Hurricane Debbie
13	12 06 47	Half Scan Hurricane Debbie
14	12 19 36	Half Scan Hurricanes Camille and Debbie
15	12 32 48	Half Scan Hurricanes Camille and Debbie
16	12 45 48	Half Scan Hurricanes Camille and Debbie
17	12 58 33	Half Scan Hurricanes Camille and Debbie
18	13 11 22	Half Scan Hurricanes Camille and Debbie
19	13 24 19	Half Scan Hurricanes Camille and Debbie
20	13 37 19	Half Scan Hurricanes Camille and Debbie
21	13 50 04	Half Scan Hurricanes Camille and Debbie
22	14 02 59	Half Scan Hurricanes Camille and Debbie
23	14 15 41	Half Scan Hurricanes Camille and Debbie
24	14 28 29	Half Scan Hurricanes Camille and Debbie
25	14 41 27	Half Scan Hurricanes Camille and Debbie
26	14 54 15	Half Scan Hurricanes Camille and Debbie
27	15 07 06	Half Scan Hurricanes Camille and Debbie
28	15 20 12	Half Scan Hurricanes Camille and Debbie
29	15 32 58	Half Scan Hurricanes Camille and Debbie
30	15 45 58	Half Scan Hurricanes Camille and Debbie
31	15 59 01	Half Scan Hurricanes Camille and Debbie
32	16 11 46	Half Scan Hurricanes Camille and Debbie
33	16 24 32	Half Scan Hurricanes Camille and Debbie
34	16 37 14	Half Scan Hurricanes Camille and Debbie
35	16 50 00	Half Scan Hurricanes Camille and Debbie
36	17 03 00	Half Scan Hurricanes Camille and Debbie
37	17 15 48	Half Scan Hurricanes Camille and Debbie
38	17 28 34	Half Scan Hurricanes Camille and Debbie
39	17 41 16	Half Scan Hurricanes Camille and Debbie
40	19 29 59	Half Scan Hurricanes Camille and Debbie
41	19 42 44	Half Scan Hurricanes Camille and Debbie
42	19 55 30	Half Scan Hurricanes Camille and Debbie
43	20 08 15	Half Scan Hurricanes Camille and Debbie
44	20 21 01	Half Scan Hurricanes Camille and Debbie
45	20 47 39	Half Scan Hurricanes Camille and Debbie
46	20 59 26	Half Scan Hurricanes Camille and Debbie
47	21 12 08	Half Scan Hurricane Camille
48	21 24 53	Half Scan Hurricane Camille
49	21 40 01	Half Scan Hurricane Camille
50	21 52 47	Half Scan Hurricane Camille
51	22 05 32	Half Scan Hurricane Camille
52	22 18 17	Half Scan Hurricane Camille
53	22 31 02	Half Scan Hurricane Camille
54	22 43 48	Half Scan Hurricane Camille
55	22 56 33	Half Scan Hurricane Camille



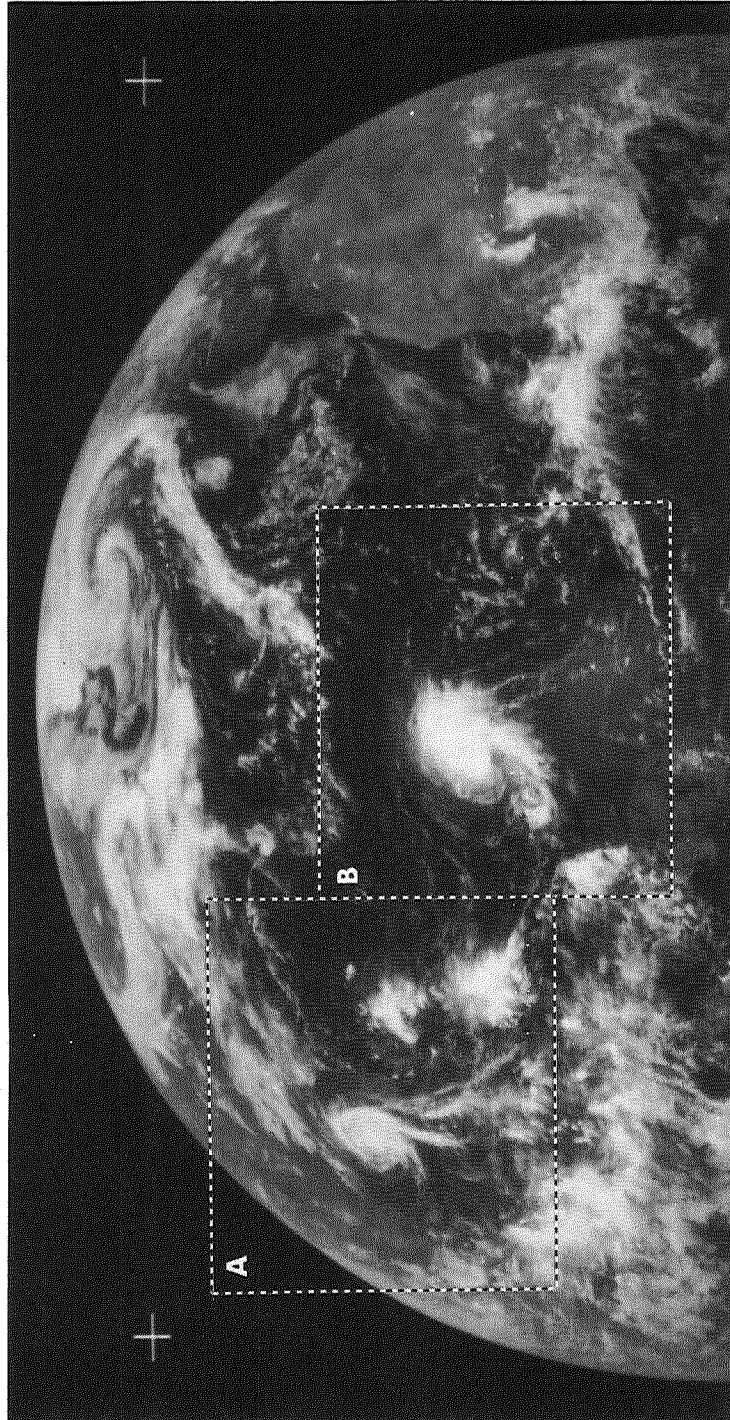
ATS-III MSSCC 16 AUG 69 15 07 06 Z 27

MSSCC

17 Aug 69

SSP 48.20W 0.07S

Seq	End Time	Remarks
1	09 23 20	Half Scan Slight Phasing Error Picture Good
2	09 36 02	Half Scan Slight Phasing Error Picture Good
3	09 49 53	Half Scan Slight Phasing Error Picture Fair
4	10 02 44	Half Scan Hurricane Debbie
5	10 15 35	Half Scan Hurricane Debbie
6	10 28 30	Half Scan Hurricane Debbie Few Dropouts
7	10 41 12	Half Scan Hurricane Debbie
8	10 53 54	Half Scan Hurricane Debbie
9	11 06 54	No Data
10	11 24 25	Half Scan Hurricane Debbie
11	11 37 10	Half Scan Hurricane Debbie
12	11 50 04	Half Scan Hurricane Debbie
13	12 02 53	Half Scan Hurricanes Camille and Debbie
14	12 15 47	Half Scan Hurricanes Camille and Debbie
15	12 28 32	Half Scan Hurricanes Camille and Debbie
16	12 41 21	Half Scan Hurricanes Camille and Debbie
17	12 53 25	Half Scan Hurricanes Camille and Debbie Dropouts
18	13 06 19	Half Scan Hurricanes Camille and Debbie
19	13 19 13	Half Scan Hurricanes Camille and Debbie
20	13 32 01	Half Scan Hurricanes Camille and Debbie
21	13 44 52	Half Scan Hurricanes Camille and Debbie
22	13 57 44	Half Scan Hurricanes Camille and Debbie
23	14 10 44	Half Scan Hurricanes Camille and Debbie
24	14 23 35	Half Scan Hurricanes Camille and Debbie
25	14 36 21	Half Scan Hurricanes Camille and Debbie
26	14 49 06	Half Scan Hurricanes Camille and Debbie
27	15 01 51	Half Scan Hurricanes Camille and Debbie
28	15 14 43	Half Scan Hurricanes Camille and Debbie
29	15 27 28	Half Scan Hurricanes Camille and Debbie
30	15 40 49	Half Scan Hurricanes Camille and Debbie
31	15 53 37	Half Scan Hurricanes Camille and Debbie Dropouts
32	16 06 25	Half Scan Hurricanes Camille and Debbie
33	16 19 08	Half Scan Hurricanes Camille and Debbie
34	16 32 20	Half Scan Hurricanes Camille and Debbie
35	16 45 14	Half Scan Hurricanes Camille and Debbie
36	16 57 57	Half Scan Hurricanes Camille and Debbie
37	17 10 45	Half Scan Hurricanes Camille and Debbie
38	17 23 33	Half Scan Hurricanes Camille and Debbie
39	17 36 16	Half Scan Hurricanes Camille and Debbie
40	19 12 47	Half Scan Hurricanes Camille and Debbie
41	19 25 52	Half Scan Hurricanes Camille and Debbie
42	19 46 12	Half Scan Hurricanes Camille and Debbie
43	19 58 57	Half Scan Hurricanes Camille and Debbie
44	20 11 43	Half Scan Hurricanes Camille and Debbie
45	20 24 28	Half Scan Hurricanes Camille and Debbie
46	20 37 13	Half Scan Hurricanes Camille and Debbie
47	20 49 59	Half Scan Hurricanes Camille and Debbie
48	21 02 44	Half Scan Hurricanes Camille and Debbie
49	21 15 29	Half Scan Hurricanes Camille and Debbie
50	21 28 15	Half Scan Hurricane Camille
51	21 41 00	Half Scan Hurricane Camille
52	21 53 42	Half Scan Hurricane Camille
53	22 06 31	Half Scan Hurricane Camille
54	22 19 16	Half Scan Hurricane Camille
55	22 32 02	Half Scan Hurricane Camille
56	22 44 47	Half Scan Hurricane Camille



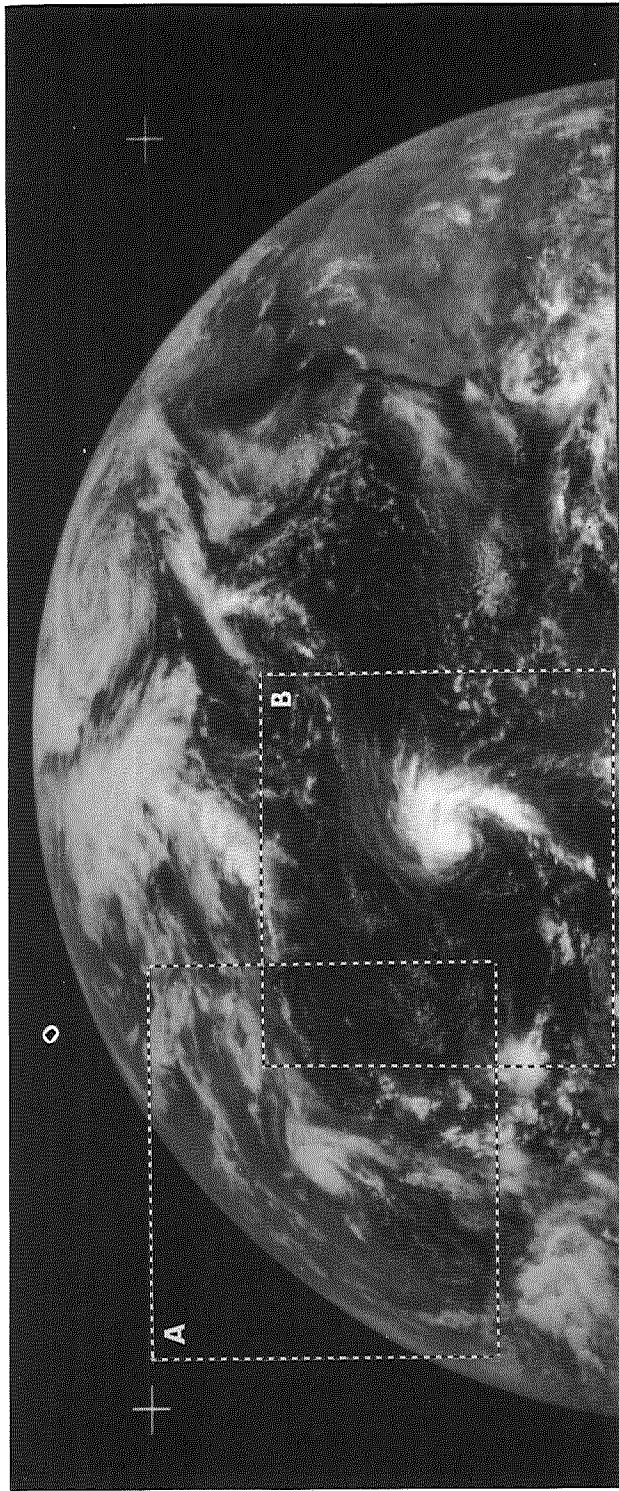
ATS-III MSSCC 17 AUG 69 15 01 51 Z 27

MSSCC

18 Aug 69

SSP 48.31W 0.07S

Seq	End Time	Remarks
1	09 36 46	Half Scan
2	09 49 29	Half Scan
3	10 02 08	Half Scan Hurricane Debbie
4	10 14 53	Half Scan Hurricane Debbie
5	10 27 42	Half Scan Hurricane Debbie
6	10 40 48	Half Scan Hurricane Debbie
7	10 53 39	Half Scan Hurricane Debbie
8	11 06 25	Half Scan Hurricane Debbie
9	11 19 04	Half Scan Hurricane Debbie
10	11 31 49	Half Scan Hurricane Debbie
11	11 44 58	Half Scan Hurricane Debbie Dropout
12	11 57 37	Half Scan Hurricane Debbie
13	12 12 37	Half Scan Hurricane Debbie
14	12 29 58	Half Scan Hurricanes Camille and Debbie
15	12 47 00	Half Scan Hurricanes Camille and Debbie
16	13 00 00	Half Scan Hurricanes Camille and Debbie
17	13 13 13	Half Scan Hurricanes Camille and Debbie
18	13 26 19	No Data
19	13 39 43	Half Scan Hurricanes Camille and Debbie
20	13 53 09	Half Scan Hurricanes Camille and Debbie
21	14 05 59	No Data
22	14 19 57	Half Scan Hurricanes Camille and Debbie
23	14 32 26	Half Scan Hurricanes Camille and Debbie
24	14 45 50	Half Scan Hurricanes Camille and Debbie
25	15 07 25	Half Scan Hurricanes Camille and Debbie
26	15 21 40	No Data
27	15 42 06	Half Scan Phasing Error Camille and Debbie
28	15 55 07	Half Scan Phasing Error Camille and Debbie
29	16 08 40	Half Scan Hurricanes Camille and Debbie
30	16 22 33	Half Scan Hurricanes Camille and Debbie
31	16 37 15	Half Scan Hurricanes Camille and Debbie
32	16 51 05	Half Scan Hurricanes Camille and Debbie
33	17 05 08	Half Scan Phasing Error Camille and Debbie
34	17 17 59	No Data
35	17 31 48	Half Scan Poor Contrast Camille and Debbie
36	17 47 26	Half Scan Phasing Error Camille and Debbie
37	19 04 25	Half Scan Hurricanes Camille and Debbie
38	19 35 08	Half Scan Poor Contrast Camille and Debbie
39	19 50 29	Half Scan Poor Contrast Camille and Debbie
40	20 19 48	Half Scan Poor Contrast Camille and Debbie
41	20 34 29	Half Scan Poor Contrast Camille and Debbie
42	20 49 25	Half Scan Poor Contrast Camille and Debbie
43	21 04 00	Half Scan Poor Contrast Camille and Debbie
44	21 18 05	Half Scan Hurricanes Camille and Debbie
45	21 32 05	Half Scan Noise Hurricanes Camille and Debbie
46	21 46 14	Half Scan Hurricane Camille Contrast Change
47	22 00 31	Half Scan Noise Hurricane Camille
48	22 14 39	Half Scan Hurricane Camille
49	22 28 45	Half Scan Hurricane Camille
50	22 43 11	Half Scan Hurricane Camille
51	22 59 49	Half Scan Hurricane Camille



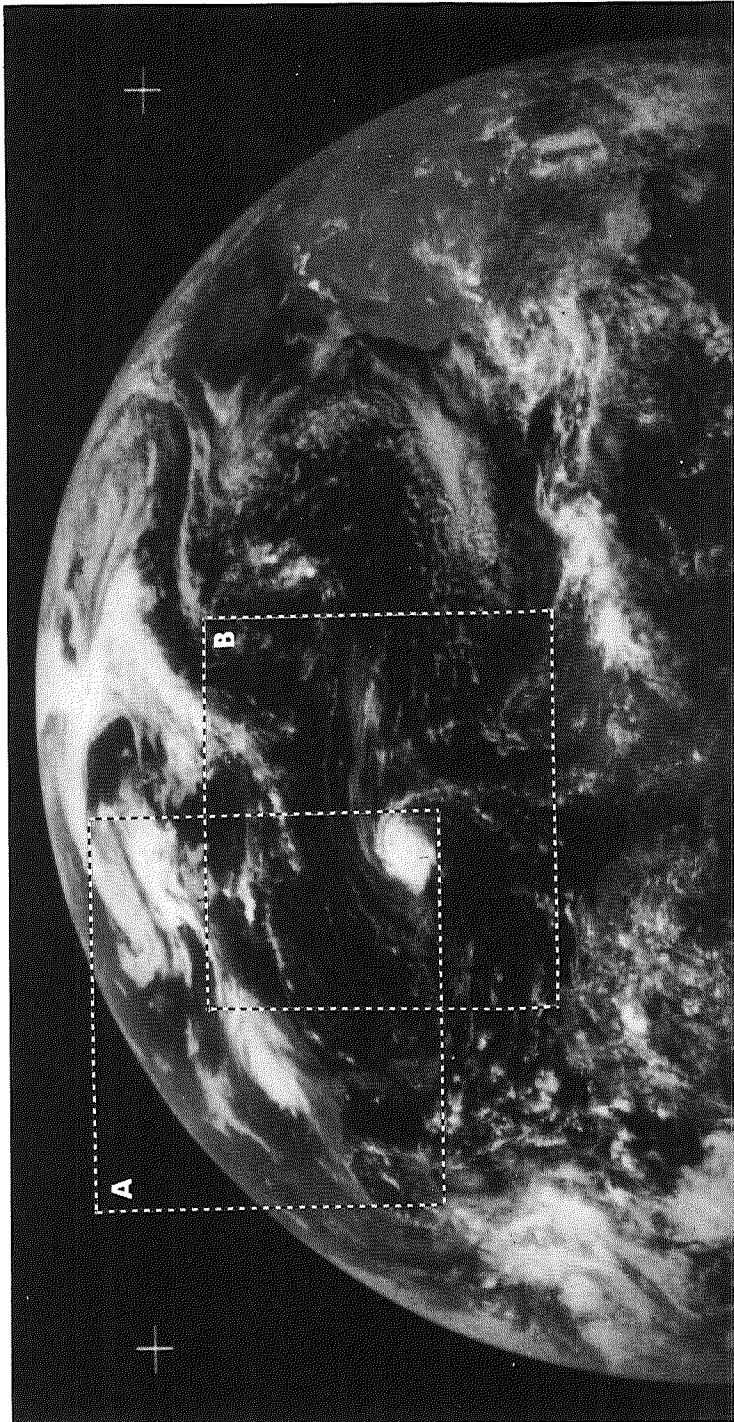
ATS-III MSSCC 18 AUG 69 14 45 50 Z 24

MSSCC

19 Aug 69

SSP 48.42W 0.06S

Seq	End Time	Remarks
1	09 26 15	Half Scan
2	09 41 57	Half Scan
3	09 57 43	Half Scan
4	10 13 02	Half Scan Hurricane Debbie
5	10 28 34	Half Scan Hurricane Debbie
6	10 44 08	Half Scan Hurricane Debbie
7	10 59 28	Half Scan Hurricane Debbie
8	11 15 03	Half Scan Hurricane Debbie
9	11 30 46	Half Scan Hurricane Debbie
10	11 46 08	Half Scan Hurricane Debbie
11	12 01 40	Half Scan Hurricane Debbie
12	12 17 20	Half Scan Hurricane Debbie
13	12 33 48	Half Scan Hurricane Debbie
14	12 49 22	Half Scan Hurricane Debbie
15	13 05 12	Half Scan Hurricane Debbie
16	13 20 23	Half Scan Hurricane Debbie
17	13 35 45	Half Scan Hurricane Debbie
18	13 51 05	Half Scan Hurricane Debbie
19	14 06 36	Half Scan Hurricane Debbie
20	14 22 50	Half Scan Hurricane Debbie
21	14 38 27	Half Scan Hurricane Debbie
22	14 54 13	Half Scan Hurricane Debbie
23	15 10 00	Half Scan Hurricane Debbie
24	15 25 39	Half Scan Hurricane Debbie
25	15 41 20	Half Scan Hurricane Debbie
26	15 56 55	Half Scan Hurricane Debbie
27	16 11 38	Half Scan Hurricane Debbie
28	16 25 03	Half Scan Hurricane Debbie
29	16 37 49	Half Scan Hurricane Debbie
30	16 50 34	Half Scan Hurricane Debbie
31	17 03 19	Half Scan Hurricane Debbie
32	17 16 05	Half Scan Hurricane Debbie
33	17 28 50	Half Scan Hurricane Debbie
34	17 41 36	Half Scan Hurricane Debbie
35	18 07 21	Half Scan Hurricane Debbie
36	18 20 07	Half Scan Hurricane Debbie
37	18 32 52	Half Scan Hurricane Debbie
38	18 45 38	Half Scan Hurricane Debbie
39	18 58 23	Half Scan Hurricane Debbie
40	19 18 42	Half Scan Hurricane Debbie
41	19 31 27	Half Scan Hurricane Debbie
42	19 44 13	Half Scan Hurricane Debbie
43	19 56 58	Half Scan Hurricane Debbie
44	20 12 06	Half Scan Hurricane Debbie
45	20 24 54	Half Scan Hurricane Debbie
46	20 37 39	Half Scan Hurricane Debbie
47	20 50 25	Half Scan Hurricane Debbie
48	21 03 10	Half Scan Hurricane Debbie
49	21 15 55	Half Scan Hurricane Debbie
50	21 28 44	Half Scan Hurricane Debbie
51	21 41 39	Half Scan Hurricane Debbie
52	21 57 30	Half Scan Hurricane Debbie
53	22 10 19	Half Scan Hurricane Debbie
54	22 23 04	Half Scan Hurricane Debbie
55	22 35 52	Half Scan Hurricane Debbie
56	22 48 40	Half Scan Hurricane Debbie



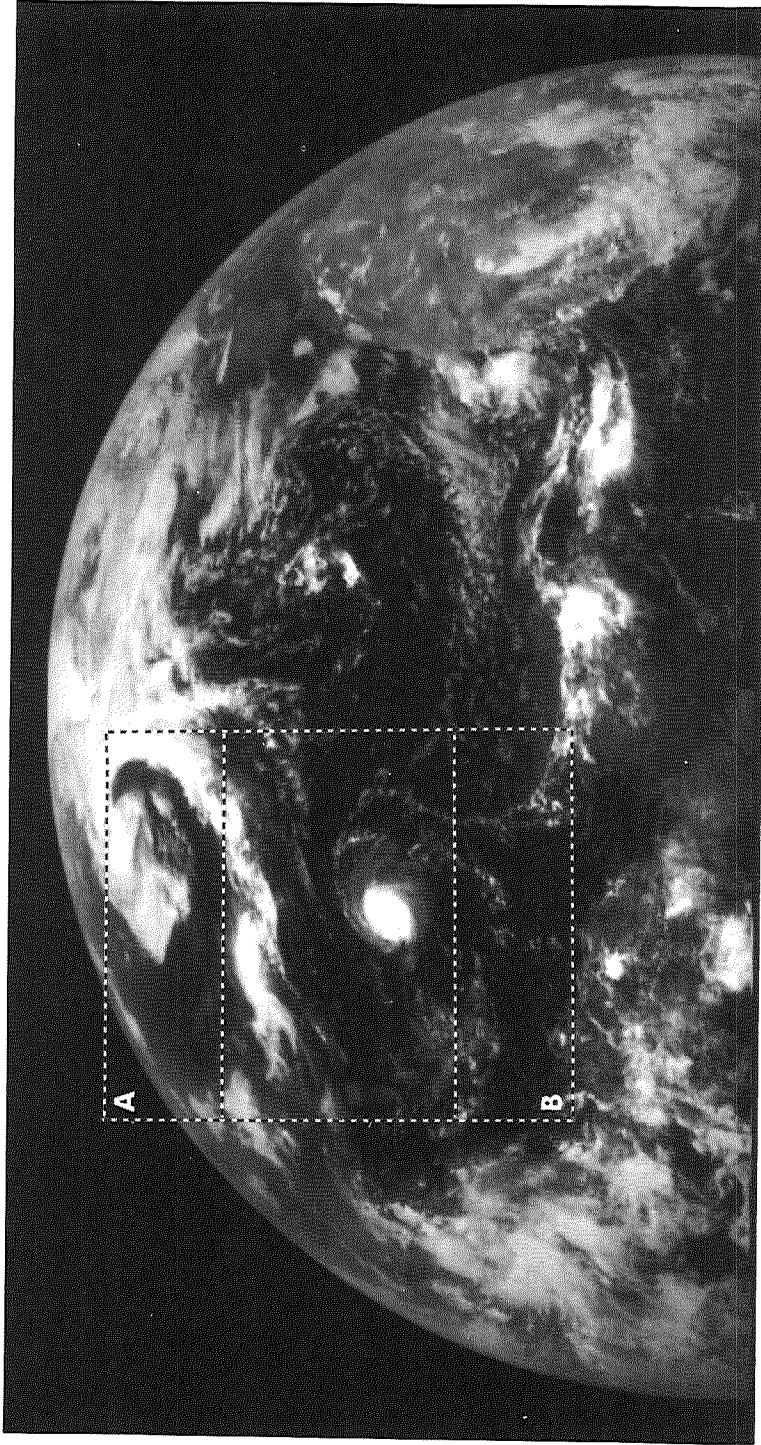
ATS-III MSSCC 19 AUG 69 15 10 00 Z 23

MSSCC

20 Aug 69

SSP 48.53W 0.06S

Seq	End Time	Remarks
1	09 56 06	Half Scan
2	10 08 54	Half Scan
3	10 21 39	Half Scan
4	10 34 25	Half Scan Hurricane Debbie
5	10 47 13	Half Scan Hurricane Debbie
6	11 00 07	Half Scan Hurricane Debbie
7	11 13 07	Half Scan Hurricane Debbie
8	11 25 56	Half Scan Hurricane Debbie
9	11 38 41	Half Scan Hurricane Debbie
10	11 51 24	Half Scan Hurricane Debbie
11	12 04 09	Half Scan Hurricane Debbie
12	12 17 00	Half Scan Hurricane Debbie
13	12 29 48	Half Scan Hurricane Debbie
14	12 42 49	Half Scan Hurricane Debbie
15	12 55 37	Half Scan Hurricane Debbie
16	13 08 19	Half Scan Hurricane Debbie
17	13 21 05	Half Scan Hurricane Debbie
18	13 33 53	Half Scan Hurricane Debbie
19	13 46 35	Half Scan Hurricane Debbie
20	13 59 21	Half Scan Hurricane Debbie
21	14 12 09	Half Scan Hurricane Debbie
22	14 25 16	Half Scan Hurricane Debbie
23	14 37 58	Half Scan Hurricane Debbie
24	14 50 55	Half Scan Hurricane Debbie
25	15 03 43	Half Scan Hurricane Debbie
26	15 16 40	Half Scan Hurricane Debbie
27	15 29 32	Half Scan Hurricane Debbie
28	15 42 14	Half Scan Hurricane Debbie
29	15 57 16	Half Scan Hurricane Debbie
30	16 10 15	Half Scan Hurricane Debbie
31	16 32 08	Half Scan Hurricane Debbie
32	16 35 53	Half Scan Hurricane Debbie
33	16 48 44	Half Scan Hurricane Debbie
34	17 01 42	Half Scan Hurricane Debbie
35	17 14 18	Half Scan Hurricane Debbie
36	17 27 03	Half Scan Hurricane Debbie
37	17 39 49	Half Scan Hurricane Debbie
38	17 52 34	Half Scan Hurricane Debbie
39	18 05 20	Half Scan Hurricane Debbie
40	18 18 05	Half Scan Hurricane Debbie
41	18 30 50	Half Scan Hurricane Debbie
42	18 43 35	Half Scan Hurricane Debbie
43	18 56 21	Half Scan Hurricane Debbie
44	19 17 51	Half Scan Hurricane Debbie
45	19 30 51	Half Scan Hurricane Debbie
46	19 43 37	Half Scan Hurricane Debbie
47	19 56 25	Half Scan Hurricane Debbie
48	20 14 49	Half Scan Hurricane Debbie
49	20 27 34	Half Scan Hurricane Debbie
50	20 40 26	Half Scan Hurricane Debbie
51	20 53 14	Half Scan Hurricane Debbie



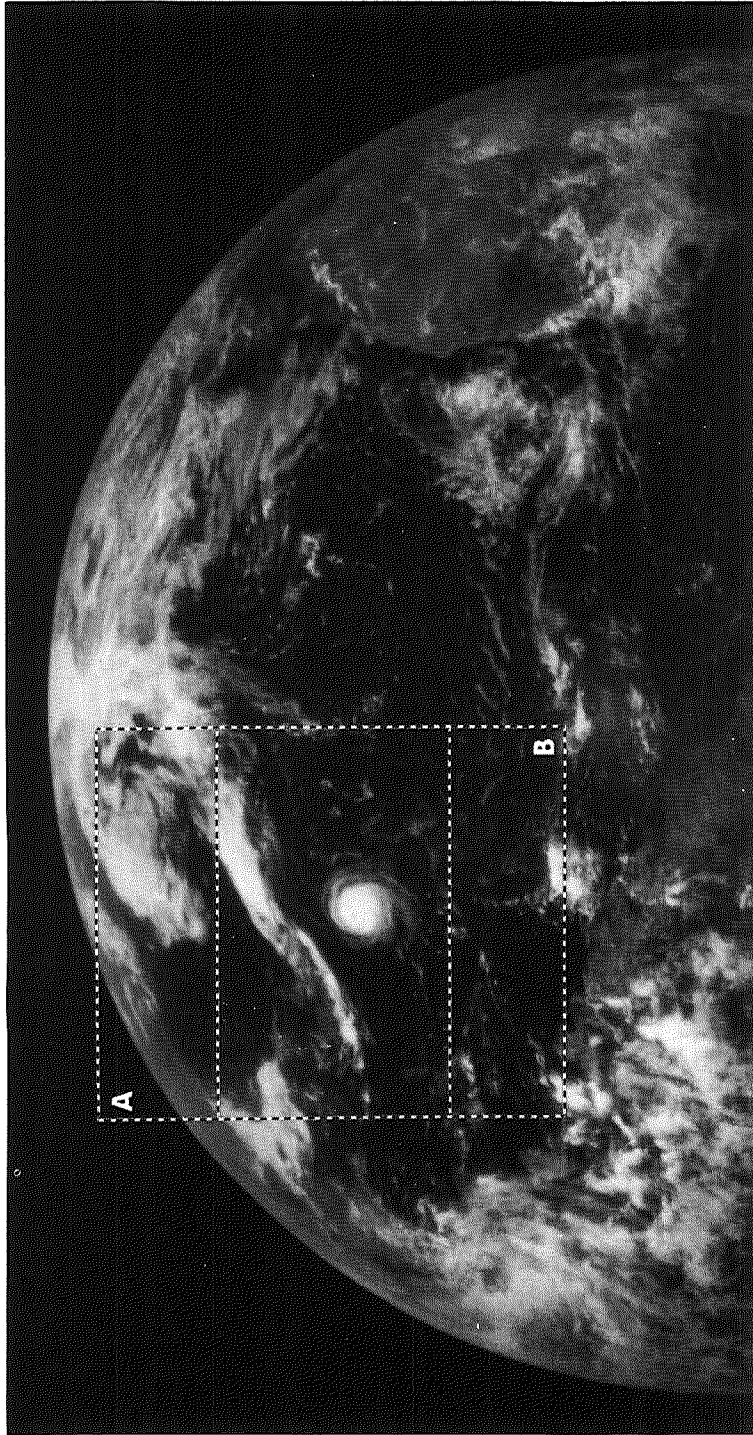
ATS-III MSSCC 20 AUG 69 14 50 55 Z 24

MSSCC

21 Aug 69

SSP 48.65W 0.06S

Seq	End Time	Remarks
1	09 31 33	Half Scan
2	09 44 37	Half Scan
3	09 57 29	Half Scan
4	10 10 14	Half Scan
5	10 23 02	Half Scan
6	10 36 00	Half Scan Hurricane Debbie
7	10 48 51	Half Scan Hurricane Debbie
8	10 58 50	Half Scan Hurricane Debbie
9	11 13 34	Half Scan Hurricane Debbie
10	11 26 22	Half Scan Hurricane Debbie
11	11 39 11	Half Scan Hurricane Debbie
12	11 51 56	Half Scan Hurricane Debbie
13	12 04 44	Half Scan Hurricane Debbie
14	12 17 36	Half Scan Hurricane Debbie
15	12 30 33	Half Scan Hurricane Debbie
16	12 43 24	Half Scan Hurricane Debbie
17	12 56 21	Half Scan Hurricane Debbie
18	13 09 10	Half Scan Hurricane Debbie
19	13 22 10	Half Scan Hurricane Debbie
20	13 34 58	Half Scan Hurricane Debbie
21	13 50 14	Half Scan Hurricane Debbie
22	14 02 57	Half Scan Hurricane Debbie
23	14 15 42	Half Scan Hurricane Debbie Noise
24	14 28 31	Half Scan Hurricane Debbie
25	14 41 34	Half Scan Hurricane Debbie
26	14 54 33	Half Scan Hurricane Debbie
27	15 07 23	Half Scan Hurricane Debbie
28	15 20 11	Half Scan Hurricane Debbie
29	15 32 59	Half Scan Hurricane Debbie
30	15 45 50	Half Scan Hurricane Debbie
31	15 58 39	Half Scan Hurricane Debbie
32	16 11 24	Half Scan Hurricane Debbie
33	16 24 15	Half Scan Hurricane Debbie
34	16 37 04	Half Scan Hurricane Debbie Noise
35	16 50 10	Half Scan Hurricane Debbie Noise
36	17 03 17	Half Scan Hurricane Debbie Noise
37	17 16 17	Half Scan Hurricane Debbie Noise
38	17 29 03	Half Scan Hurricane Debbie Noise
39	17 41 53	Half Scan Hurricane Debbie
40	17 54 59	Half Scan Hurricane Debbie
41	18 07 47	Half Scan Hurricane Debbie
42	18 20 36	Half Scan Hurricane Debbie
43	18 39 11	Half Scan Hurricane Debbie Noise
44	18 54 31	Half Scan Hurricane Debbie
45	19 07 19	Half Scan Hurricane Debbie
46	19 20 07	Half Scan Hurricane Debbie
47	19 33 02	Half Scan Hurricane Debbie
48	19 45 50	Half Scan Hurricane Debbie
49	19 58 38	Half Scan Hurricane Debbie
50	20 21 27	Half Scan Hurricane Debbie
51	20 24 15	Half Scan Hurricane Debbie
52	20 37 03	Half Scan Hurricane Debbie
53	20 50 21	Half Scan Hurricane Debbie



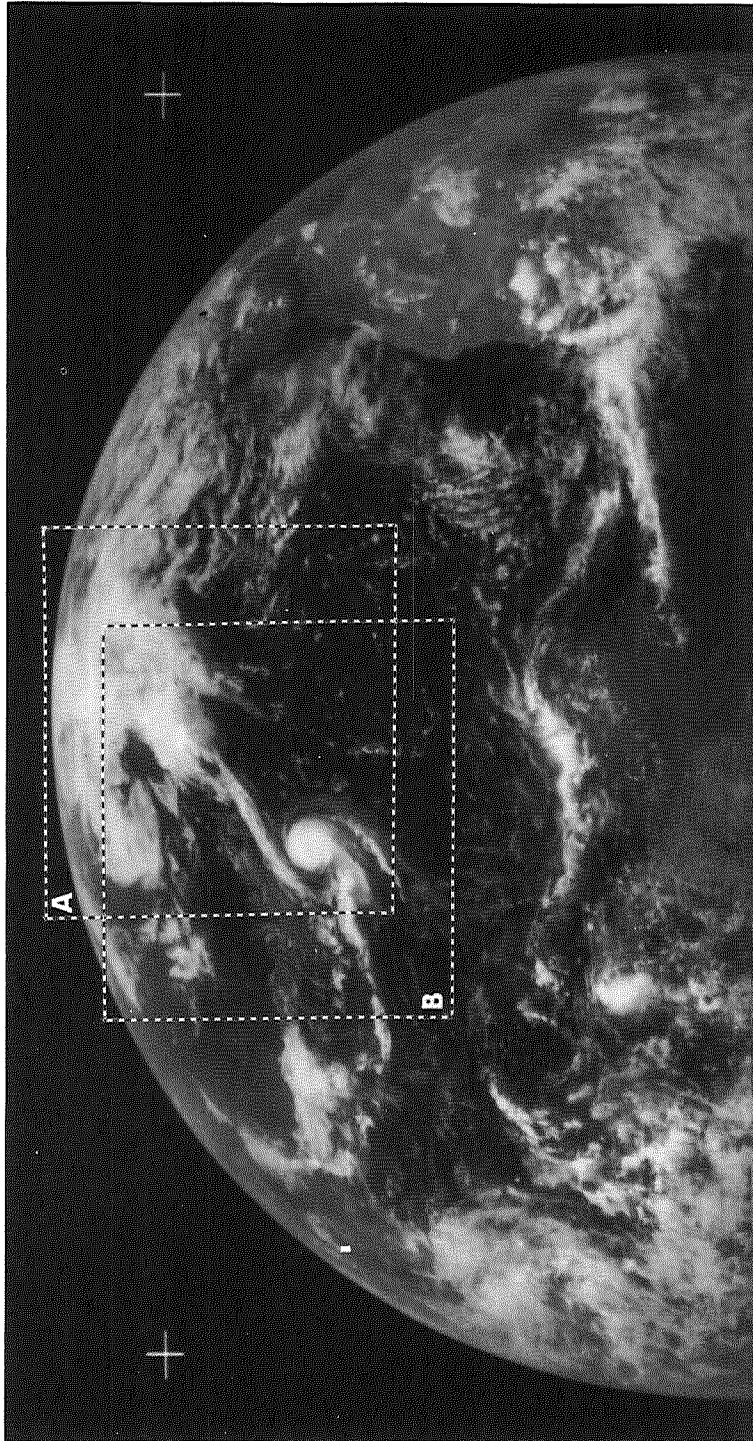
ATS-III MSSCC 21 AUG 69 15 07 23 Z 27

MSSCC

22 Aug 69

SSP 48.76W 0.05S

Seq	End Time	Remarks
1	09 34 46	Half Scan
2	09 47 41	Half Scan
3	10 00 32	Half Scan
4	10 14 23	Half Scan 25 Line Dropout
5	10 27 20	Half Scan Hurricane Debbie
6	10 40 17	Half Scan Hurricane Debbie
7	10 53 08	Half Scan Hurricane Debbie
8	11 05 54	Half Scan Hurricane Debbie
9	11 18 48	Half Scan Hurricane Debbie
10	11 31 43	Half Scan Hurricane Debbie
11	11 44 28	Half Scan Hurricane Debbie
12	11 57 13	Half Scan Hurricane Debbie
13	12 10 04	Half Scan Hurricane Debbie Noise
14	12 23 02	Half Scan Hurricane Debbie
15	12 36 17	Half Scan Hurricane Debbie
16	12 49 26	Half Scan Hurricane Debbie
17	13 02 20	Half Scan Hurricane Debbie
18	13 15 05	Half Scan Hurricane Debbie
19	13 27 51	Half Scan Hurricane Debbie
20	13 40 45	Half Scan Hurricane Debbie
21	13 53 36	Half Scan Hurricane Debbie
22	14 06 28	Half Scan Hurricane Debbie
23	14 19 28	Half Scan Hurricane Debbie
24	14 32 16	Half Scan Hurricane Debbie
25	14 45 02	Half Scan Hurricane Debbie
26	14 57 53	Half Scan Hurricane Debbie
27	15 10 35	Half Scan Hurricane Debbie
28	15 23 32	Half Scan Hurricane Debbie
29	15 36 27	Half Scan Hurricane Debbie
30	15 49 30	Half Scan Hurricane Debbie
31	16 02 18	Half Scan Hurricane Debbie
32	16 15 36	Half Scan Hurricane Debbie
33	16 28 28	Half Scan Hurricane Debbie
34	16 41 34	Half Scan Hurricane Debbie
35	16 54 28	Half Scan Hurricane Debbie
36	17 07 13	Half Scan Hurricane Debbie
37	17 20 07	Half Scan Hurricane Debbie
38	17 32 56	Half Scan Hurricane Debbie
39	17 45 41	Half Scan Hurricane Debbie
40	17 58 33	Half Scan Hurricane Debbie
41	18 11 24	Half Scan Hurricane Debbie
42	18 24 12	Half Scan Hurricane Debbie
43	18 37 07	Half Scan Hurricane Debbie
44	18 49 57	Half Scan Hurricane Debbie
45	19 02 43	Half Scan Hurricane Debbie
46	19 15 28	Half Scan Hurricane Debbie
47	19 28 14	Half Scan Hurricane Debbie
48	19 40 59	Half Scan Hurricane Debbie
49	19 53 44	Half Scan Hurricane Debbie
50	20 06 33	Half Scan Hurricane Debbie
51	20 19 18	Half Scan Hurricane Debbie
52	20 32 06	Half Scan Hurricane Debbie
53	20 44 52	Half Scan Hurricane Debbie
54	20 57 37	Half Scan Hurricane Debbie



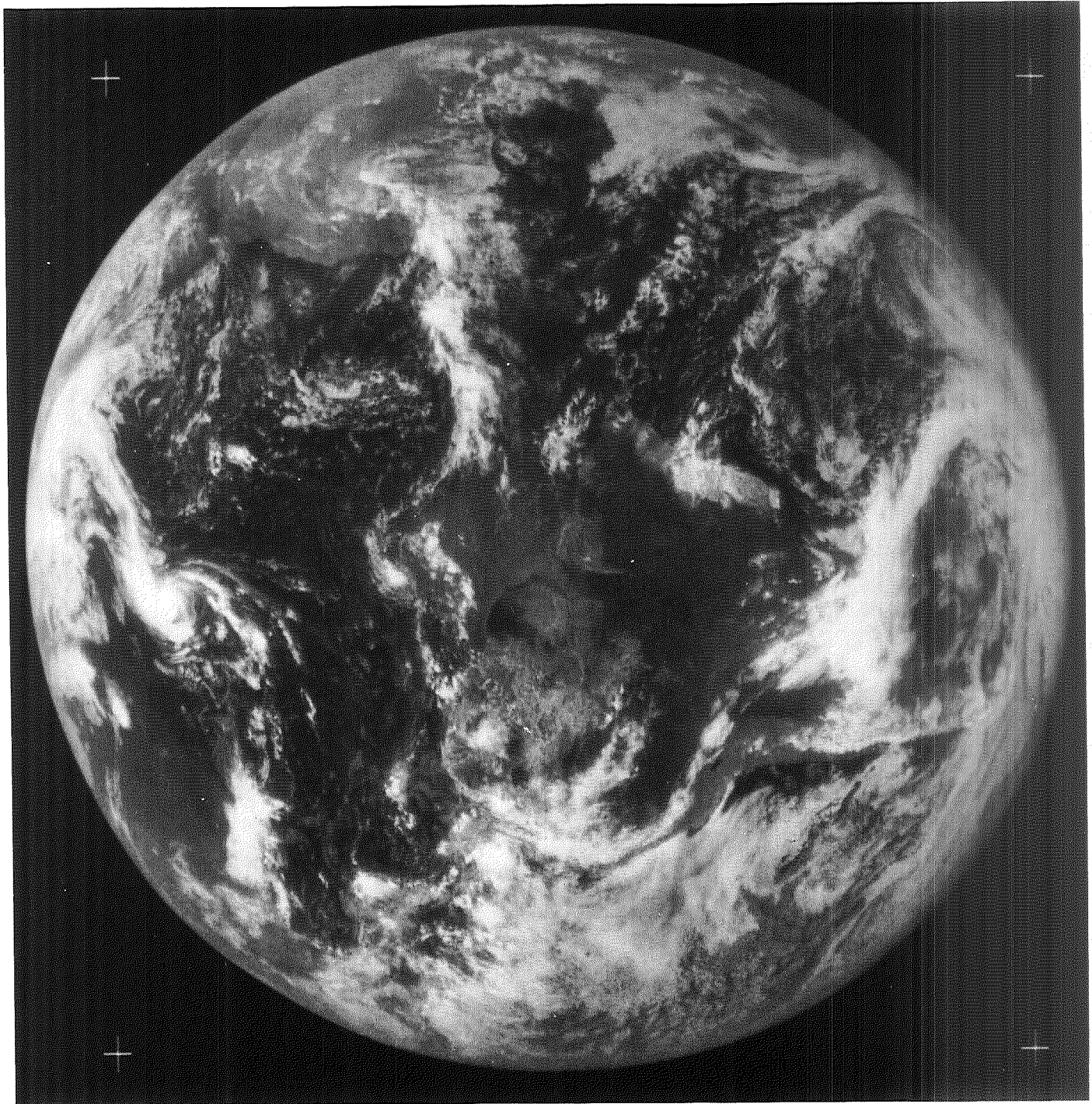
ATS-III MSSCC 22 AUG 69 14 57 53 Z 26

MSSCC

23 Aug 69

SSP 47.63W 0.16N

Seq	End Time	Remarks
1	10 18 30	Hurricane Debbie
2	15 26 07	Hurricane Debbie
3	15 51 44	Hurricane Debbie
4	16 17 21	Hurricane Debbie
5	16 42 57	Hurricane Debbie
6	17 08 34	Hurricane Debbie
7	17 34 10	Hurricane Debbie
8	17 59 47	Hurricane Debbie
9	20 57 41	Hurricane Debbie



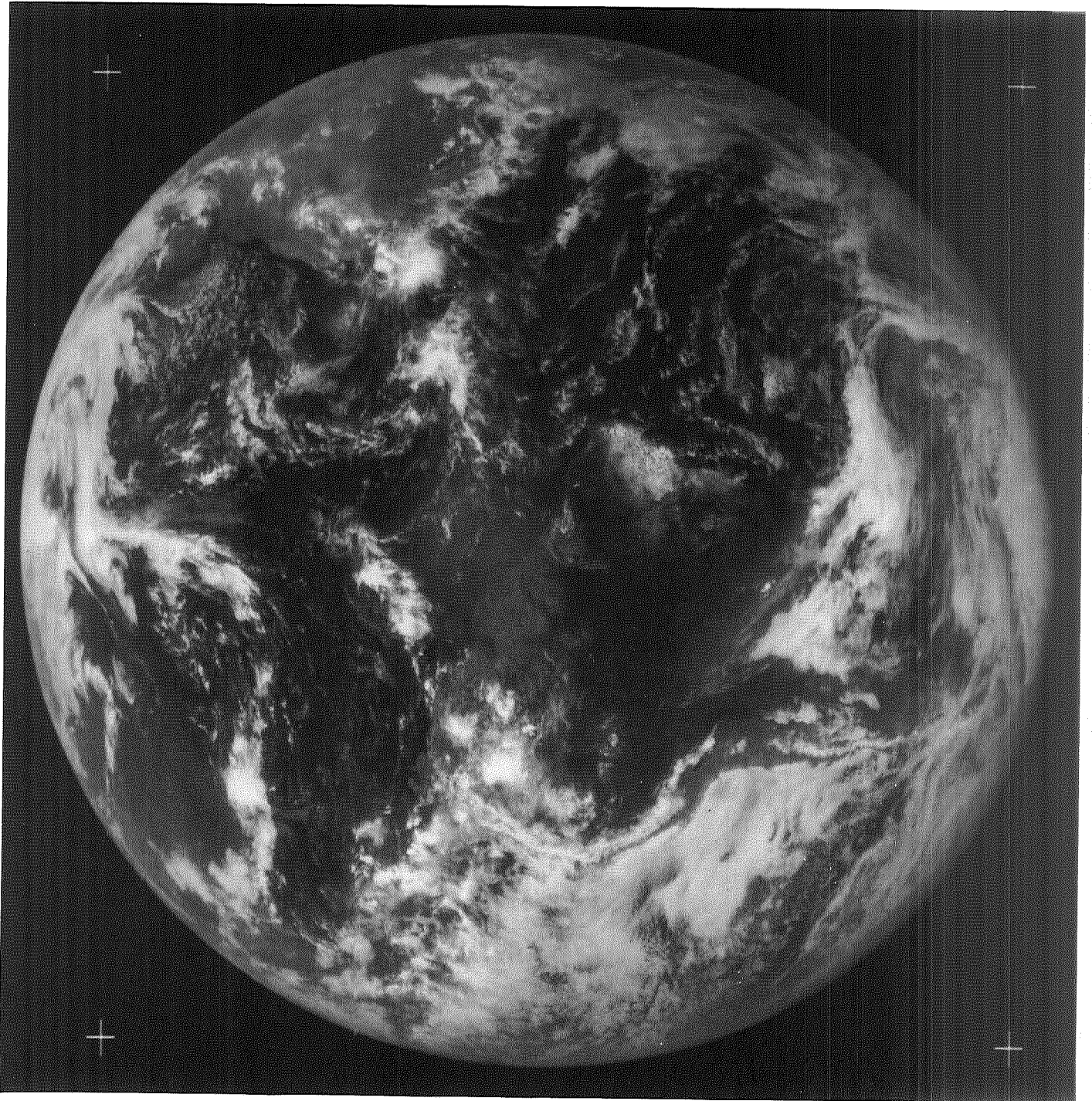
ATS-III MSSCC 23 AUG 69 15 26 07 Z 2

MSSCC

24 Aug 69

SSP 47.74W 0.16N

Seq	End Time	Remarks
1	10 40 58	Sync Errors Picture Fair
2	15 16 43	Sync Errors Picture Good
3	15 42 20	Sync Errors Picture Good
4	16 07 56	Sync Errors Picture Good
5	16 33 33	Sync Errors Picture Good
6	16 59 10	Sync Errors Picture Good
7	17 24 46	Sync Errors Picture Good
8	17 50 23	Sync Errors Picture Good



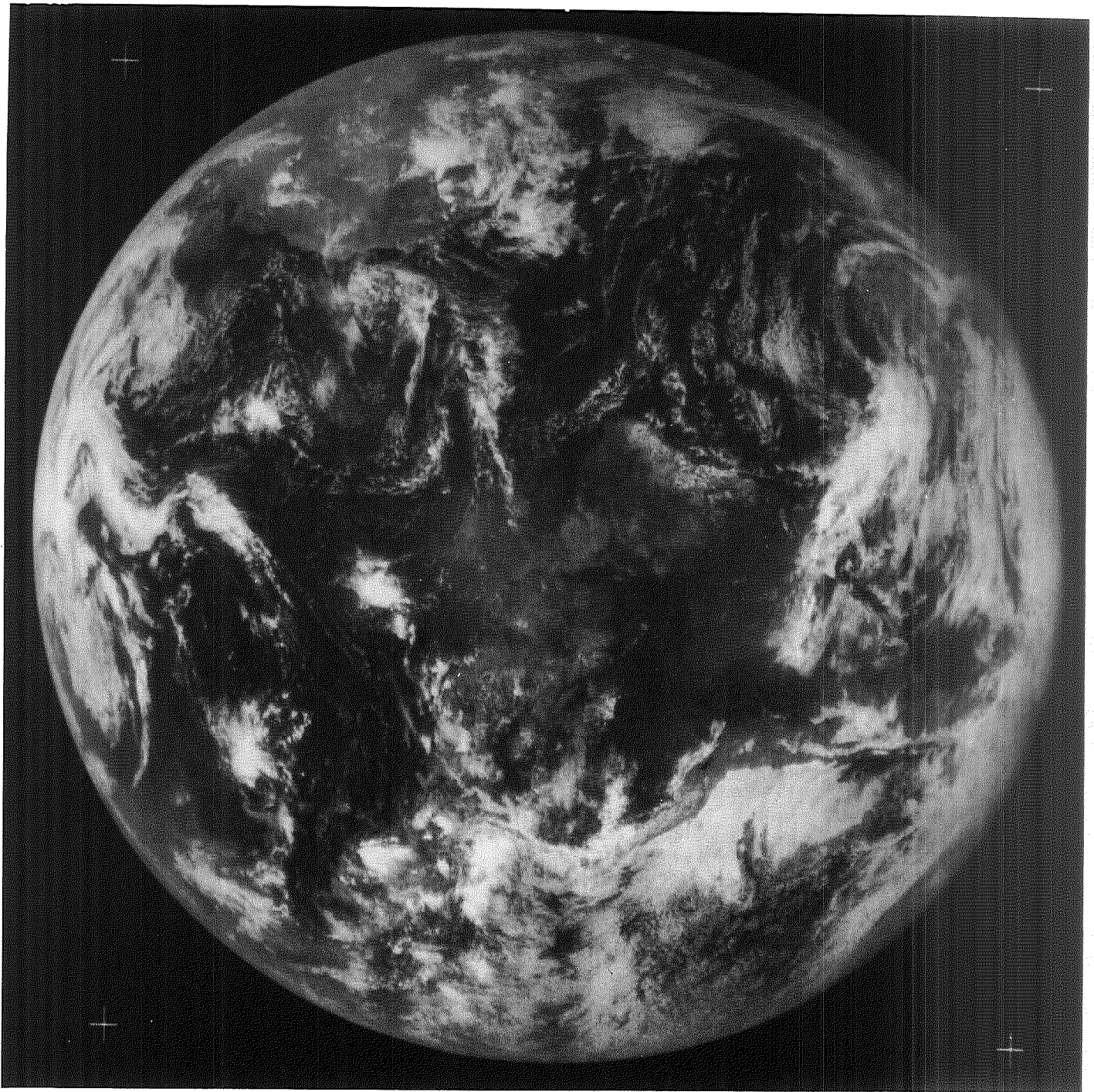
ATS-III MSSCC 24 AUG 69 15 16 43 Z 2

MSSCC

25 Aug 69

SSP 47.76W 0.01N

Seq	End Time	Remarks
1	10 44 32	
2	14 13 15	
3	14 39 27	Double Exposure
4	15 05 32	
5	15 31 06	Slight Sync Error Picture Good
6	15 56 46	
7	16 22 28	
8	16 36 30	Half Scan
9	16 49 15	Half Scan Noise Picture Good
10	17 02 00	Half Scan
11	17 14 49	Half Scan
12	17 27 40	Half Scan
13	17 40 37	Half Scan
14	17 53 14	Half Scan
15	18 06 02	Half Scan
16	18 18 50	Half Scan Slight Sync Error Picture Good
17	18 31 41	Half Scan Slight Sync Error Picture Good
18	18 44 33	Half Scan Slight Sync Error Picture Good
19	18 59 02	Half Scan Slight Sync Error Picture Good
20	19 13 28	Half Scan Slight Sync Error Picture Fair
21	19 26 17	Half Scan Slight Sync Error Picture Good
22	19 39 05	Half Scan Slight Sync Error Picture Good
23	19 51 53	Half Scan Slight Sync Error Picture Good
24	20 04 41	Half Scan Slight Sync Error Picture Good
25	20 17 30	Half Scan Slight Sync Error Picture Good
26	20 30 18	Half Scan Slight Sync Error Picture Good
27	20 43 06	Half Scan Slight Sync Error Picture Good
28	20 55 55	Half Scan Slight Sync Error Picture Good



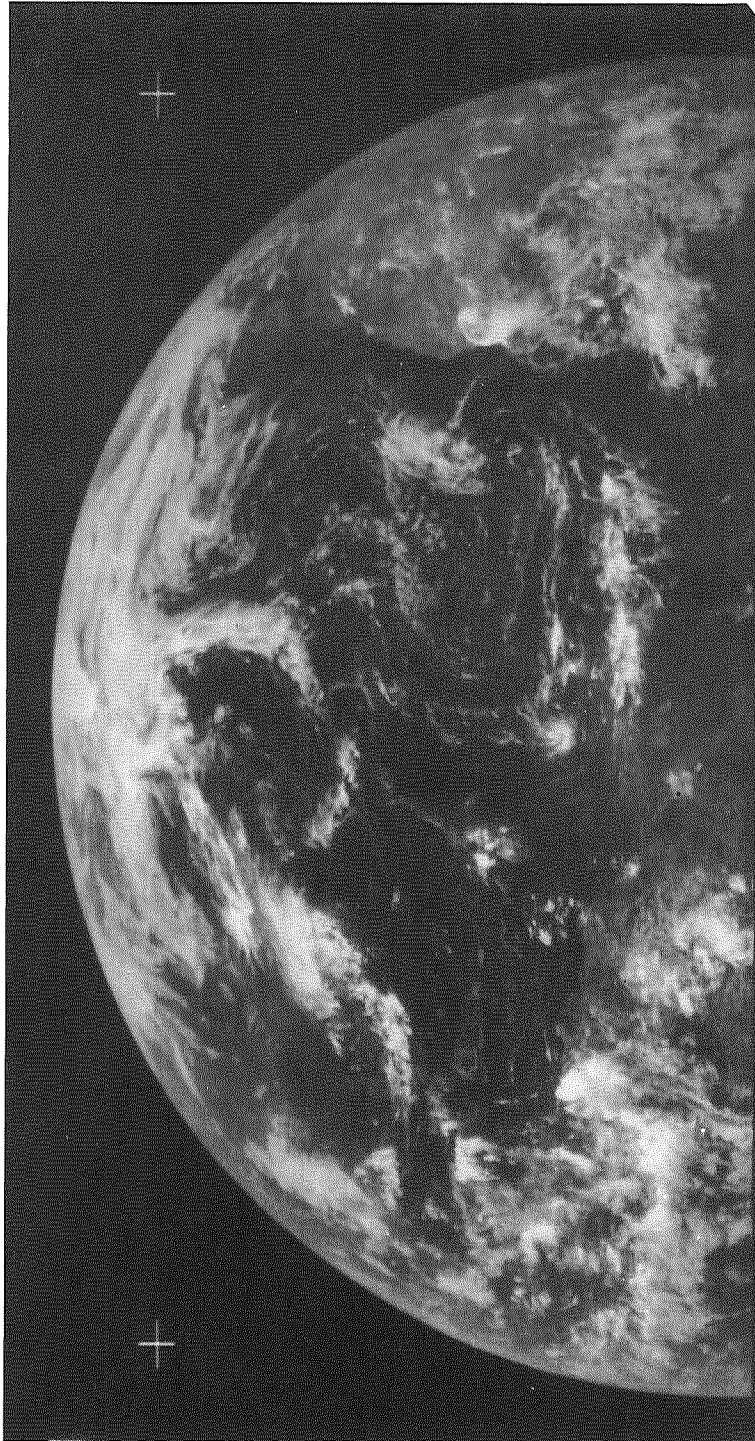
ATS-III MSSCC 25 AUG 69 15 31 06 Z 5

MSSCC

26 Aug 69

SSP 47.75W 0.02N

Seq	End Time	Remarks
1	10 00 46	
2	13 23 52	Half Scan Tropical Storm Eve
3	13 36 40	Half Scan Tropical Storm Eve
4	13 49 28	Half Scan Tropical Storm Eve
5	14 02 10	Half Scan Tropical Storm Eve
6	14 15 14	Half Scan Tropical Storm Eve
7	14 28 02	Half Scan Tropical Storm Eve
8	14 40 48	Half Scan Tropical Storm Eve
9	14 53 36	Half Scan Tropical Storm Eve
10	15 06 27	Half Scan Tropical Storm Eve
11	15 19 33	Half Scan Tropical Storm Eve
12	15 32 24	Half Scan Tropical Storm Eve
13	15 45 14	Half Scan Tropical Storm Eve
14	16 10 58	Half Scan Tropical Storm Eve
15	16 23 47	Half Scan Tropical Storm Eve
16	16 36 50	Half Scan Tropical Storm Eve
17	16 49 44	Half Scan Tropical Storm Eve
18	17 02 33	Half Scan Tropical Storm Eve
19	17 15 22	Half Scan Tropical Storm Eve
20	17 31 25	Half Scan Tropical Storm Eve
21	17 44 13	Half Scan Tropical Storm Eve
22	17 57 03	Half Scan Tropical Storm Eve



ATS-III MSSCC 26 AUG 69 15 19 33 Z 11

MSSCC

27 Aug 69

SSP 47.74W 0.02N

Seq

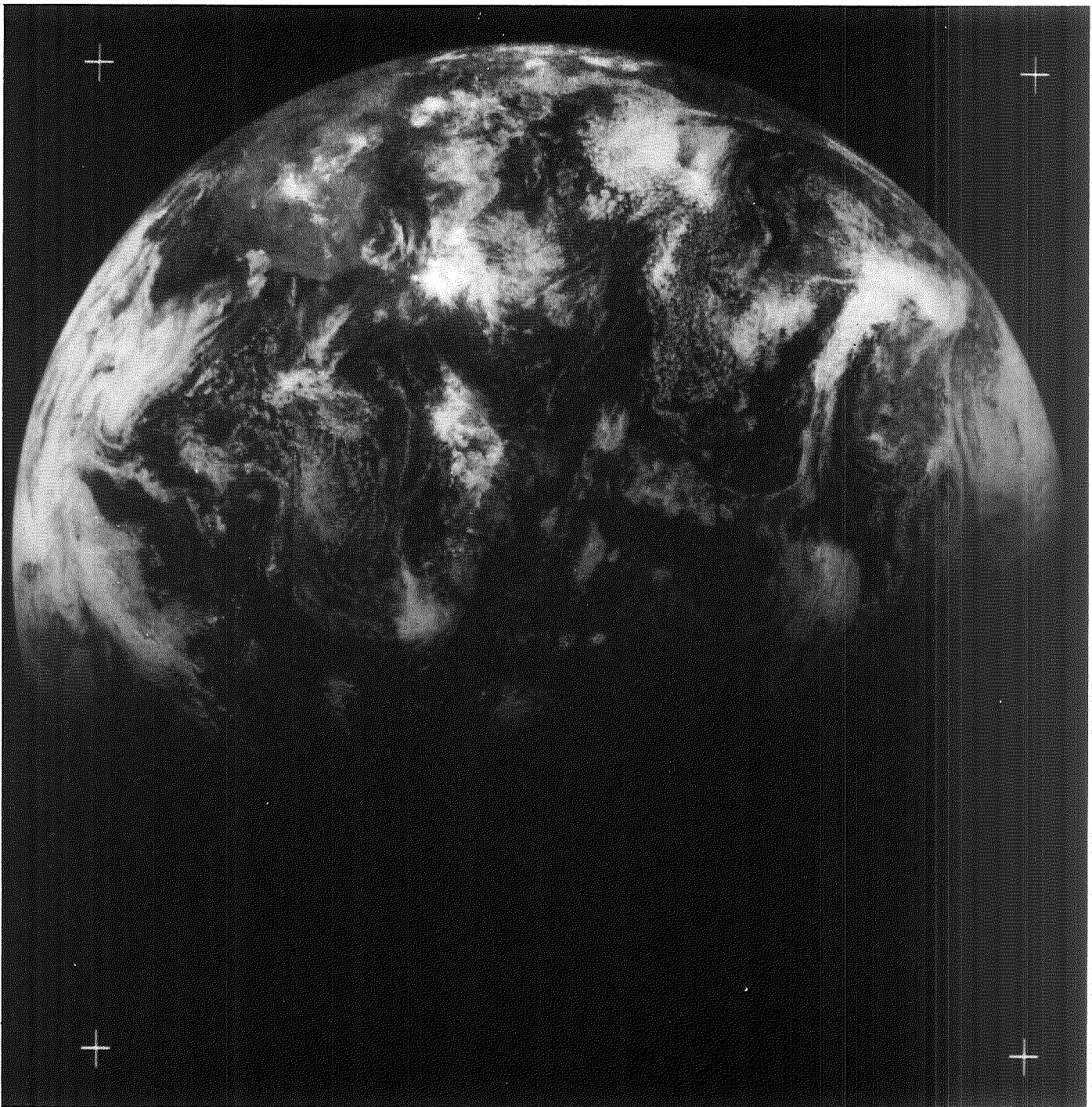
End Time

Remarks

1

10 47 26

Noise Picture Fair



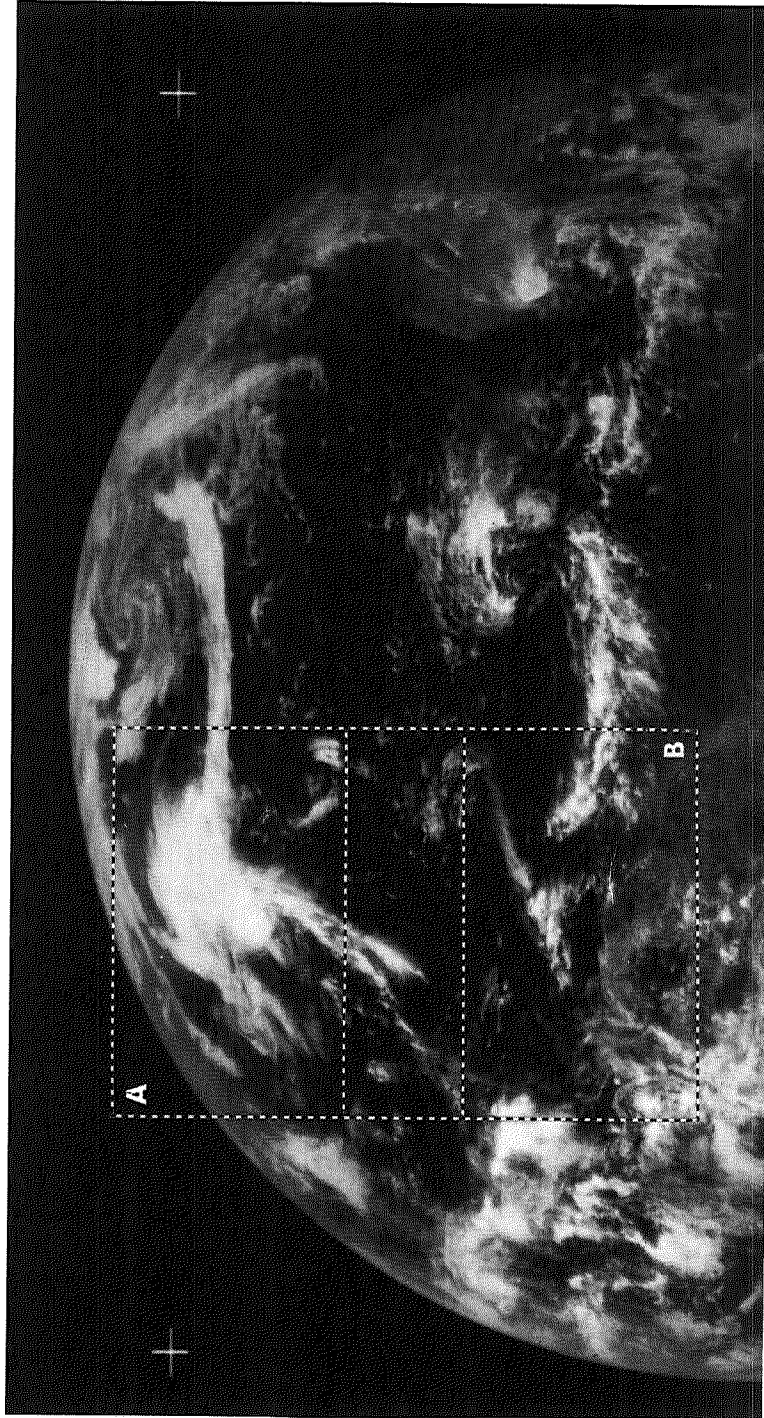
ATS-III MSSCC 27 AUG 69 10 47 26 Z 1

MSSCC

9 Sep 69

SSP 47.70W 0.07N

Seq	End Time	Remarks
1	15 31 46	Half Scan Noise Tropical Storm Gerda
2	16 03 34	Half Scan Noise Tropical Storm Gerda
3	16 27 59	Half Scan Phasing Error Tropical Storm Gerda
4	16 50 23	Half Scan Phasing Error Tropical Storm Gerda
5	17 12 59	Half Scan Phasing Error Tropical Storm Gerda
6	17 40 28	Half Scan Phasing Error Tropical Storm Gerda
7	18 03 36	Half Scan Phasing Error Tropical Storm Gerda
8	18 26 57	Half Scan Phasing Error Tropical Storm Gerda
9	18 53 35	Half Scan Phasing Error Tropical Storm Gerda
10	19 18 07	Half Scan Phasing Error Tropical Storm Gerda
11	19 41 27	Half Scan Phasing Error Tropical Storm Gerda



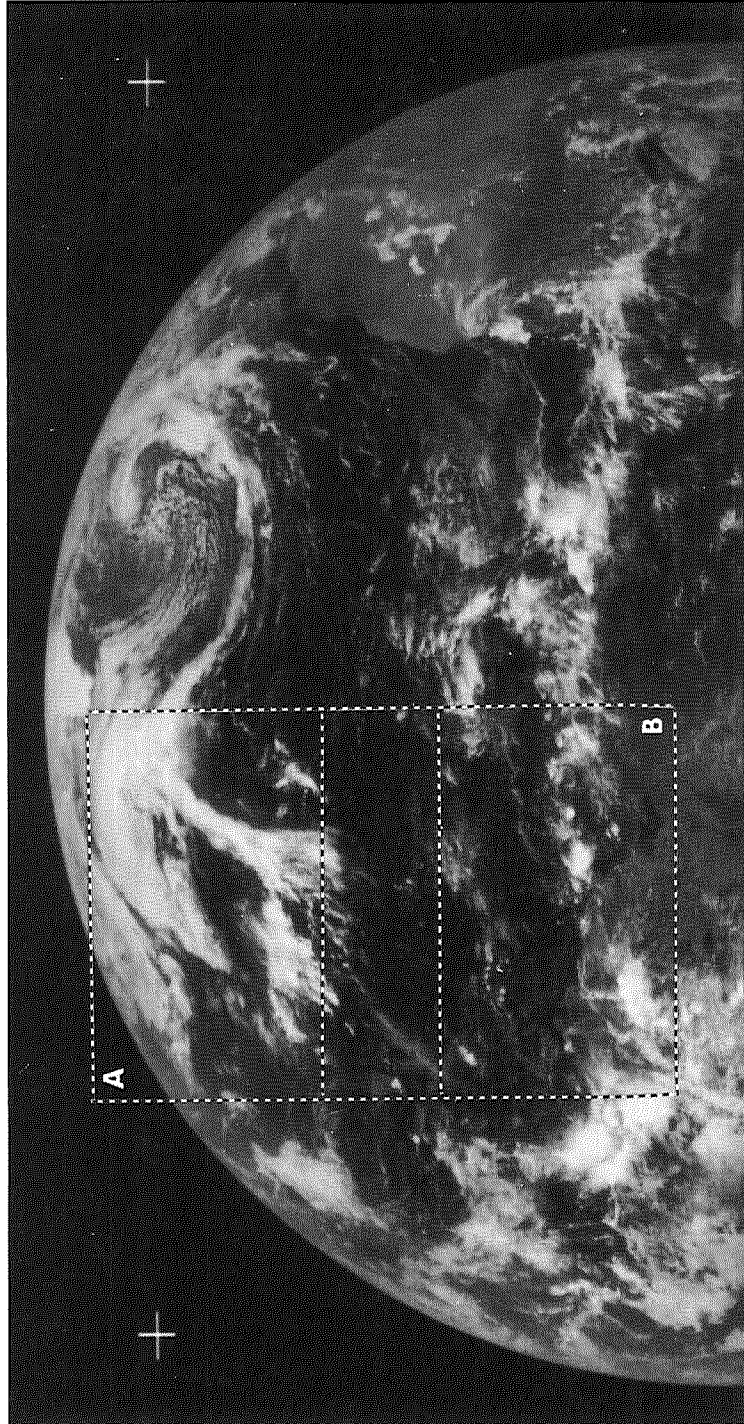
ATS-III MSSCC 9 SEP 69 16 03 34 Z 2

MSSCC

10 Sep 69

SSP 47.71W 0.07N

Seq	End Time	Remarks
1	13 31 45	Half Scan Noise Slight Phasing Error
2	13 55 17	Half Scan Noise Slight Phasing Error
3	14 19 10	Half Scan Noise Slight Phasing Error
4	14 34 53	Half Scan Noise Slight Phasing Error
5	14 47 51	Half Scan Noise Slight Phasing Error
6	15 00 54	Half Scan Noise Slight Phasing Error
7	15 13 51	Half Scan
8	15 33 02	Half Scan Slight Phasing Error
9	15 49 21	Half Scan Slight Phasing Error
10	16 47 44	Half Scan Slight Phasing Error
11	17 09 51	Half Scan Slight Phasing Error
12	17 34 25	Half Scan Slight Phasing Error
13	18 00 30	Half Scan Slight Phasing Error
14	18 29 14	Half Scan Slight Phasing Error
15	18 52 08	Half Scan Slight Phasing Error
16	19 16 30	Half Scan Slight Phasing Error



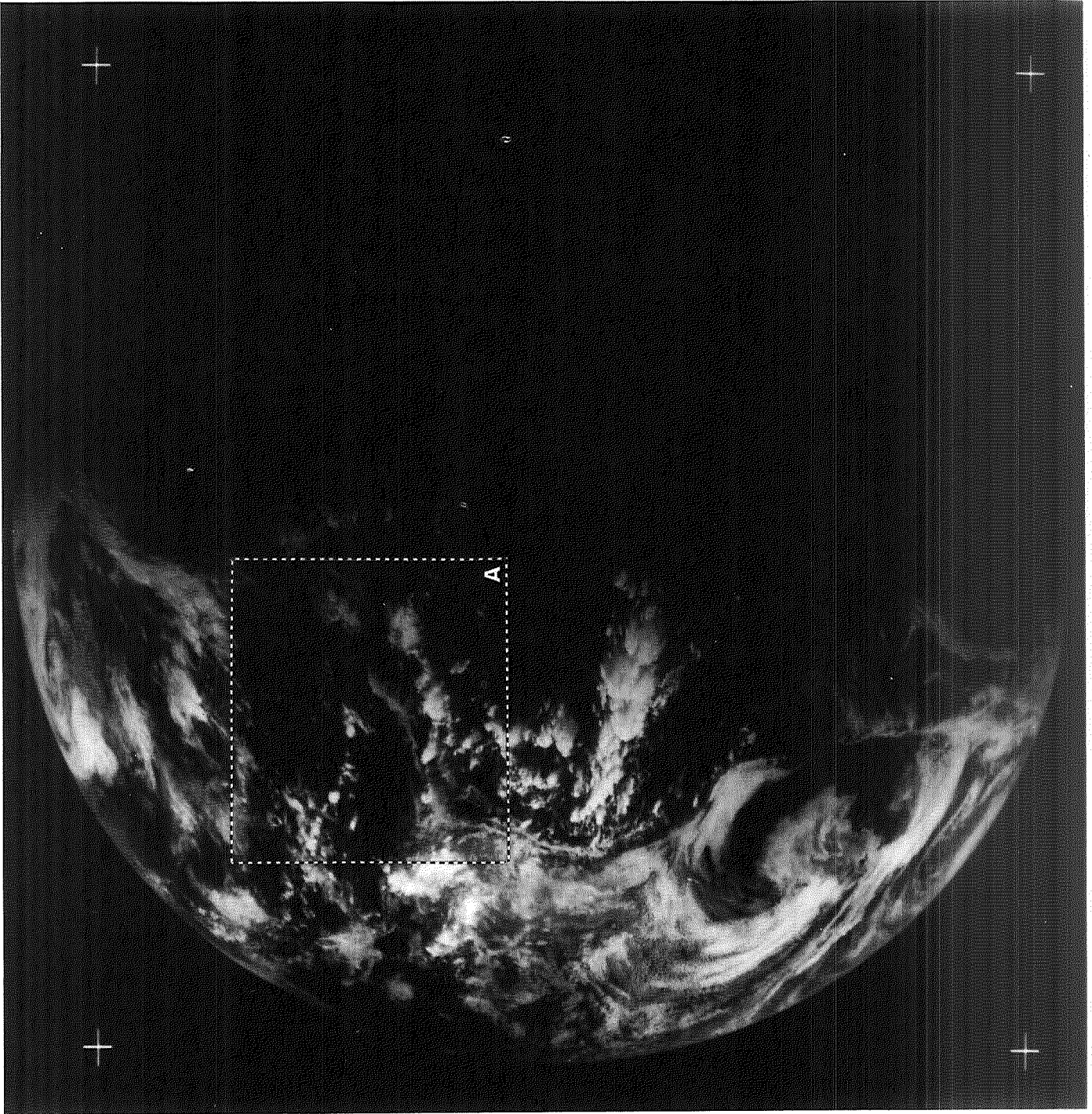
ATS-III MSSCC 10 SEP 69 15 13 51 Z 7

MSSCC

11 Sep 69

SSP 47.71W 0.07N

Seq	End Time	Remarks
1	19 52 35	Noise Eclipse
2	20 18 15	Eclipse



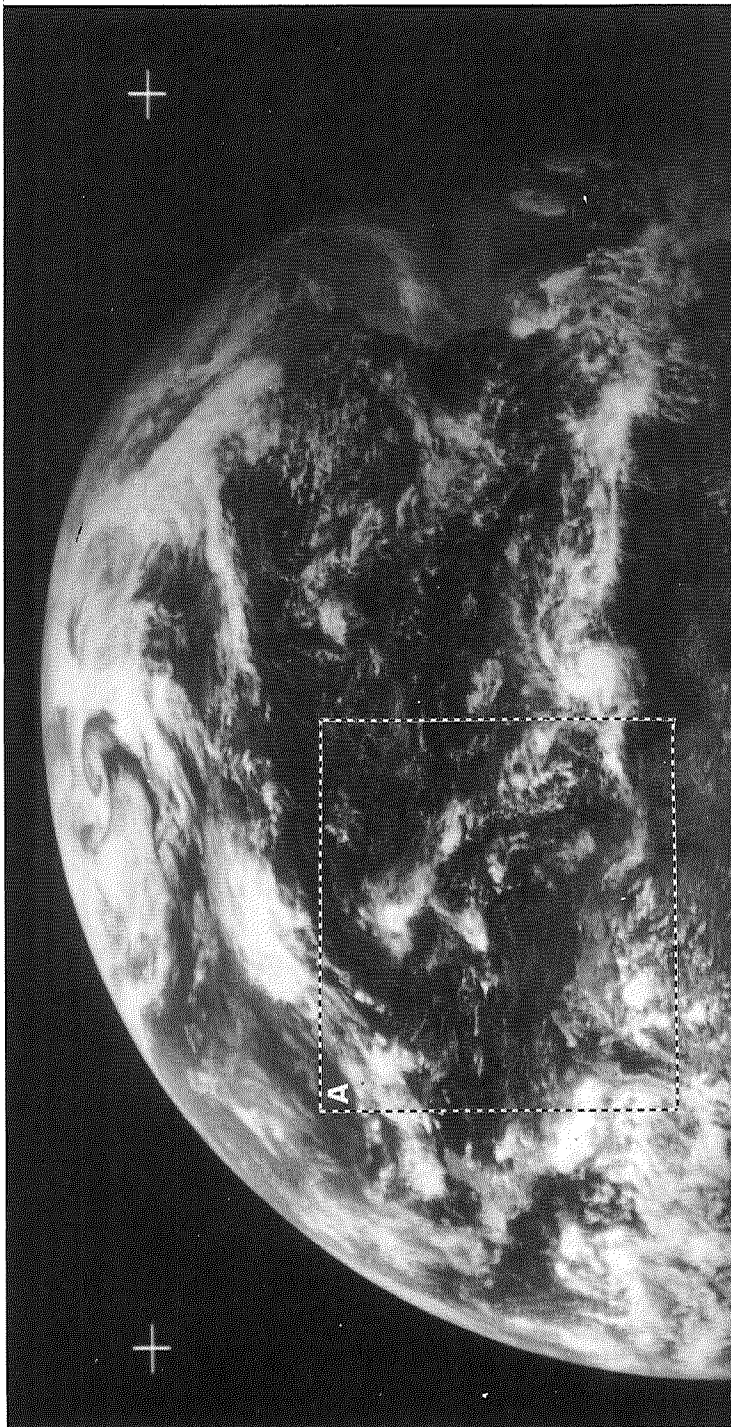
ATS-III MSSCC 11 SEP 69 20 18 15 Z 2

MSSCC

13 Sep 69

SSP 47.74W 0.08N

Seq	End Time	Remarks
1	17 22 51	Half Scan
2	17 35 39	Half Scan
3	17 48 27	Half Scan
4	18 01 16	Half Scan
5	18 14 02	Half Scan Slight Phasing Error
6	18 27 10	Half Scan Slight Phasing Error
7	18 39 55	Half Scan Slight Phasing Error
8	18 52 47	Half Scan Slight Phasing Error
9	19 05 38	Half Scan Slight Phasing Error
10	19 18 23	Half Scan Slight Phasing Error
11	19 31 15	Half Scan Slight Phasing Error
12	19 44 03	Half Scan Slight Phasing Error
13	19 56 54	Half Scan Slight Phasing Error
14	20 09 43	Half Scan Slight Phasing Error
15	20 22 34	Half Scan Slight Phasing Error
16	20 35 22	Half Scan Slight Phasing Error
17	20 48 10	Half Scan Slight Phasing Error
18	21 00 59	Half Scan Slight Phasing Error



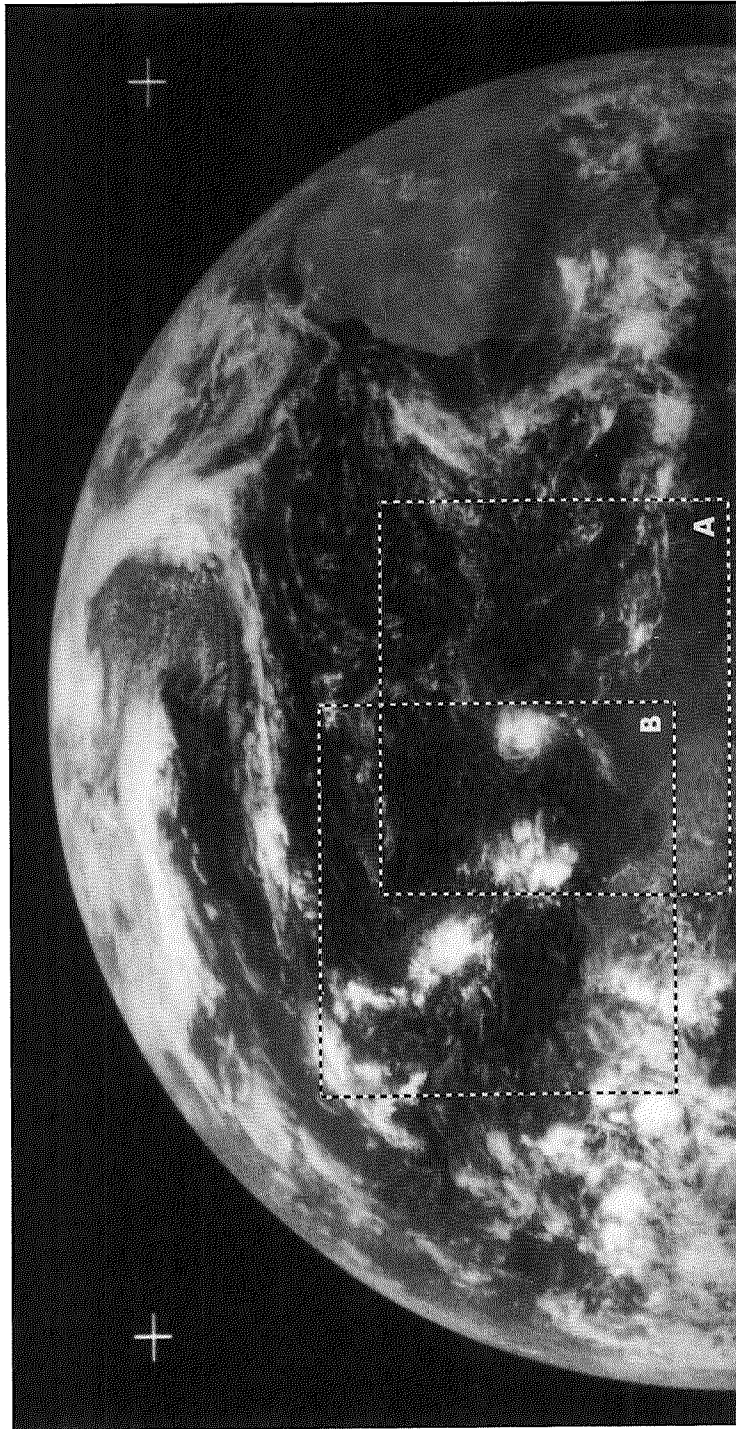
ATS-III MSSCC 13 SEP 69 17 22 51 Z 1

MSSCC

15 Sep 69

SSP 47.76W 0.08N

Seq	End Time	Remarks
1	12 48 52	Half Scan Tropical Storm Holly
2	13 02 01	Half Scan Tropical Storm Holly
3	13 14 52	Half Scan Tropical Storm Holly
4	13 28 16	Half Scan Tropical Storm Holly
5	13 41 08	Half Scan Tropical Storm Holly
6	13 57 06	Half Scan Tropical Storm Holly
7	14 10 35	Half Scan Tropical Storm Holly
8	14 23 24	Half Scan Tropical Storm Holly
9	14 36 09	Half Scan Tropical Storm Holly
10	14 48 58	Half Scan Tropical Storm Holly
11	15 06 13	Half Scan Tropical Storm Holly
12	15 19 01	Half Scan Tropical Storm Holly
13	15 31 46	Half Scan Tropical Storm Holly
14	15 44 32	Half Scan Tropical Storm Holly
15	16 46 14	Half Scan Tropical Storm Holly
16	16 59 05	Half Scan Tropical Storm Holly
17	17 11 51	Half Scan Tropical Storm Holly
18	17 25 59	Half Scan Tropical Storm Holly
19	17 38 45	Half Scan Tropical Storm Holly
20	17 52 06	Half Scan Tropical Storm Holly
21	18 07 43	Half Scan Tropical Storm Holly
22	18 20 31	Half Scan Tropical Storm Holly
23	18 33 20	Half Scan Tropical Storm Holly
24	18 46 07	Half Scan Tropical Storm Holly
25	18 58 56	Half Scan Tropical Storm Holly
26	19 11 47	Half Scan Tropical Storm Holly
27	19 24 33	Half Scan Tropical Storm Holly
28	19 37 21	Half Scan Tropical Storm Holly
29	19 50 09	Half Scan Tropical Storm Holly
30	20 02 58	Half Scan Tropical Storm Holly
31	20 15 46	Half Scan Tropical Storm Holly
32	20 28 34	Half Scan Tropical Storm Holly
33	20 41 24	Half Scan
34	20 54 18	Half Scan



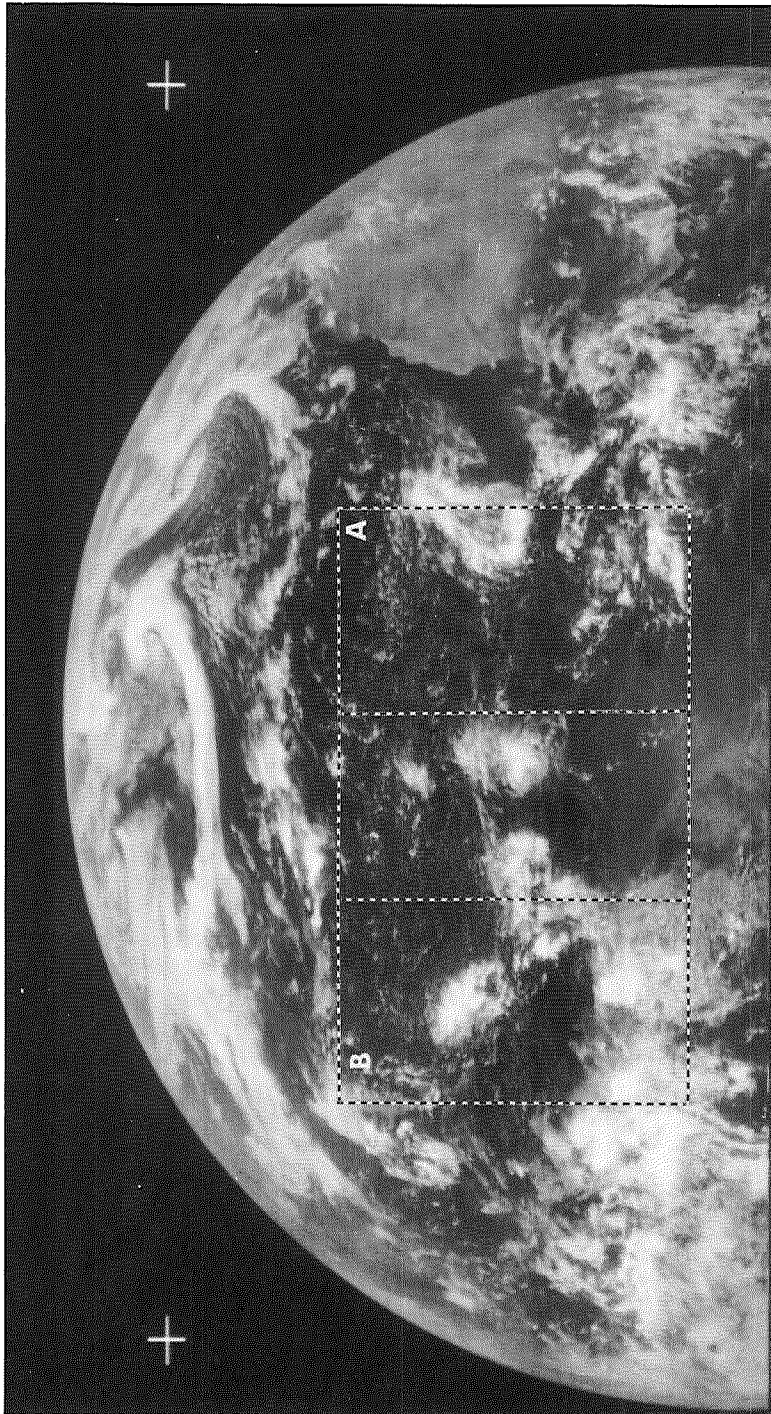
ATS-III MSSCC 15 SEP 69 15 06 13 Z 11

MSSCC

16 Sep 69

SSP 47.78W 0.09N

Seq	End Time	Remarks
1	09 36 42	Half Scan
2	09 49 51	Half Scan
3	10 02 43	Half Scan Hurricane Holly Noise Picture Good
4	10 16 06	Half Scan Hurricane Holly Noise Picture Good
5	10 28 55	Half Scan Hurricane Holly Noise Picture Good
6	10 41 52	Half Scan Hurricane Holly Noise Picture Good
7	10 54 58	Half Scan Hurricane Holly Noise Picture Good
8	11 07 58	Half Scan Hurricane Holly Noise Picture Good
9	11 20 50	Half Scan Hurricane Holly Noise Picture Good
10	11 33 37	Half Scan Hurricane Holly Noise Picture Good
11	11 46 29	Half Scan Hurricane Holly Noise Picture Good
12	11 59 29	Half Scan Hurricane Holly Noise Picture Good
13	12 12 14	Half Scan Hurricane Holly Noise Picture Good
14	12 25 00	Half Scan Hurricane Holly Noise Dropout
15	12 37 45	Half Scan Hurricane Holly Noise Picture Good
16	12 50 34	Half Scan Hurricane Holly Noise Picture Good
17	13 03 25	Half Scan Hurricane Holly Noise Picture Good
18	13 16 10	Half Scan Hurricane Holly Noise Picture Good
19	13 28 55	Half Scan Hurricane Holly Noise Picture Good
20	13 41 35	Half Scan Hurricane Holly Noise Picture Good
21	13 54 20	Half Scan Hurricane Holly Noise Picture Good
22	14 07 23	Half Scan Hurricane Holly Noise Picture Good
23	14 20 12	Half Scan Hurricane Holly Noise Picture Good
24	14 32 57	Half Scan Hurricane Holly Noise Picture Good
25	14 45 51	Half Scan Hurricane Holly Noise Picture Good
26	14 59 00	Half Scan Hurricane Holly Noise Picture Good
27	15 12 12	Half Scan Hurricane Holly Noise Picture Good
28	15 25 04	Half Scan Hurricane Holly Noise Picture Good
29	15 37 49	Half Scan Hurricane Holly Noise Picture Good
30	17 10 32	Half Scan Hurricane Holly Noise Picture Good
31	17 25 03	Half Scan Hurricane Holly Noise Picture Good
32	17 37 52	Half Scan Hurricane Holly Noise Picture Good
33	17 50 49	Half Scan Hurricane Holly Noise Picture Good
34	18 03 53	Half Scan Hurricane Holly Noise Picture Good
35	18 16 49	Half Scan Hurricane Holly Noise Picture Good
36	18 29 35	Half Scan Hurricane Holly Noise Picture Good
37	18 42 41	Half Scan Hurricane Holly Noise Picture Good
38	18 55 42	Half Scan Hurricane Holly Noise Picture Good
39	19 08 53	Half Scan Hurricane Holly Noise Picture Good
40	19 21 41	Half Scan Hurricane Holly Noise Picture Good
41	19 37 26	Half Scan Hurricane Holly Noise Picture Fair
42	19 50 29	Half Scan Hurricane Holly Noise Picture Fair
43	20 03 58	Half Scan Hurricane Holly Noise Picture Fair
44	20 16 49	Half Scan Hurricane Holly Noise Picture Fair
45	20 29 37	Half Scan Hurricane Holly Noise Picture Fair
46	20 42 26	Half Scan Phasing Error Noise Picture Fair
47	20 55 11	Half Scan Phasing Error Noise Picture Fair



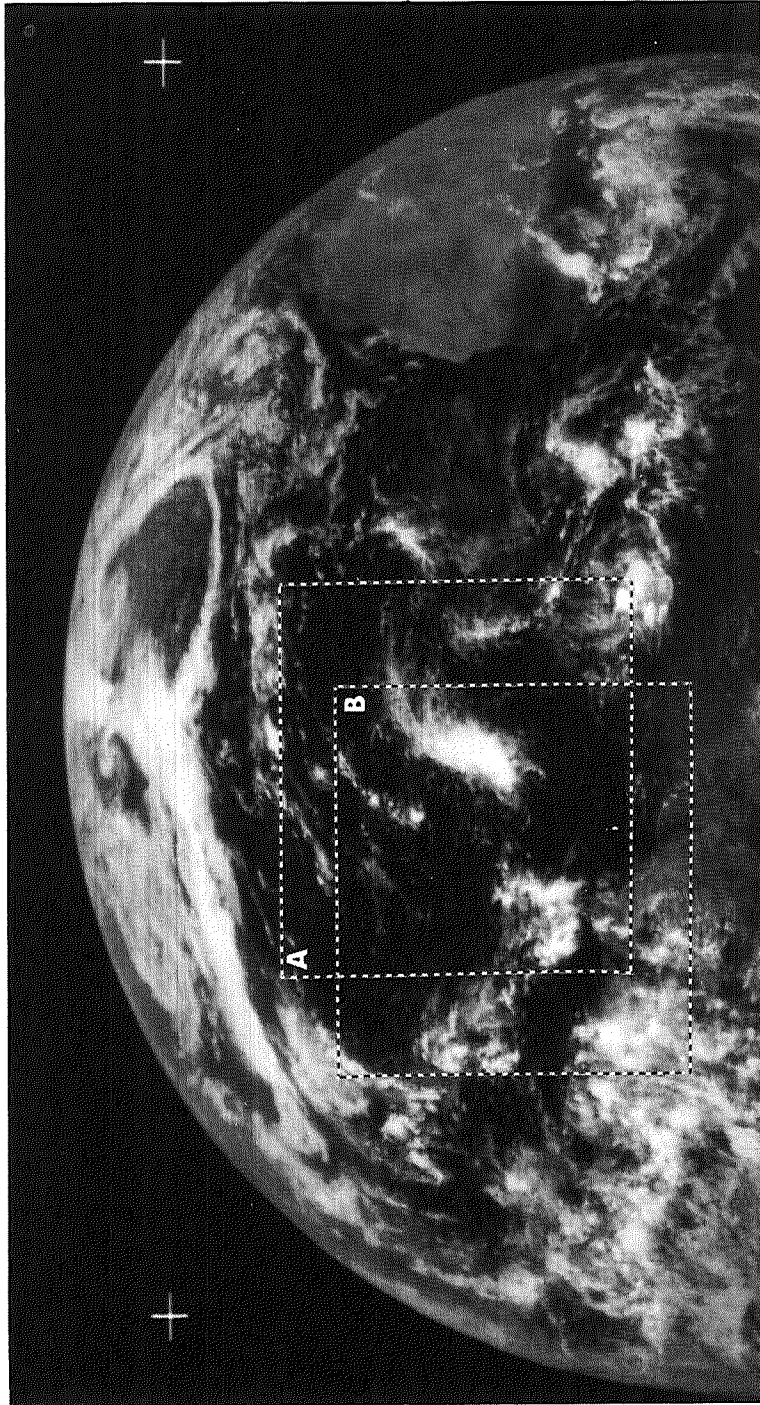
ATS-III MSSCC 16 SEP 69 14 59 00 Z 26

MSSCC

17 Sep 69

SSP 47.79W 0.09N

Seq	End Time	Remarks
1	09 28 42	Half Scan
2	09 41 45	Half Scan
3	09 54 49	Half Scan Hurricane Holly
4	10 08 12	Half Scan Hurricane Holly
5	10 21 04	Half Scan Hurricane Holly
6	10 33 46	Half Scan Hurricane Holly
7	10 47 03	Half Scan Hurricane Holly
8	11 01 18	Half Scan Hurricane Holly
9	11 14 04	Half Scan Hurricane Holly Electronic Interference
10	11 27 04	Half Scan Hurricane Holly Electronic Interference
11	11 40 10	Half Scan Hurricane Holly
12	11 53 29	Half Scan Hurricane Holly
13	12 08 06	Half Scan Hurricane Holly Dropouts
14	12 21 56	Half Scan Hurricane Holly
15	12 34 48	Half Scan Hurricane Holly
16	12 47 57	Half Scan Hurricane Holly
17	13 01 03	Half Scan Hurricane Holly
18	13 14 09	Half Scan Hurricane Holly
19	13 26 58	Half Scan Hurricane Holly
20	13 39 43	Half Scan Hurricane Holly
21	13 52 58	Half Scan Hurricane Holly Phasing Error
22	14 05 46	Half Scan Hurricane Holly Phasing Error
23	14 18 31	Half Scan Hurricane Holly Phasing Error
24	14 31 25	Half Scan Hurricane Holly Phasing Error
25	14 44 43	Half Scan Hurricane Holly Phasing Error
26	14 57 47	Half Scan Hurricane Holly Phasing Error
27	15 10 35	Half Scan Hurricane Holly Phasing Error
28	15 23 32	Half Scan Hurricane Holly Phasing Error
29	16 53 19	Half Scan Hurricane Holly Phasing Error
30	17 06 08	Half Scan Hurricane Holly Phasing Error
31	17 18 56	Half Scan Hurricane Holly Phasing Error
32	17 31 44	Half Scan Hurricane Holly Phasing Error
33	17 44 31	Half Scan Hurricane Holly Phasing Error
34	17 57 30	Half Scan Hurricane Holly Phasing Error
35	18 10 16	Half Scan Hurricane Holly Phasing Error
36	18 23 15	Half Scan Hurricane Holly Phasing Error
37	18 36 01	Half Scan Hurricane Holly Phasing Error
38	18 48 50	Half Scan Hurricane Holly
39	19 02 13	Half Scan Hurricane Holly Phasing Error
40	19 15 04	Half Scan Hurricane Holly Phasing Error
41	19 27 51	Half Scan Hurricane Holly Phasing Error
42	19 40 47	Half Scan Hurricane Holly Phasing Error
43	19 53 35	Half Scan Hurricane Holly Phasing Error
44	20 06 23	Half Scan Hurricane Holly Phasing Error
45	20 19 12	Half Scan Hurricane Holly Phasing Error
46	20 31 59	Half Scan Hurricane Holly Phasing Error
47	20 44 51	Half Scan Phasing Error
48	20 57 43	Half Scan 100 Line Dropout



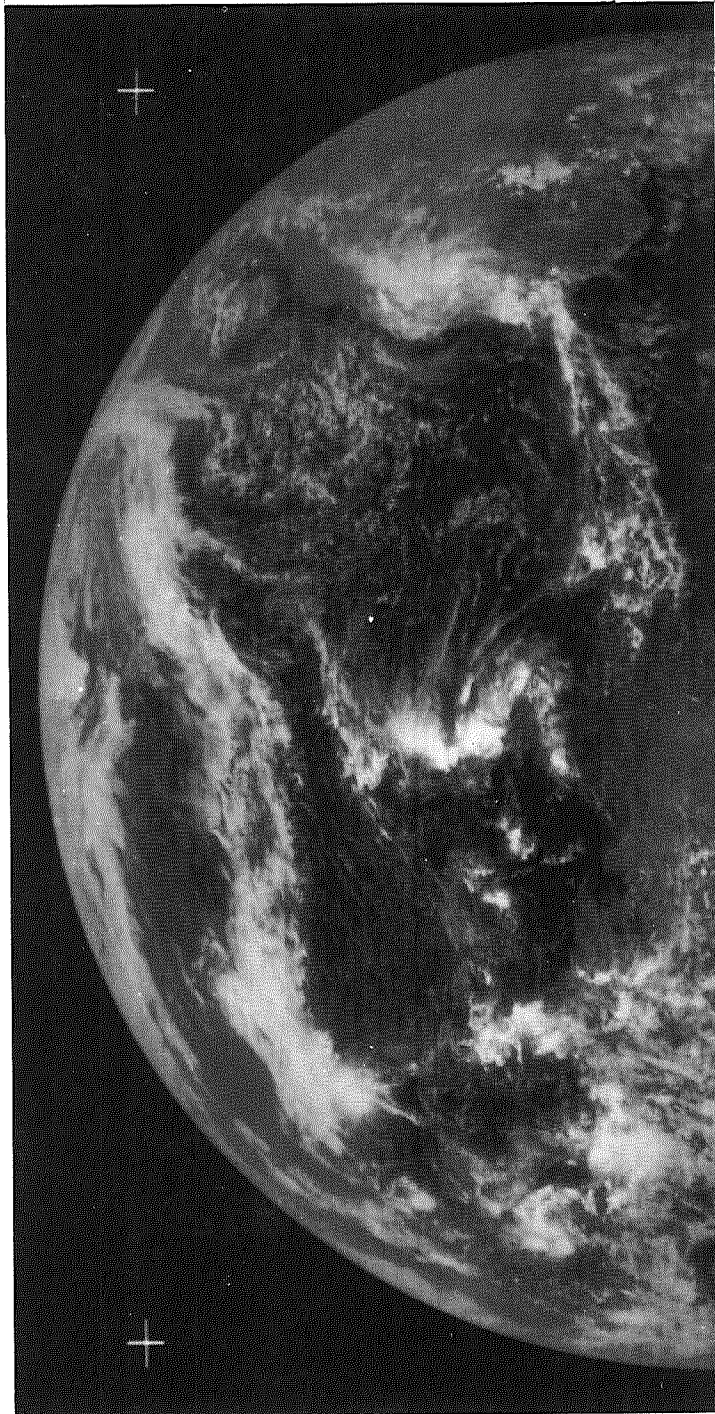
ATS-III MSSCC 17 SEP 69 14 57 47 Z 26

MSSCC

20 Sep 69

SSP 47.84W 0.11N

Seq	End Time	Remarks
1	11 58 08	Half Scan Interference
2	13 21 50	Half Scan Interference
3	15 19 48	Half Scan Interference
4	17 02 29	Half Scan
5	19 10 48	Half Scan



ATS-III MSSCC 20 SEP 69 15 19 48 Z 3

MSSCC

21 Sep 69

SSP 47.28W 0.13N

Seq	End Time	Remarks
1	11 18 49	Half Scan Light Streaks Tropical Storm Inga
2	13 13 14	Half Scan Tropical Storm Inga
3	15 12 41	Half Scan Tropical Storm Inga
4	17 11 39	Half Scan Tropical Storm Inga
5	20 15 31	Half Scan Tropical Storm Inga



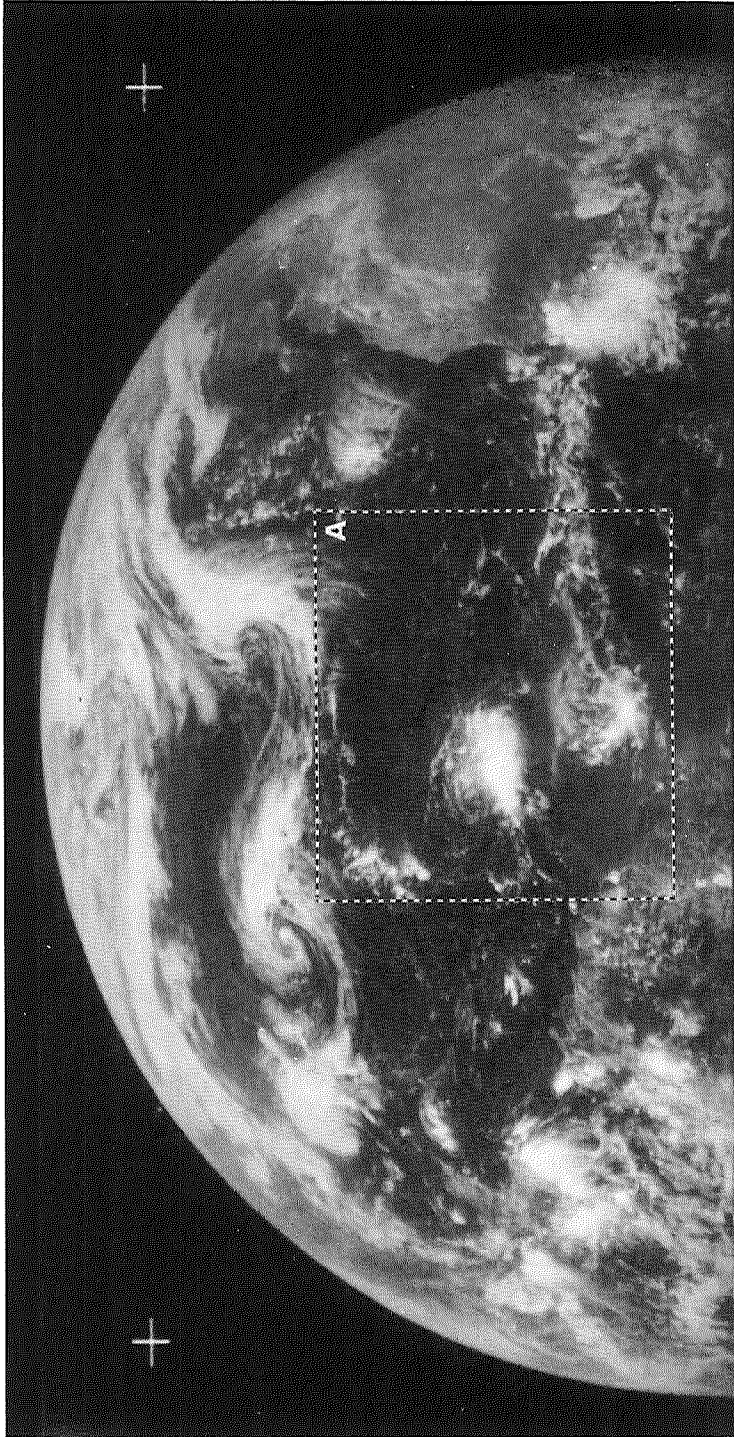
ATS-III MSSCC 21 SEP 69 15 12 41 Z 3

MSSCC

22 Sep 69

SSP 47.32W 0.13N

Seq	End Time	Remarks
1	15 42 20	Half Scan Tropical Storm Inga
2	15 55 12	Half Scan Tropical Storm Inga
3	16 08 07	Half Scan Tropical Storm Inga
4	16 22 29	Half Scan Tropical Storm Inga
5	16 35 35	Half Scan Tropical Storm Inga
6	16 48 38	Half Scan Tropical Storm Inga
7	17 01 27	Half Scan Tropical Storm Inga



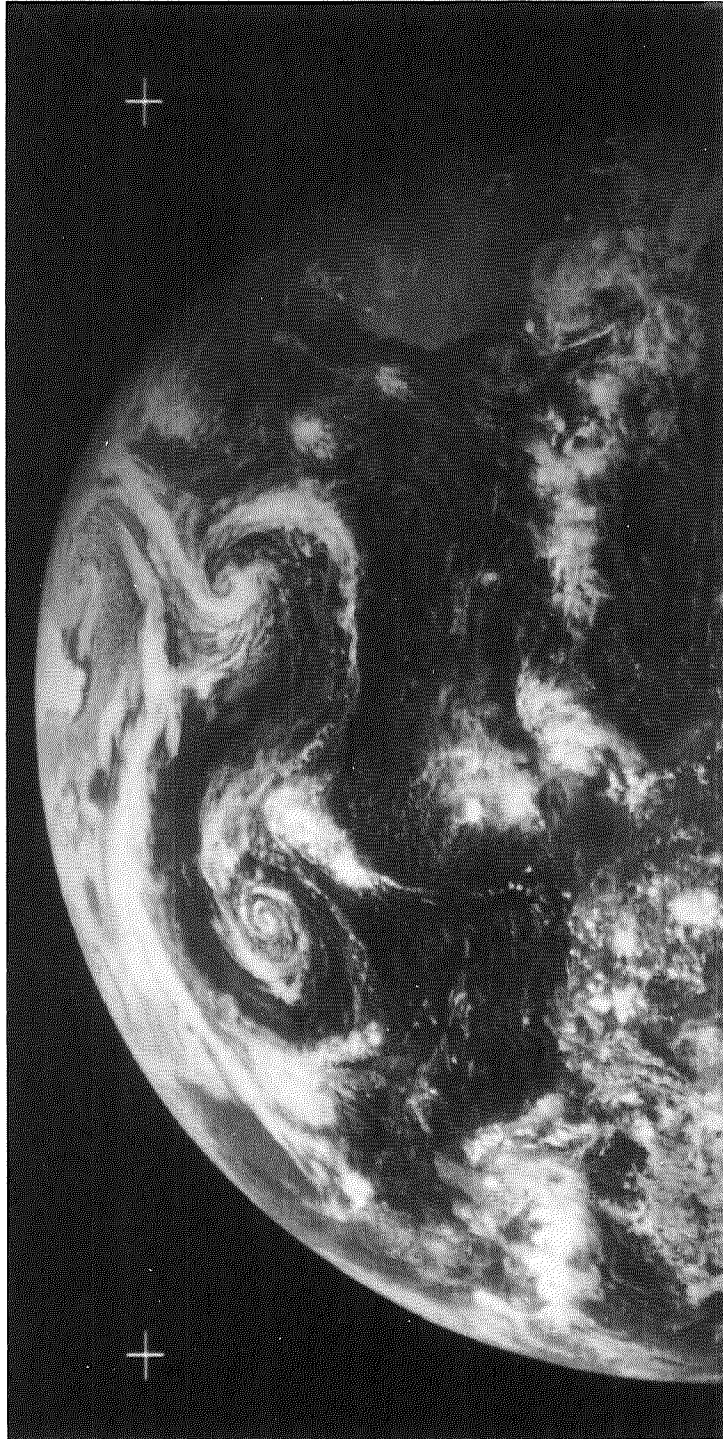
ATS-III MSSCC 22 SEP 69 15 42 20 Z 1

MSSCC

23 Sep 69

SSP 47.37W 0.14N

Seq	End Time	Remarks
1	17 05 13	Half Scan Tropical Storm Inga Noise
2	17 18 13	Half Scan Tropical Storm Inga



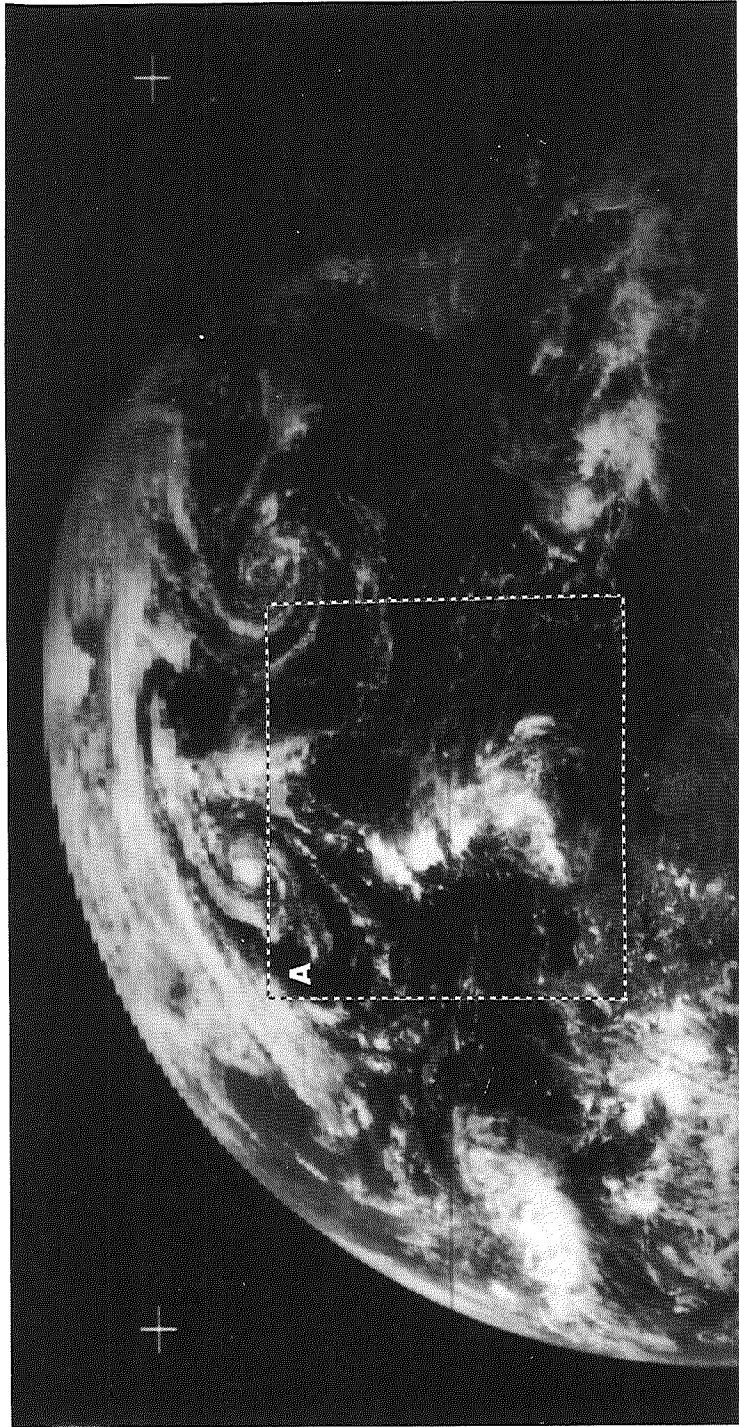
ATS-III MSSCC 23 SEP 69 17 05 13 Z 1

MSSCC

24 Sep 69

SSP 47.42W 0.14N

Seq	End Time	Remarks
1	16 57 54	Half Scan Tropical Depression Inga Phasing Error
2	17 10 47	Half Scan Tropical Depression Inga
3	20 35 17	Half Scan Tropical Depression Inga Phasing Error
4	20 48 02	Half Scan Tropical Depression Inga Phasing Error
5	21 00 51	Half Scan Tropical Depression Inga Phasing Error



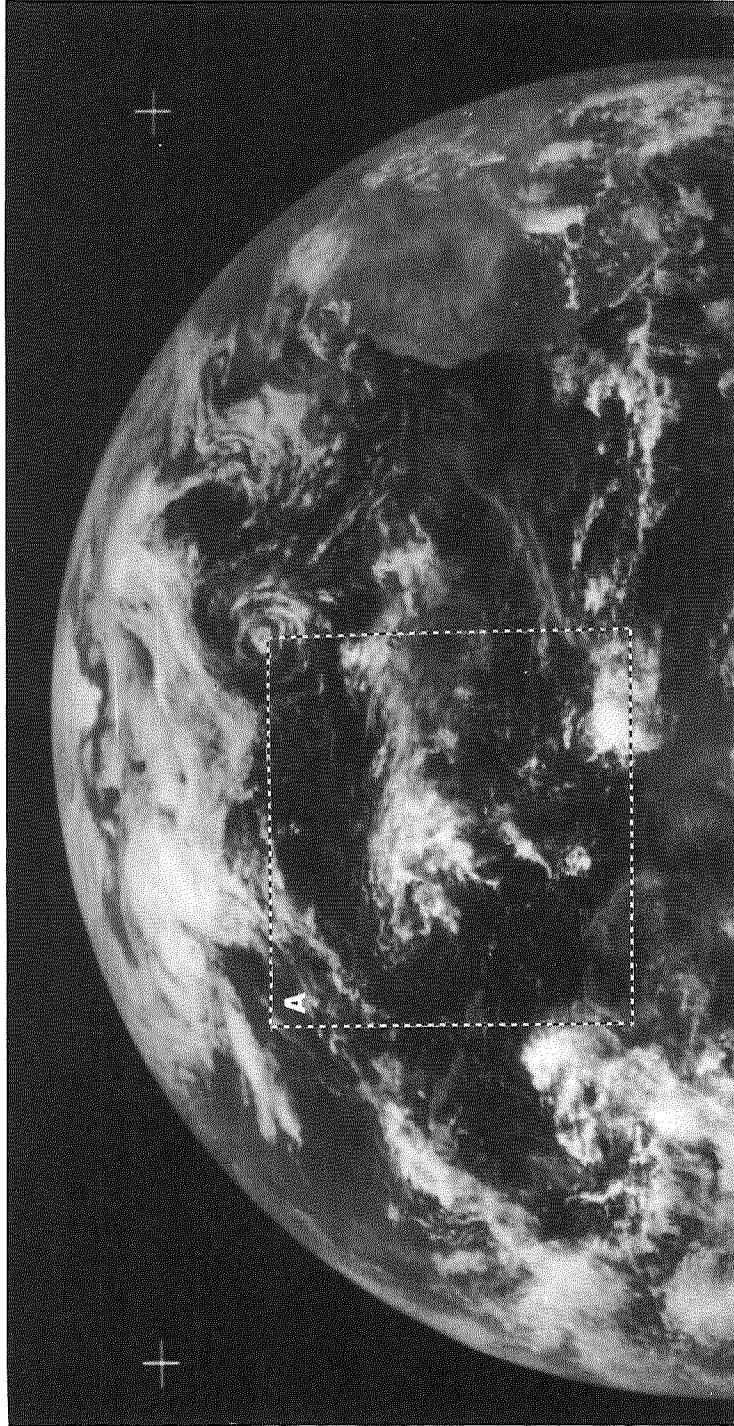
ATS-III MSSCC 24 SEP 69 16 57 54 Z 1

MSSCC

27 Sep 69

SSP 47.14W 0.15N

Seq	End Time	Remarks
1	10 20 37	Half Scan
2	10 33 26	Half Scan
3	10 46 17	Half Scan
4	10 59 02	Half Scan Tropical Depression Inga
5	11 11 56	Half Scan Tropical Depression Inga
6	11 24 47	Half Scan Tropical Depression Inga Dropouts
7	11 37 39	Half Scan Tropical Depression Inga
8	14 06 37	Half Scan Tropical Depression Inga
9	14 19 40	Half Scan Tropical Depression Inga
10	14 32 37	Half Scan Tropical Depression Inga
11	14 45 37	Half Scan Tropical Depression Inga
12	14 58 26	Half Scan Tropical Depression Inga
13	15 11 16	Half Scan Tropical Depression Inga
14	15 24 44	Half Scan Tropical Depression Inga



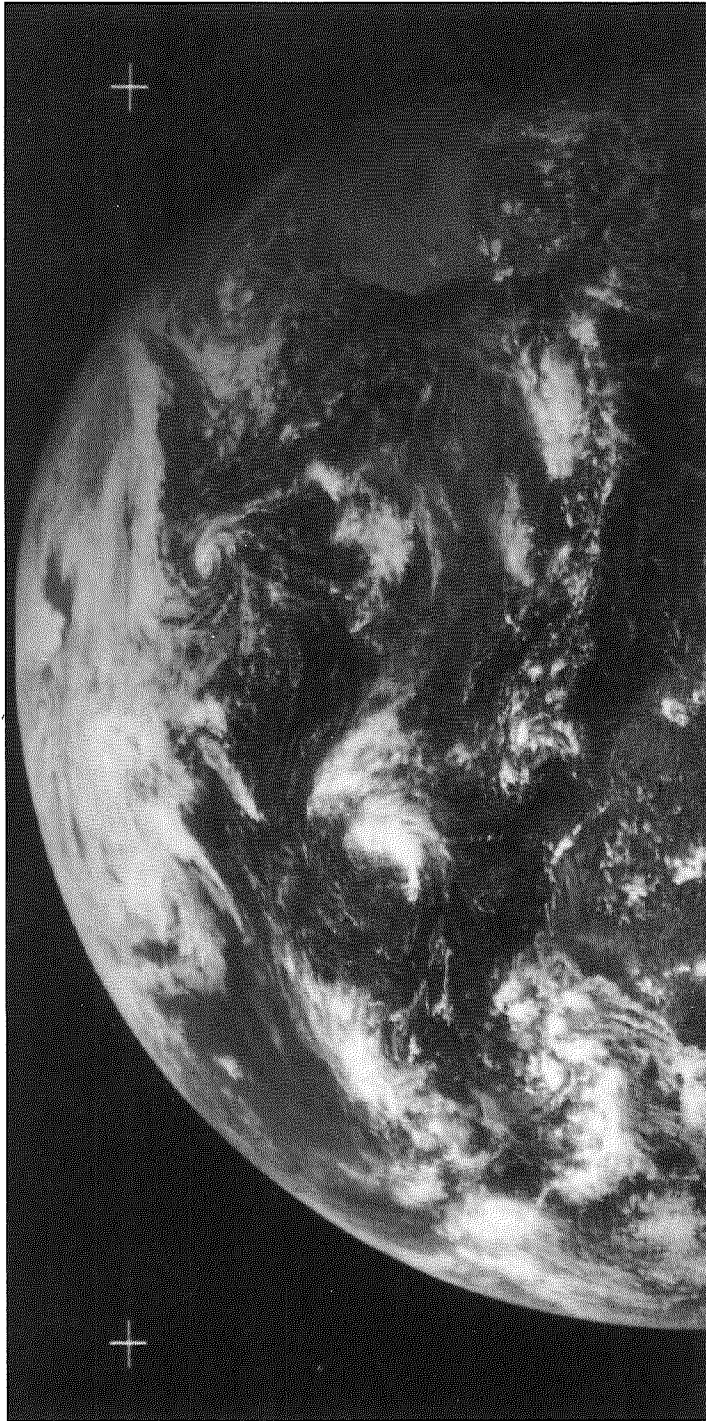
ATS-III MSSCC 27 SEP 69 14 58 26 Z 12

MSSCC

28 Sep 69

SSP 47.04W 0.16N

Seq	End Time	Remarks
1	16 45 44	Half Scan Tropical Storm Inga Dropout
2	16 59 20	Half Scan Tropical Storm Inga



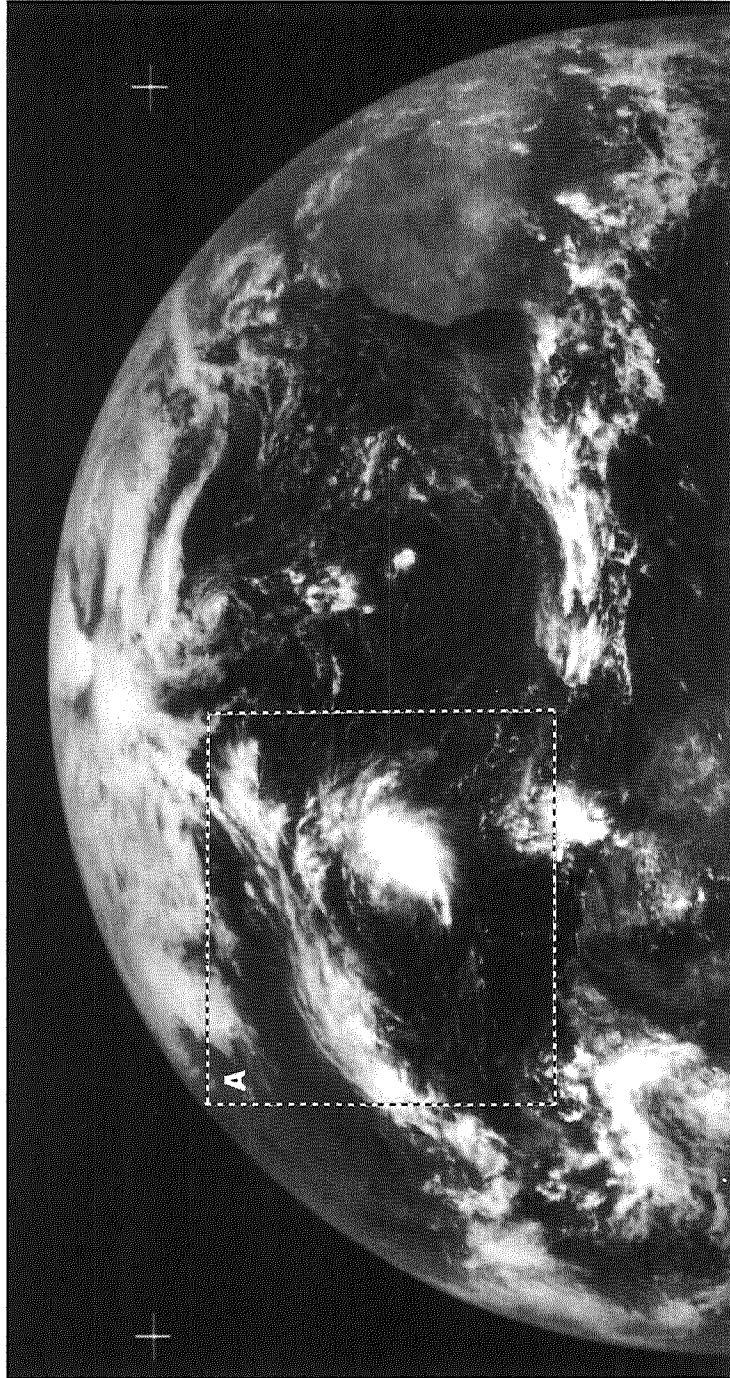
ATS-III MSSCC 28 SEP 69 16 59 20 Z 2

MSSCC

29 Sep 69

SSP 46.94W 0.17N

Seq	End Time	Remarks
1	15 12 23	Half Scan Tropical Storm Inga
2	15 25 20	Half Scan Tropical Storm Inga
3	15 38 13	Half Scan Tropical Storm Inga
4	15 51 15	Half Scan Tropical Storm Inga
5	16 04 16	Half Scan Tropical Storm Inga
6	16 18 05	Half Scan Tropical Storm Inga
7	16 31 37	Half Scan Tropical Storm Inga
8	16 44 26	Half Scan Tropical Storm Inga Dropouts
9	16 57 28	Half Scan Tropical Storm Inga
10	17 10 15	Half Scan Tropical Storm Inga
11	17 23 11	Half Scan Tropical Storm Inga
12	17 36 02	Half Scan Tropical Storm Inga
13	17 48 48	Half Scan Tropical Storm Inga
14	18 02 05	Half Scan Tropical Storm Inga
15	18 14 54	Half Scan Tropical Storm Inga
16	18 27 42	Half Scan Tropical Storm Inga
17	18 40 28	Half Scan Tropical Storm Inga
18	18 55 43	Half Scan Tropical Storm Inga
19	19 40 31	Half Scan Tropical Storm Inga
20	19 53 20	Half Scan Tropical Storm Inga
21	20 06 08	Half Scan Tropical Storm Inga
22	20 18 57	Half Scan Tropical Storm Inga Phasing Problem
23	20 31 45	Half Scan Tropical Storm Inga Phasing Problem



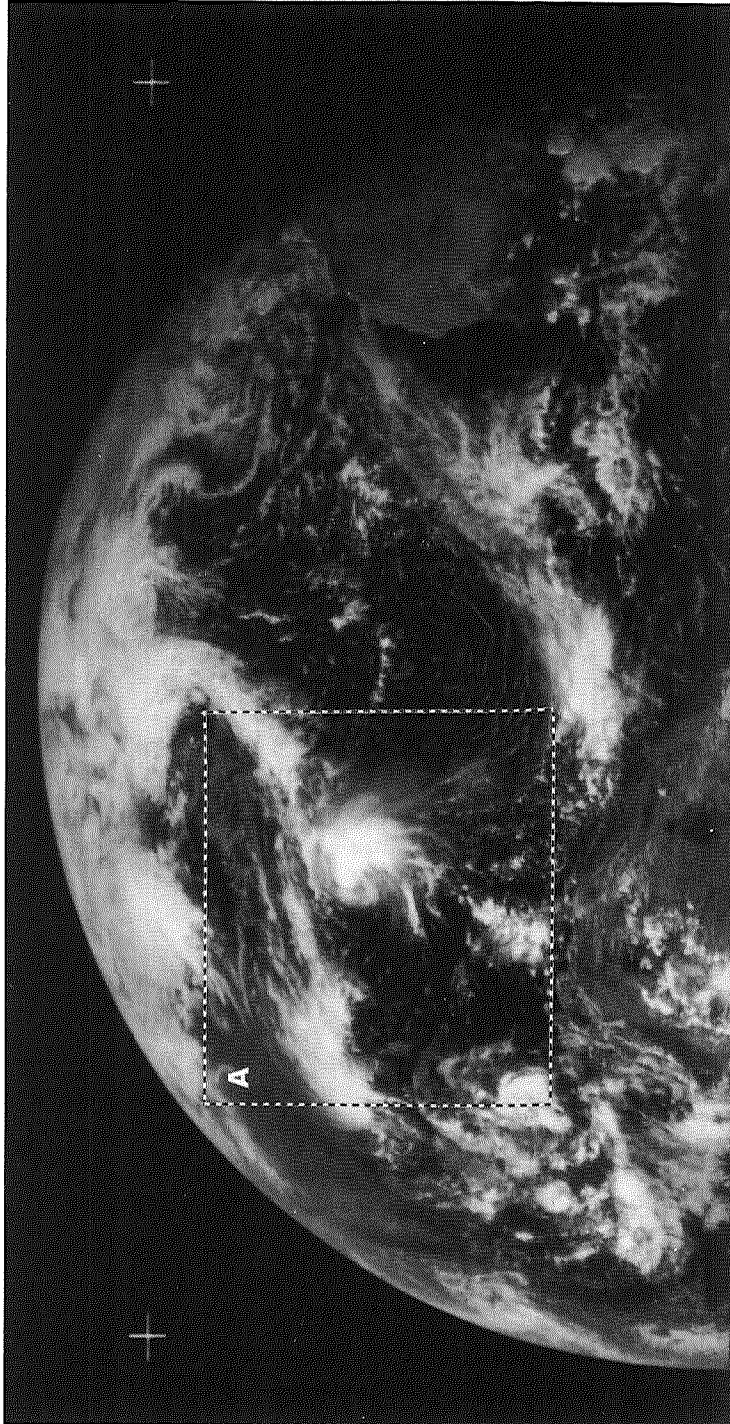
ATS-III MSSCC 29 SEP 69 15 12 23 Z 1

MSSCC

30 Sep 69

SSP 46.84W 0.18N

Seq	End Time	Remarks
1	16 31 41	Half Scan Tropical Storm Inga
2	16 47 36	Half Scan Tropical Storm Inga
3	18 21 03	Half Scan Tropical Storm Inga
4	18 38 54	Half Scan Tropical Storm Inga
5	18 55 33	Half Scan Tropical Storm Inga
6	19 11 56	Half Scan Tropical Storm Inga
7	19 28 08	Half Scan Tropical Storm Inga
8	19 43 46	Half Scan Tropical Storm Inga
9	19 59 32	Half Scan Tropical Storm Inga
10	20 15 01	Half Scan Tropical Storm Inga
11	20 30 11	Half Scan Tropical Storm Inga
12	20 45 25	Half Scan Tropical Storm Inga
13	21 00 14	Half Scan Tropical Storm Inga



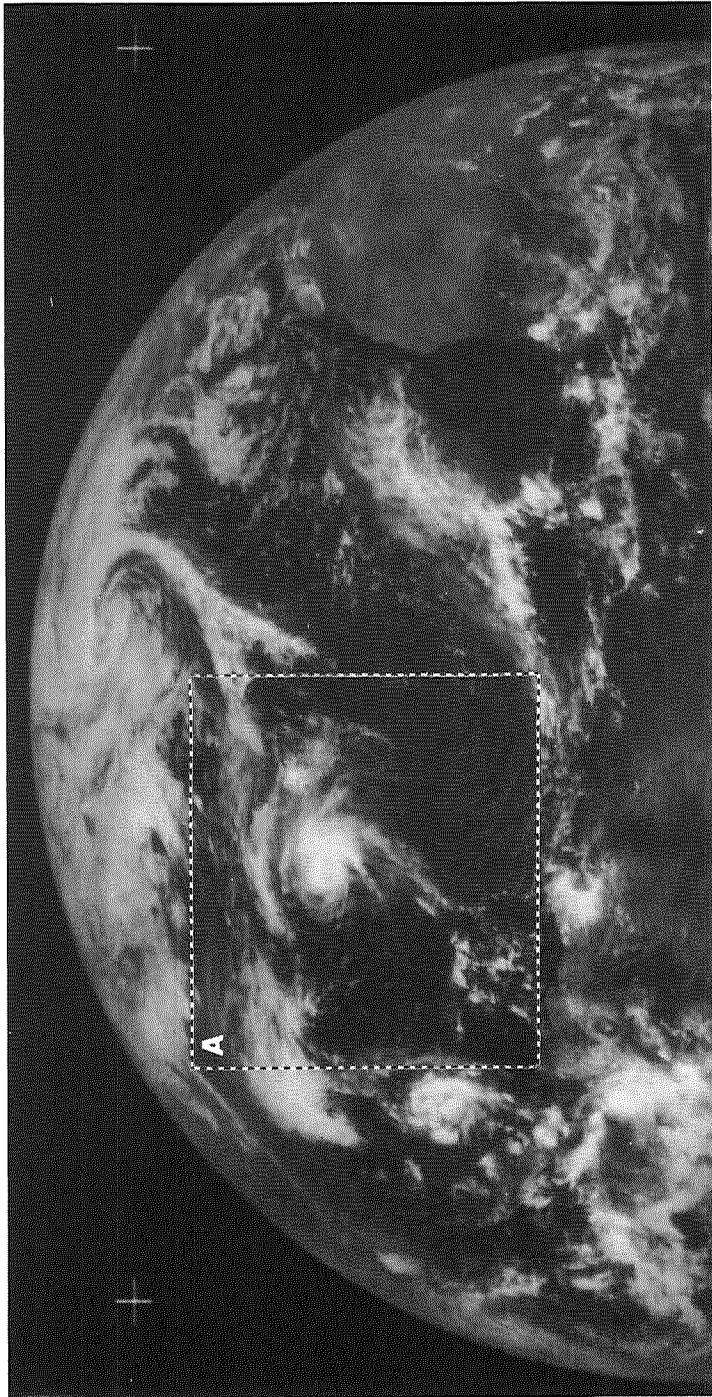
ATS-III MSSCC 30 SEP 69 16 31 41 Z 1

MSSCC

1 Oct 69

SSP 46.75W 0.19N

Seq	End Time	Remarks
1	10 09 58	Half Scan
2	10 25 26	Half Scan
3	10 41 03	Half Scan
4	11 06 16	Half Scan Hurricane Inga
5	11 22 02	Half Scan Hurricane Inga
6	11 37 37	Half Scan Hurricane Inga
7	11 53 08	Half Scan Hurricane Inga
8	12 08 28	Half Scan Hurricane Inga
9	12 24 04	Half Scan Hurricane Inga
10	13 00 09	Half Scan Hurricane Inga
11	13 12 58	Half Scan Hurricane Inga
12	13 25 46	Half Scan Hurricane Inga
13	13 38 37	Half Scan Hurricane Inga
14	13 51 24	Half Scan Hurricane Inga
15	14 04 33	Half Scan Hurricane Inga
16	14 17 38	Half Scan Hurricane Inga
17	14 30 26	Half Scan Hurricane Inga
18	14 43 16	Half Scan Hurricane Inga
19	15 07 15	Half Scan Hurricane Inga
20	15 20 22	Half Scan Hurricane Inga
21	15 33 21	Half Scan Hurricane Inga
22	15 51 52	Half Scan Hurricane Inga
23	16 04 40	Half Scan Hurricane Inga
24	16 17 29	Half Scan Hurricane Inga
25	16 47 11	Half Scan Hurricane Inga
26	17 00 01	Half Scan Hurricane Inga
27	17 12 54	Half Scan Hurricane Inga
28	17 25 40	Half Scan Hurricane Inga
29	17 51 25	Half Scan Hurricane Inga Slight Phasing Error
30	18 04 10	Half Scan Hurricane Inga Slight Phasing Error
31	18 17 00	Half Scan Hurricane Inga Slight Phasing Error
32	18 29 51	Half Scan Hurricane Inga Slight Phasing Error
33	18 46 56	Half Scan Hurricane Inga Slight Phasing Error
34	18 59 47	Half Scan Hurricane Inga Slight Phasing Error
35	19 12 34	Half Scan Hurricane Inga Slight Phasing Error
36	19 25 28	Half Scan Hurricane Inga Slight Phasing Error
37	19 44 59	Half Scan Hurricane Inga Slight Phasing Error
38	19 57 47	Half Scan Hurricane Inga Slight Phasing Error
39	20 10 35	Half Scan Hurricane Inga Slight Phasing Error
40	20 23 22	Half Scan Hurricane Inga Slight Phasing Error
41	20 42 20	Half Scan Hurricane Inga Phasing Error
42	20 55 06	Half Scan Hurricane Inga Phasing Error



ATS-III MSSCC 1 OCT 69 15 07 15 Z 19

MSSCC

4 Oct 69

SSP 46.46W 0.21N

Seq	End Time	Remarks
1	10 37 03	Half Scan
2	10 54 01	Half Scan
3	11 07 06	Half Scan Hurricane Inga
4	11 20 13	Half Scan Hurricane Inga

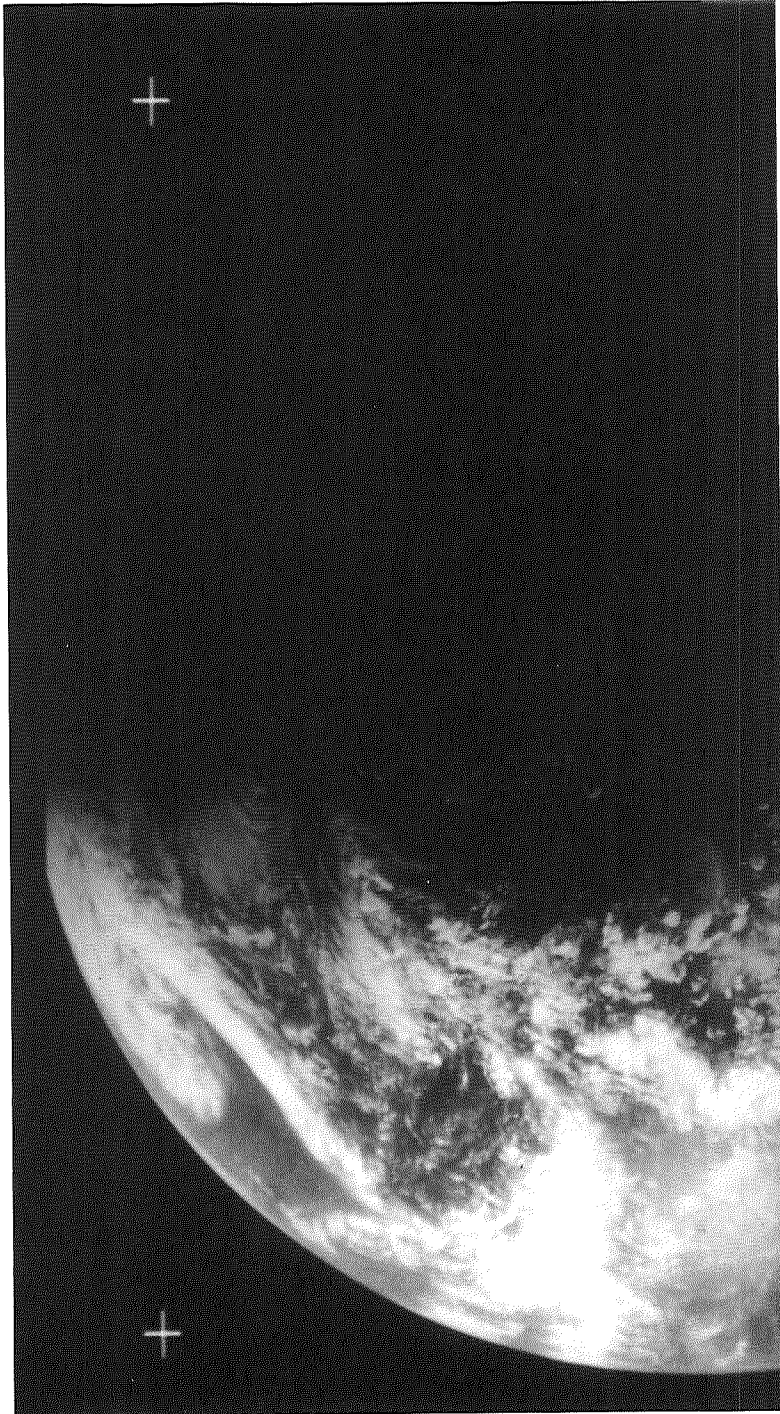


ATS-III MSSCC 4 OCT 69 11 20 13 Z 4

MSSCC

7 Oct 69 SSP 46.20W 0.23N

Seq	End Time	Remarks
1	20 53 05	Half Scan



ATS-III MSSCC 7 OCT 69 20 53 05 Z 1

MSSCC

8 Oct 69

SSP 46.11W 0.24N

Seq	End Time	Remarks
1	10 38 04	
2	16 00 10	
3	16 25 50	
4	16 51 32	
5	17 21 39	
6	17 47 19	
7	18 12 58	



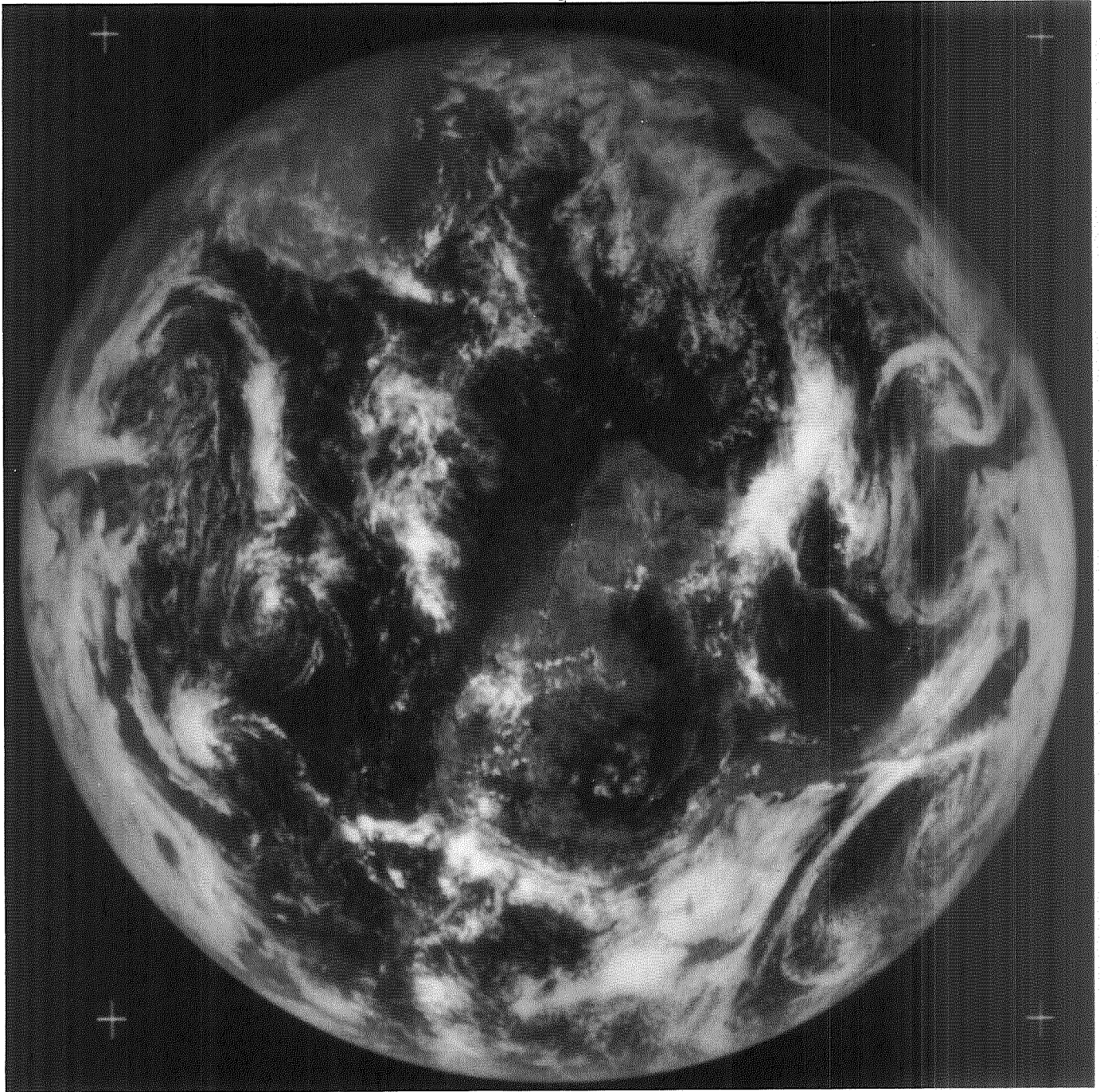
ATS-III MSSCC 8 OCT 69 16 00 10 Z 2

MSSCC

11 Oct 69

SSP 45.86W 0.26N

Seq	End Time	Remarks
1	11 15 05	Few Lines Dropout
2	15 07 57	Voltage Change
3	15 39 20	



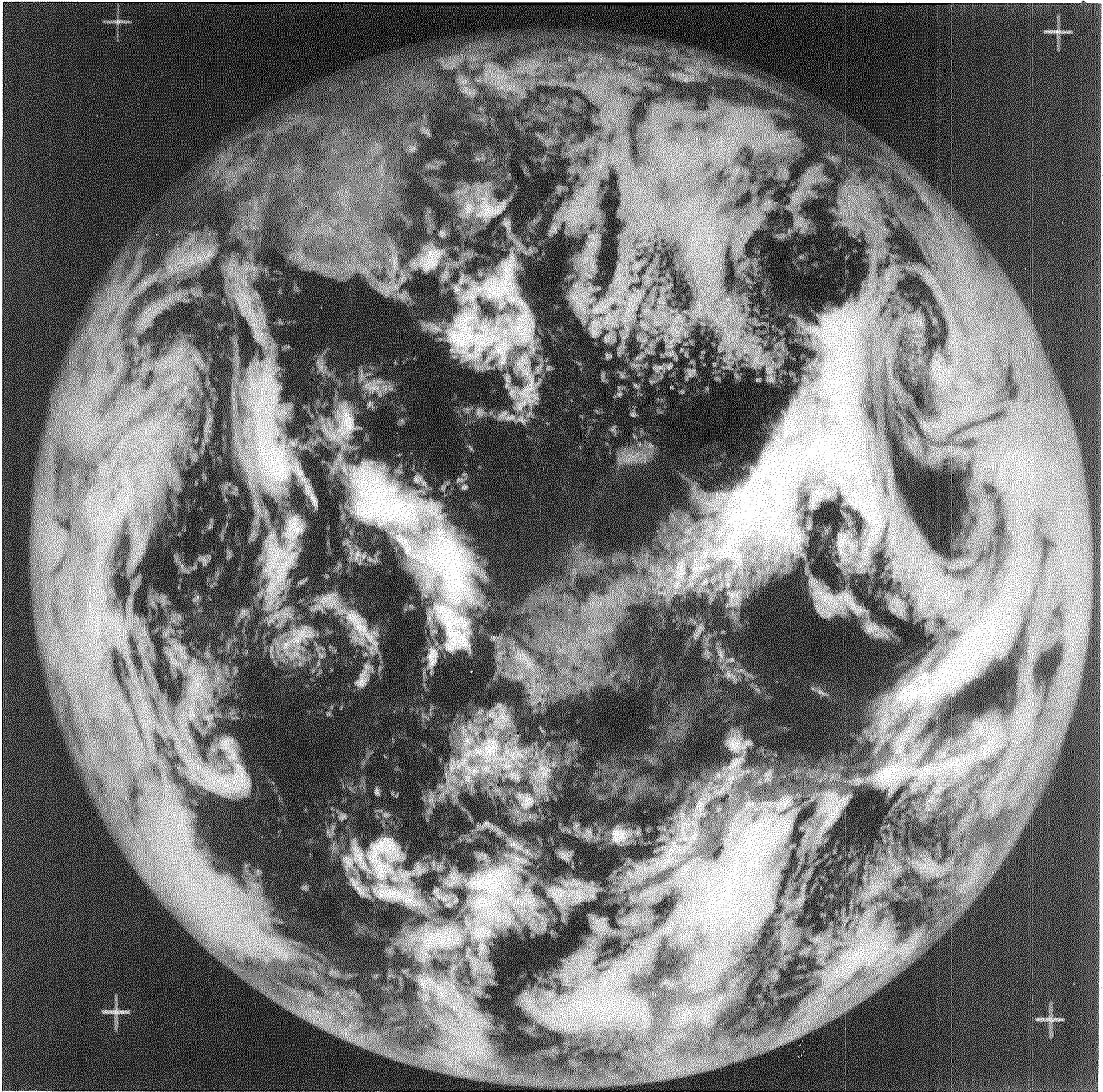
ATS-III MSSCC 11 OCT 69 15 39 20 Z 3

MSSCC

12 Oct 69

SSP 45.79W 0.26N

Seq	End Time	Remarks
1	10 30 25	
2	15 24 14	Hurricane Inga Tropical Storm Kara
3	15 50 00	Hurricane Inga Tropical Storm Kara
4	16 15 36	Hurricane Inga Tropical Storm Kara Noise Dropout
5	16 41 15	100 Line Dropout Storms Inga and Kara
6	17 06 58	Hurricane Inga Tropical Storm Kara
7	17 35 59	Noise Storms Inga and Kara
8	20 53 06	Tropical Storm Kara



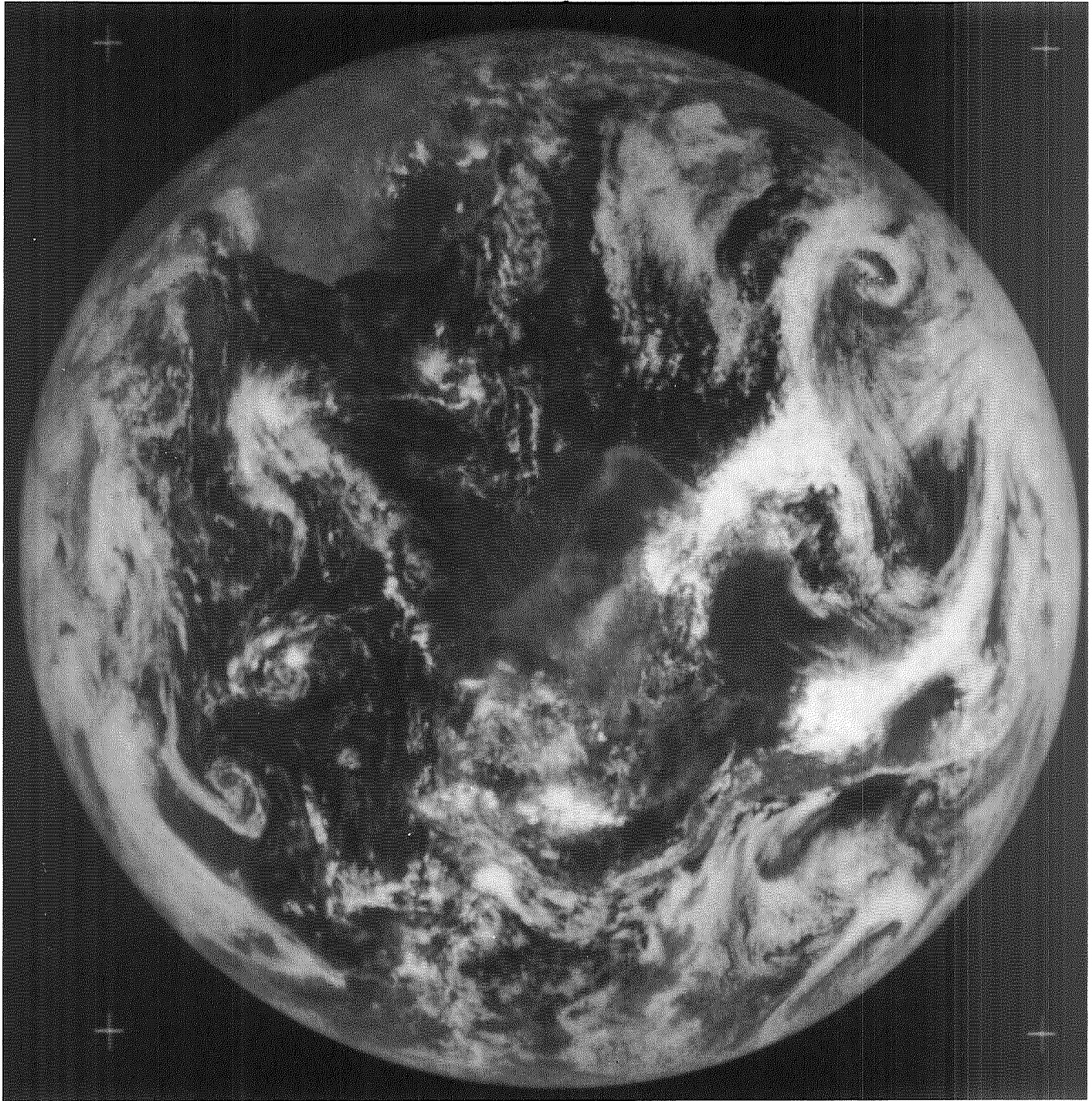
ATS-III MSSCC 12 OCT 69 15 24 14 Z 2

MSSCC

13 Oct 69

SSP 45.76W 0.18N

Seq	End Time	Remarks
1	15 26 29	
2	15 52 09	
3	16 23 21	
4	16 49 03	
5	17 14 43	
6	17 40 26	
7	18 06 05	



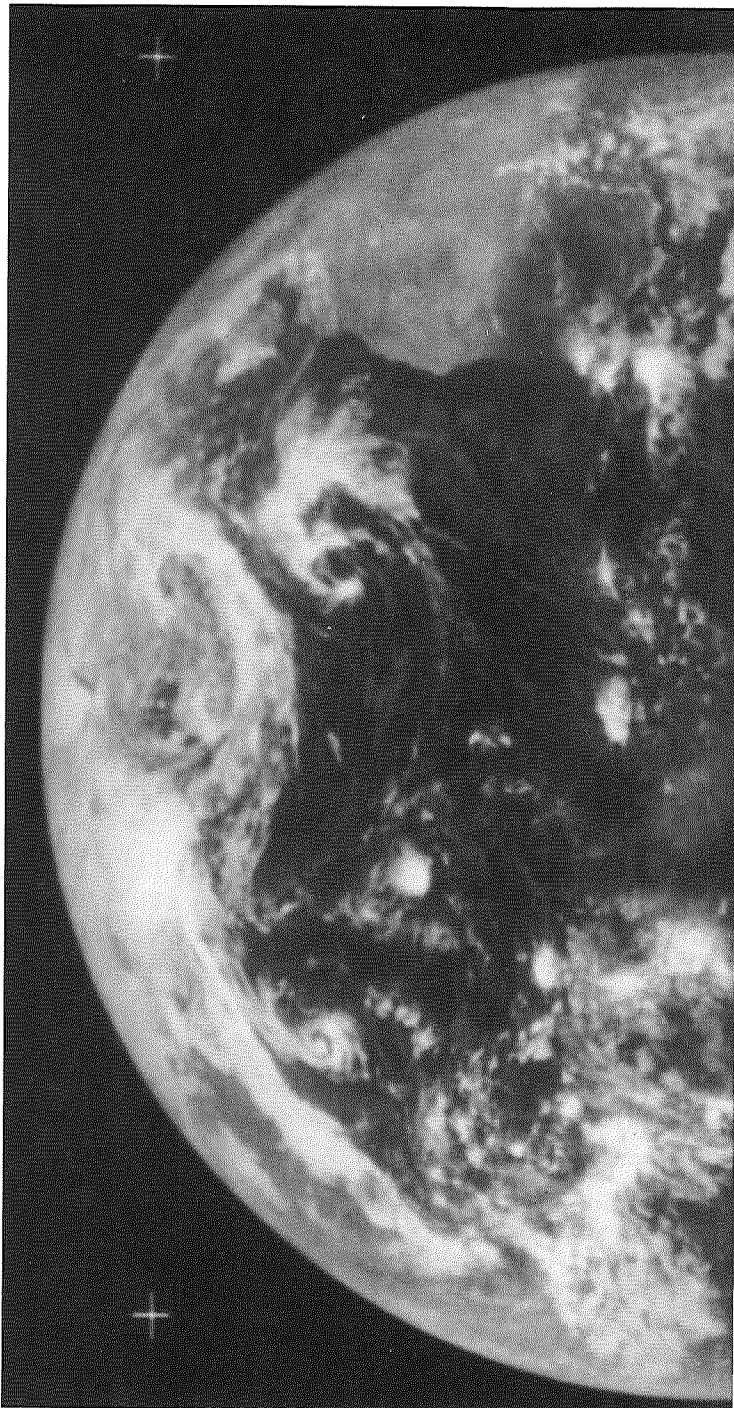
ATS-III MSSCC 13 OCT 69 15 26 29 Z 1

MSSCC

14 Oct 69

SSP 45.68W 0.18N

Seq	End Time	Remarks
1	10 34 28	
2	15 09 10	Half Scan Tropical Storm Kara
3	15 21 57	Half Scan Tropical Storm Kara
4	15 30 00	Half Scan Tropical Storm Kara
5	15 58 25	Half Scan Tropical Storm Kara Poor Contrast Noise
6	16 11 14	Half Scan Tropical Storm Kara
7	16 30 07	Half Scan Tropical Storm Kara
8	16 43 12	Half Scan Tropical Storm Kara
9	16 56 05	Half Scan Tropical Storm Kara
10	17 09 04	Half Scan Tropical Storm Kara
11	17 21 52	Half Scan Tropical Storm Kara
12	17 35 00	Half Scan Tropical Storm Kara
13	17 47 27	Half Scan Tropical Storm Kara
14	18 01 41	Half Scan Tropical Storm Kara
15	18 14 53	Half Scan Tropical Storm Kara
16	18 27 49	Half Scan Tropical Storm Kara
17	18 40 36	Half Scan Tropical Storm Kara
18	18 53 54	Half Scan Tropical Storm Kara
19	19 06 58	Half Scan Tropical Storm Kara
20	19 19 46	Half Scan Tropical Storm Kara
21	19 32 53	Half Scan Tropical Storm Kara
22	19 45 40	Half Scan Tropical Storm Kara
23	19 58 36	Half Scan Tropical Storm Kara
24	20 11 22	Half Scan Tropical Storm Kara
25	20 24 18	Half Scan Tropical Storm Kara
26	20 37 05	Half Scan Tropical Storm Kara
27	20 50 07	Half Scan Tropical Storm Kara



ATS-III MSSCC 14 OCT 69 15 09 10 Z 2

MSSCC

15 Oct 69

SSP 45.60W 0.18N

Seq	End Time	Remarks
1	11 44 40	Half Scan Sync Problem
2	12 02 06	Half Scan Sync Problem
3	12 14 52	Half Scan
4	12 28 11	Half Scan Hurricane Kara Sync Problem
5	12 41 01	Half Scan Hurricane Kara Sync Problem
6	12 57 16	Half Scan Hurricane Kara Sync Problem Dropouts
7	13 10 17	Half Scan Hurricane Kara Sync Problem
8	13 23 06	Half Scan Hurricane Kara Noise
9	13 36 35	Half Scan Hurricane Kara Sync Problem
10	13 41 44	Half Scan Hurricane Kara Sync Problem
11	14 02 26	Half Scan Hurricane Kara Sync Problem
12	14 15 18	Half Scan Hurricane Kara Noise Sync Problem
13	14 28 09	Half Scan Hurricane Kara Noise Sync Problem
14	14 40 55	Half Scan Hurricane Kara Noise Sync Problem
15	14 54 25	Half Scan Hurricane Kara Slight Sync Problem
16	15 07 34	Half Scan Hurricane Kara Noise Sync Problem
17	15 20 42	Half Scan Hurricane Kara Sync Problem
18	15 33 43	Half Scan Hurricane Kara Sync Problem
19	15 47 48	Half Scan Hurricane Kara Sync Problem
20	16 00 37	Half Scan Hurricane Kara Sync Problem
21	16 13 42	Half Scan Hurricane Kara Sync Problem Noise
22	16 26 28	Half Scan Hurricane Kara Sync Problem Noise
23	16 39 16	Half Scan Hurricane Kara Sync Problem Noise
24	16 52 07	Half Scan Hurricane Kara Sync Problem Noise
25	17 05 03	Half Scan Hurricane Kara Sync Problem
26	17 18 15	Half Scan Hurricane Kara Sync Problem
27	17 32 01	Half Scan Hurricane Kara Sync Problem
28	17 44 51	Half Scan Hurricane Kara Sync Problem
29	17 57 48	Half Scan Hurricane Kara Sync Problem
30	18 13 26	Half Scan Hurricane Kara Sync Problem
31	18 26 33	Half Scan Hurricane Kara Sync Problem
32	18 39 27	Half Scan Hurricane Kara Sync Problem Noise
33	18 52 10	Half Scan Hurricane Kara Sync Problem Noise
34	19 04 58	Half Scan Hurricane Kara Sync Problem
35	19 17 46	Half Scan Hurricane Kara
36	19 30 35	Half Scan Hurricane Kara
37	19 43 23	Half Scan Hurricane Kara Noise
38	20 01 30	Half Scan Hurricane Kara
39	20 14 27	Half Scan Hurricane Kara
40	20 27 29	Half Scan Hurricane Kara
41	20 40 17	Half Scan Hurricane Kara Noise
42	20 53 04	Half Scan Hurricane Kara



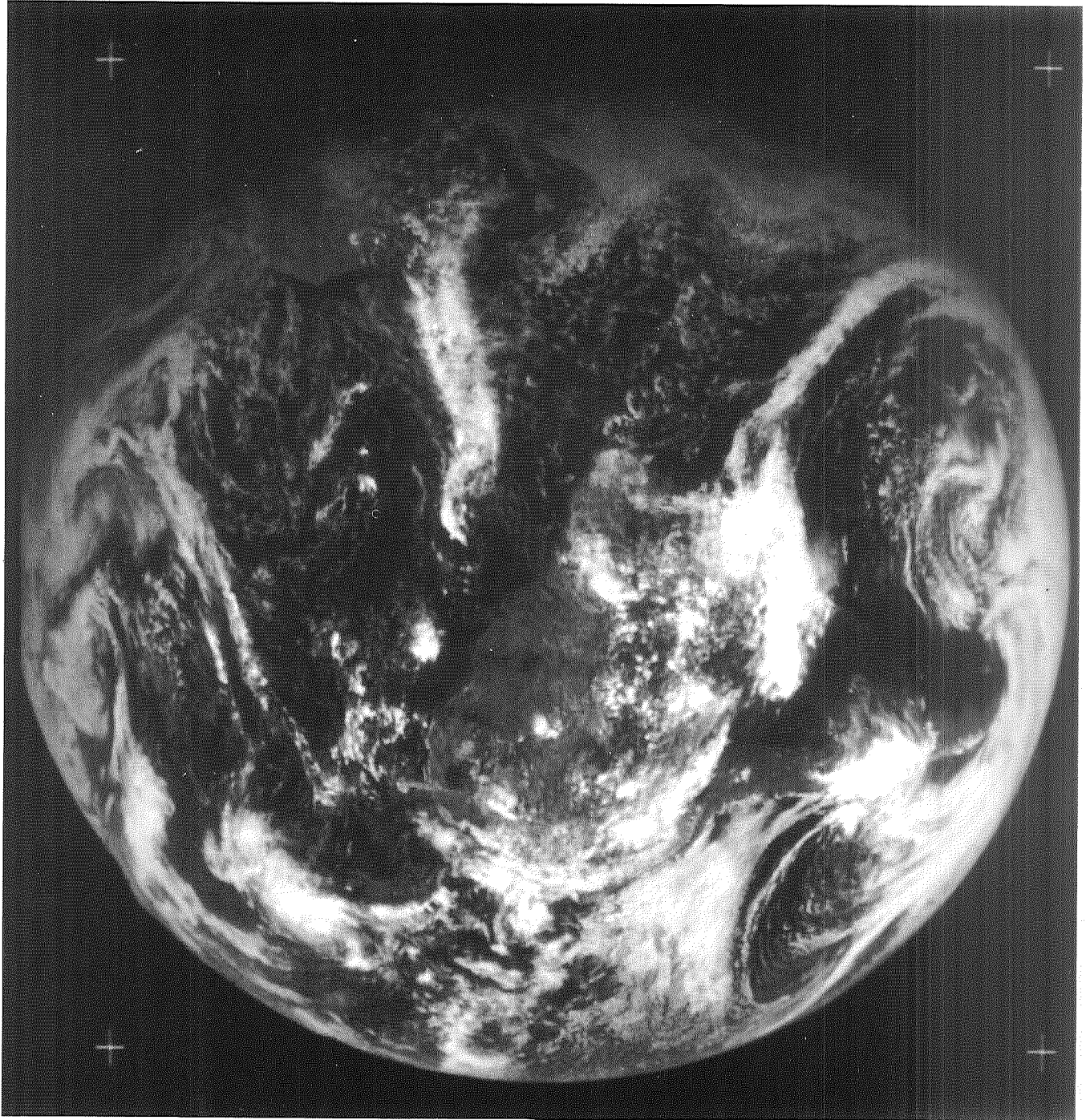
ATS-III MSSCC 15 OCT 69 15 20 42 Z 17

MSSCC

19 Oct 69

SSP 45.31W 0.19N

Seq	End Time	Remarks
1	10 50 44	
2	11 16 27	
3	13 04 35	Tropical Storm Laurie
4	13 30 41	No Data
5	13 44 49	Tropical Storm Laurie
6	14 21 36	Tropical Storm Laurie Several Dropouts
7	14 47 19	Tropical Storm Laurie Several Dropouts
8	16 59 55	Tropical Storm Laurie Slight Sync Problem
9	17 25 38	Tropical Storm Laurie Slight Sync Problem
10	17 51 17	Tropical Storm Laurie Slight Sync Problem
11	18 17 00	Tropical Storm Laurie
12	18 42 39	Tropical Storm Laurie
13	19 08 22	Tropical Storm Laurie
14	19 34 04	Tropical Storm Laurie
15	19 59 44	Tropical Storm Laurie Dropout
16	20 25 26	Tropical Storm Laurie
17	20 51 09	Tropical Storm Laurie



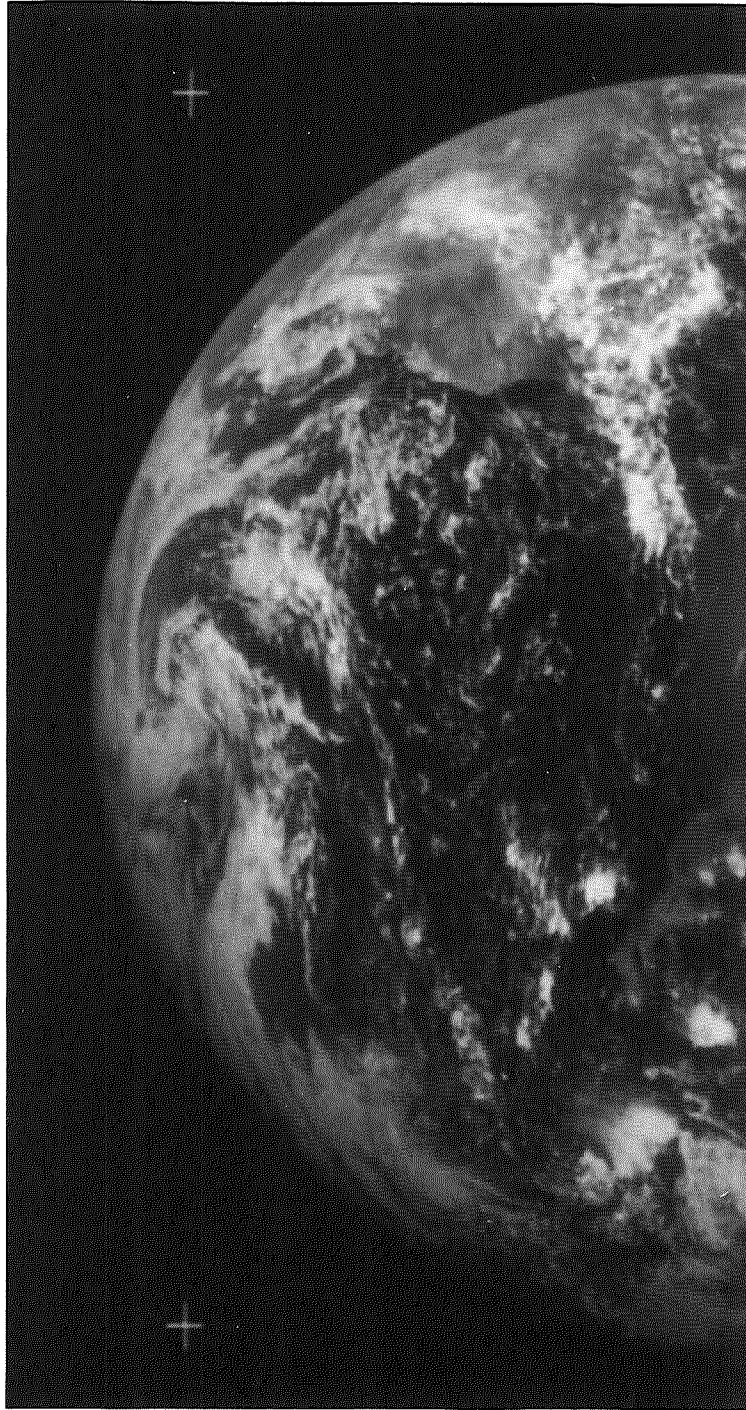
ATS-III MSSCC 19 OCT 69 16 59 55 Z 8

MSSCC

20 Oct 69

SSP 45.24W 0.20N

Seq	End Time	Remarks
1	10 24 16	Half Scan
2	10 37 01	No Data
3	10 49 52	No Data
4	11 02 41	No Data
5	11 15 29	Half Scan
6	11 28 15	No Data
7	11 41 06	Half Scan
8	11 53 52	Half Scan
9	12 06 54	Half Scan
10	12 19 44	Half Scan
11	12 32 40	Half Scan
12	12 45 28	No Data
13	12 58 13	Half Scan Tropical Storm Laurie
14	13 11 01	Half Scan Tropical Storm Laurie
15	13 24 05	Half Scan Tropical Storm Laurie
16	13 36 50	Half Scan Tropical Storm Laurie
17	13 49 36	Half Scan Tropical Storm Laurie
18	14 02 21	Half Scan Tropical Storm Laurie
19	14 14 54	Half Scan Tropical Storm Laurie
20	14 58 39	Half Scan Tropical Storm Laurie
21	15 11 28	Half Scan Tropical Storm Laurie
22	15 24 16	Half Scan Tropical Storm Laurie
23	15 37 11	No Data
24	15 50 02	Half Scan Tropical Storm Laurie
25	16 02 50	Half Scan Tropical Storm Laurie
26	16 15 37	Half Scan Tropical Storm Laurie
27	16 28 35	Half Scan Tropical Storm Laurie
28	16 55 07	Half Scan Tropical Storm Laurie
29	17 29 58	Half Scan Tropical Storm Laurie
30	17 59 53	Half Scan Tropical Storm Laurie
31	18 23 09	Half Scan Tropical Storm Laurie
32	18 45 56	Half Scan Tropical Storm Laurie
33	19 15 57	Half Scan Tropical Storm Laurie
34	19 41 55	Half Scan Tropical Storm Laurie
35	20 06 44	Half Scan Tropical Storm Laurie
36	20 31 33	Half Scan Tropical Storm Laurie
37	20 54 37	Half Scan Tropical Storm Laurie



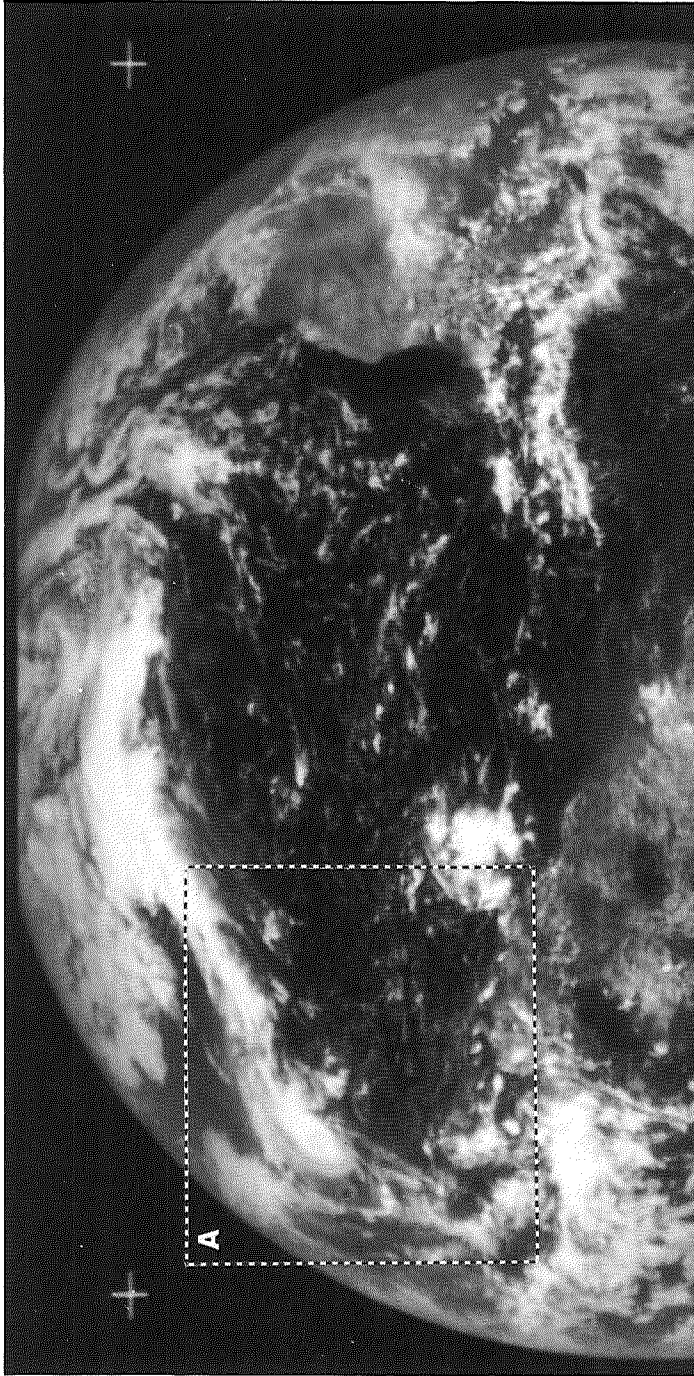
ATS-III MSSCC 20 OCT 69 13 24 05 Z 15

MSSCC

21 Oct 69

SSP 45.17W 0.20N

Seq	End Time	Remarks
1	10 34 28	Half Scan
2	10 47 22	Half Scan
3	11 00 10	Half Scan
4	11 12 59	Half Scan
5	11 25 50	Half Scan
6	11 38 35	Half Scan
7	11 51 23	Half Scan
8	12 04 14	Half Scan
9	12 17 04	Half Scan
10	12 29 56	Half Scan
11	12 42 52	Half Scan
12	12 55 40	Half Scan Hurricane Laurie
13	13 15 29	Half Scan Hurricane Laurie
14	13 28 16	Half Scan Hurricane Laurie
15	13 53 09	Half Scan Hurricane Laurie Double Exposure at Top
16	14 16 55	Half Scan Hurricane Laurie
17	14 42 52	Half Scan Hurricane Laurie
18	15 08 17	Half Scan Hurricane Laurie
19	15 23 14	Half Scan Hurricane Laurie
20	15 55 57	Half Scan Hurricane Laurie
21	16 32 41	Half Scan Hurricane Laurie
22	16 56 29	Half Scan Hurricane Laurie
23	17 21 33	Half Scan Hurricane Laurie
24	17 44 50	Half Scan Hurricane Laurie
25	18 07 32	Half Scan Hurricane Laurie
26	18 30 43	Half Scan Hurricane Laurie
27	18 55 44	Half Scan Hurricane Laurie
28	19 18 38	Half Scan Hurricane Laurie
29	19 41 22	Half Scan Hurricane Laurie
30	20 03 49	Half Scan Hurricane Laurie
31	20 26 23	Half Scan Hurricane Laurie
32	20 49 19	Half Scan Hurricane Laurie



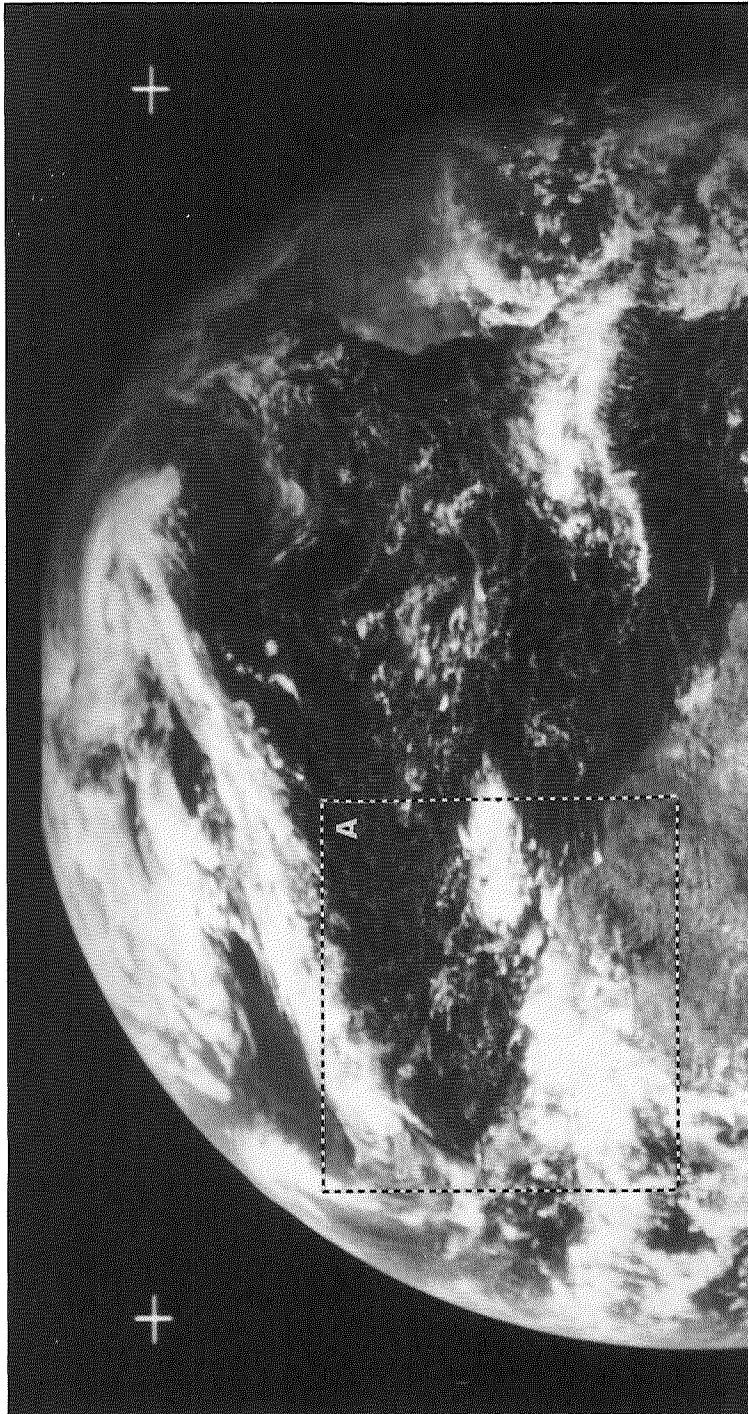
ATS-III MSSCC 21 OCT 69 15 08 17 Z 18

MSSCC

22 Oct 69

SSP 45.11W 0.20N

Seq	End Time	Remarks
1	10 13 14	No Data
2	10 26 19	No Data
3	10 39 10	No Data
4	10 51 56	No Data
5	11 04 56	No Data
6	11 17 44	No Data
7	11 30 29	No Data
8	11 43 18	No Data
9	11 56 03	No Data
10	12 10 14	No Data
11	12 34 28	No Data
12	12 58 30	No Data
13	13 21 57	No Data
14	14 02 35	No Data
15	14 39 12	No Data
16	15 11 48	No Data
17	15 42 22	No Data
18	16 21 16	Half Scan
19	17 07 42	Half Scan
20	17 33 22	Half Scan
21	17 46 11	No Data
22	17 58 58	No Data
23	18 14 59	Half Scan
24	18 57 01	No Data
25	19 28 12	Half Scan
26	20 02 04	Half Scan
27	20 31 42	Half Scan
28	20 55 52	Half Scan



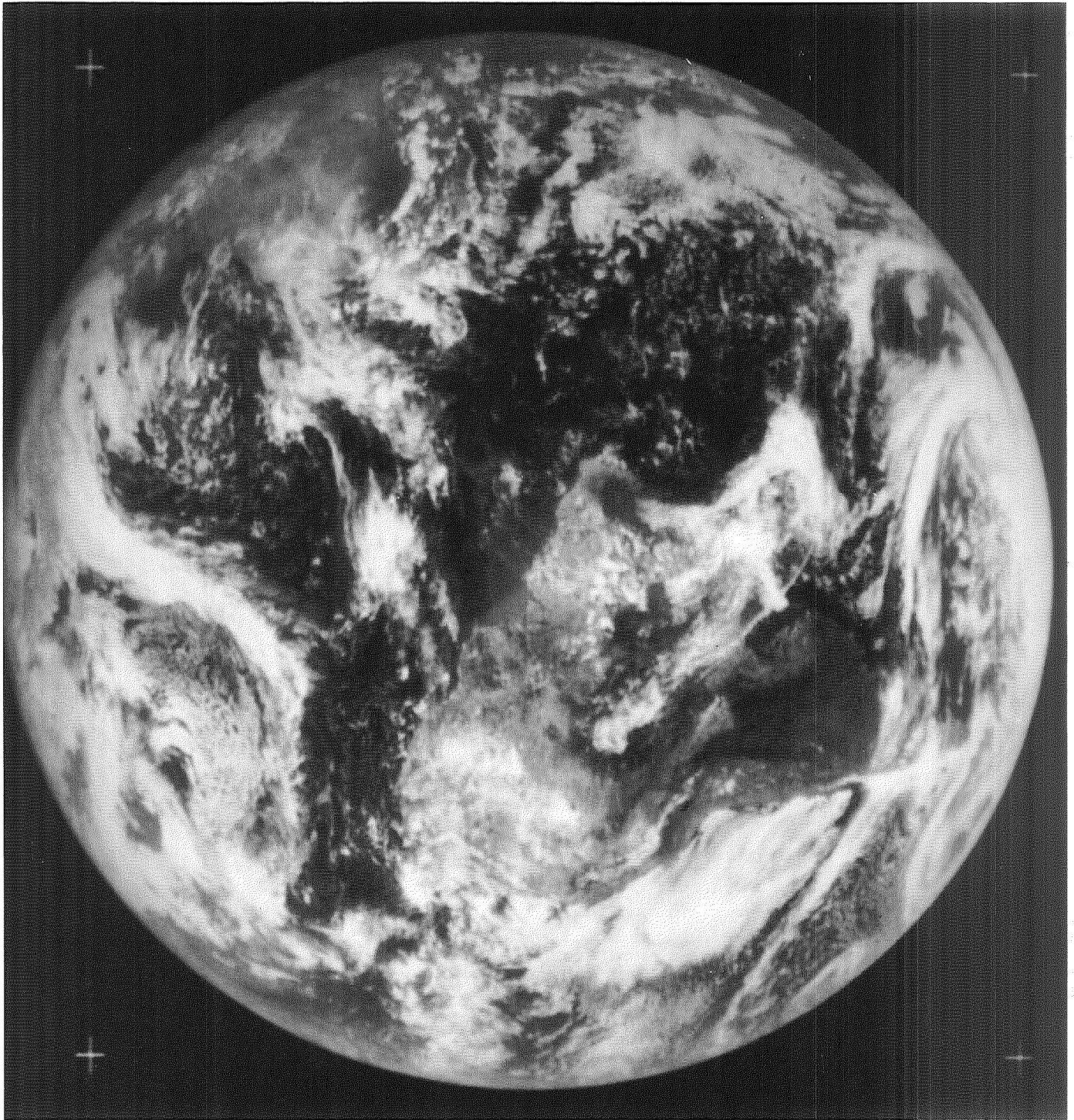
ATS-III MSSCC 22 OCT 69 16 21 16 Z 18

MSSCC

25 Oct 69

SSP 44.92W 0.19N

Seq	End Time	Remarks
1	10 29 03	
2	15 24 31	
3	16 07 02	
4	16 32 41	
5	16 58 24	
6	17 24 03	
7	17 49 46	



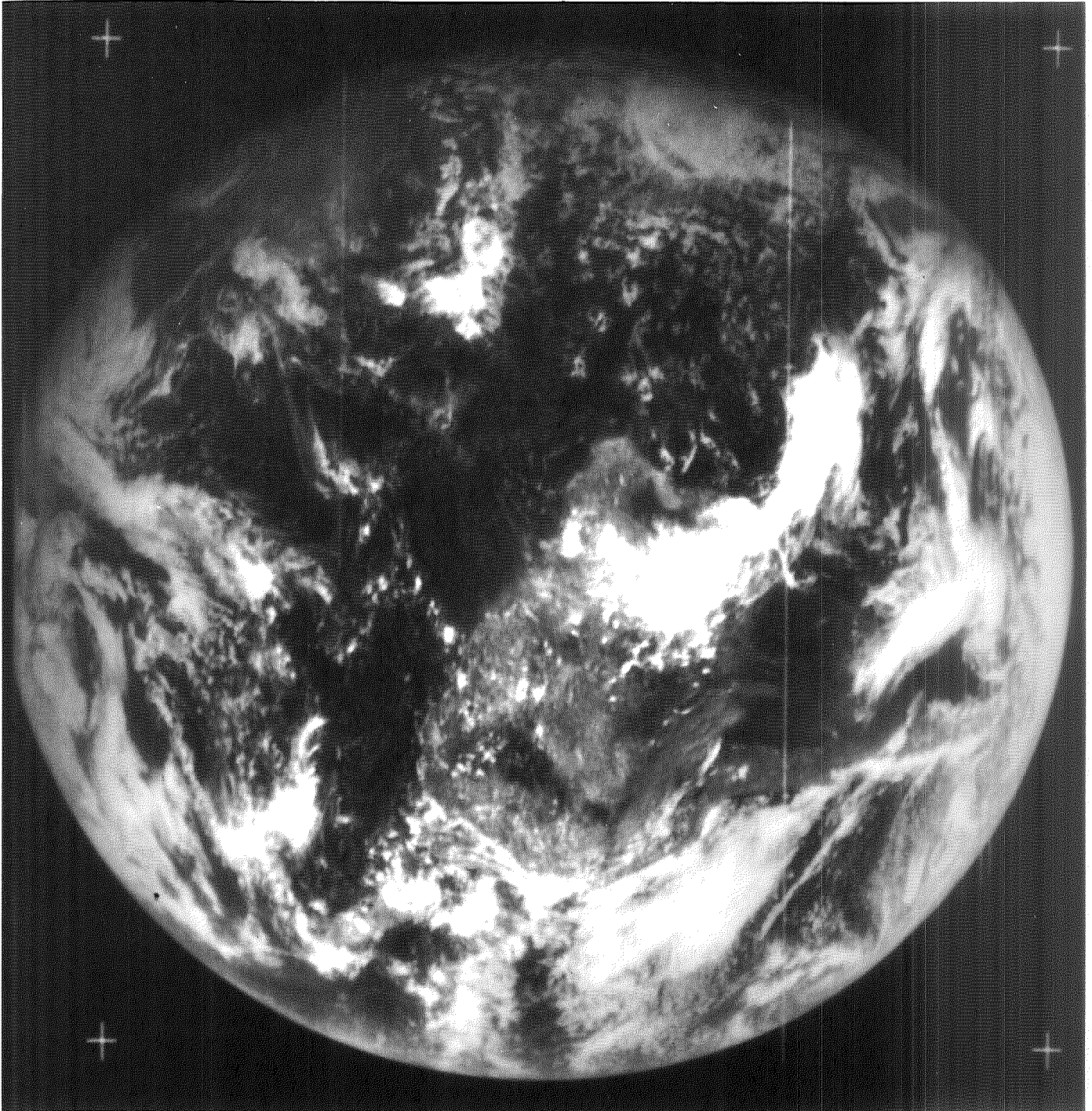
ATS-III MSSCC 25 OCT 69 15 24 31 Z 2

MSSCC

26 Oct 69

SSP 44.86W 0.19N

Seq	End Time	Remarks
1	15 22 32	Slight Noise
2	15 48 15	
3	16 13 55	Slight Noise
4	16 39 37	Slight Noise



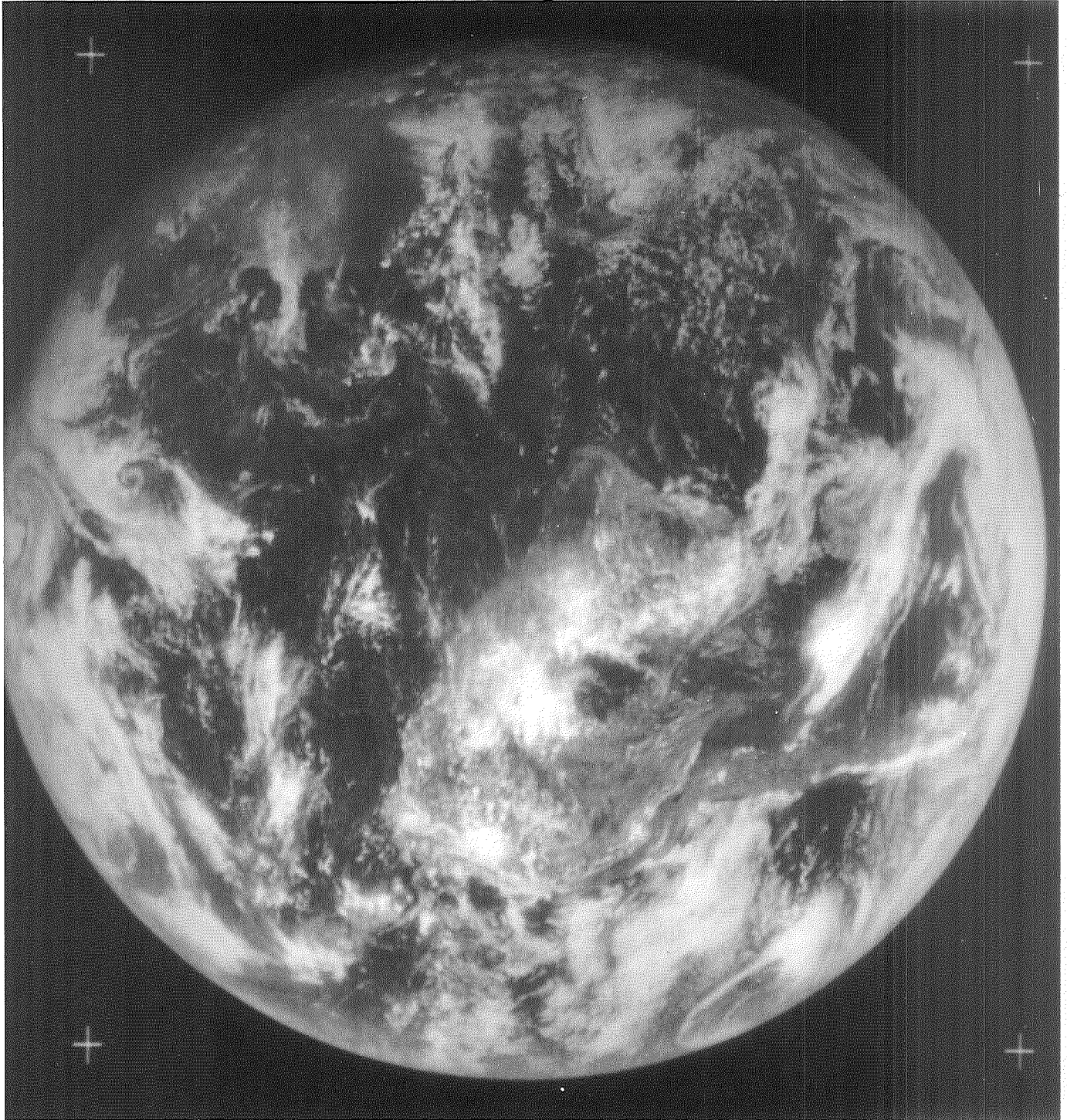
ATS-III MSSCC 26 OCT 69 16 39 37 Z 4

MSSCC

27 Oct 69

SSP 44.80W 0.19N

Seq	End Time	Remarks
1	15 22 42	No Data
2	15 48 33	Slight Noise
3	16 14 13	Slight Noise
4	16 39 56	Slight Noise
5	17 05 35	Slight Noise
6	17 31 18	Slight Noise
7	17 56 57	Slight Noise
8	20 44 07	Slight Noise



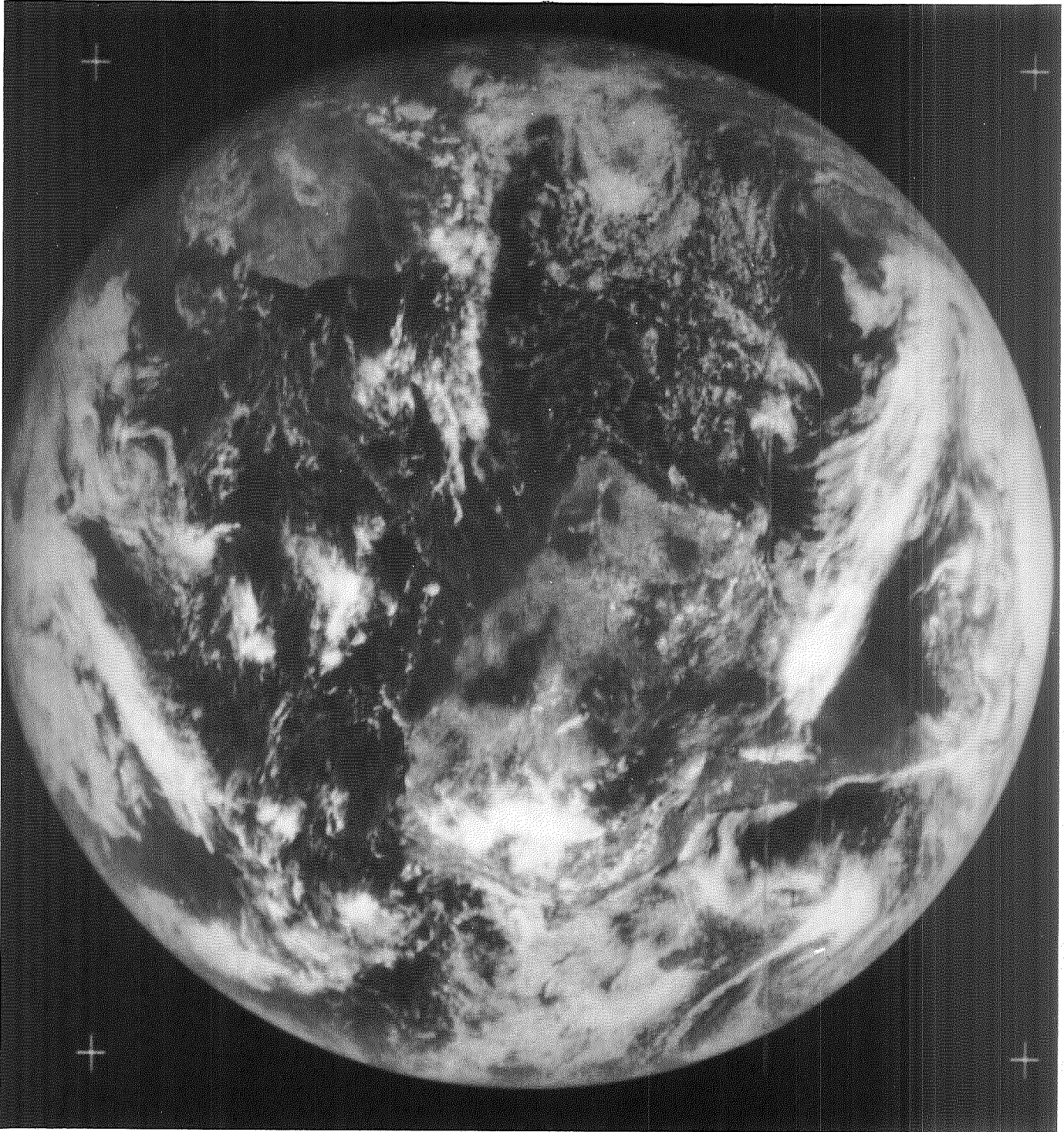
ATS-III MSSCC 27 OCT 69 16 14 13 Z 3

MSSCC

28 Oct 69

SSP 44.74W 0.19N

Seq	End Time	Remarks
1	11 35 44	Slight Noise
2	15 23 04	No Data
3	15 48 49	Slight Noise
4	16 14 29	Slight Noise
5	16 40 08	
6	17 05 51	
7	17 31 34	Slight Noise
8	17 57 13	Slight Noise
9	21 34 30	Slight Noise



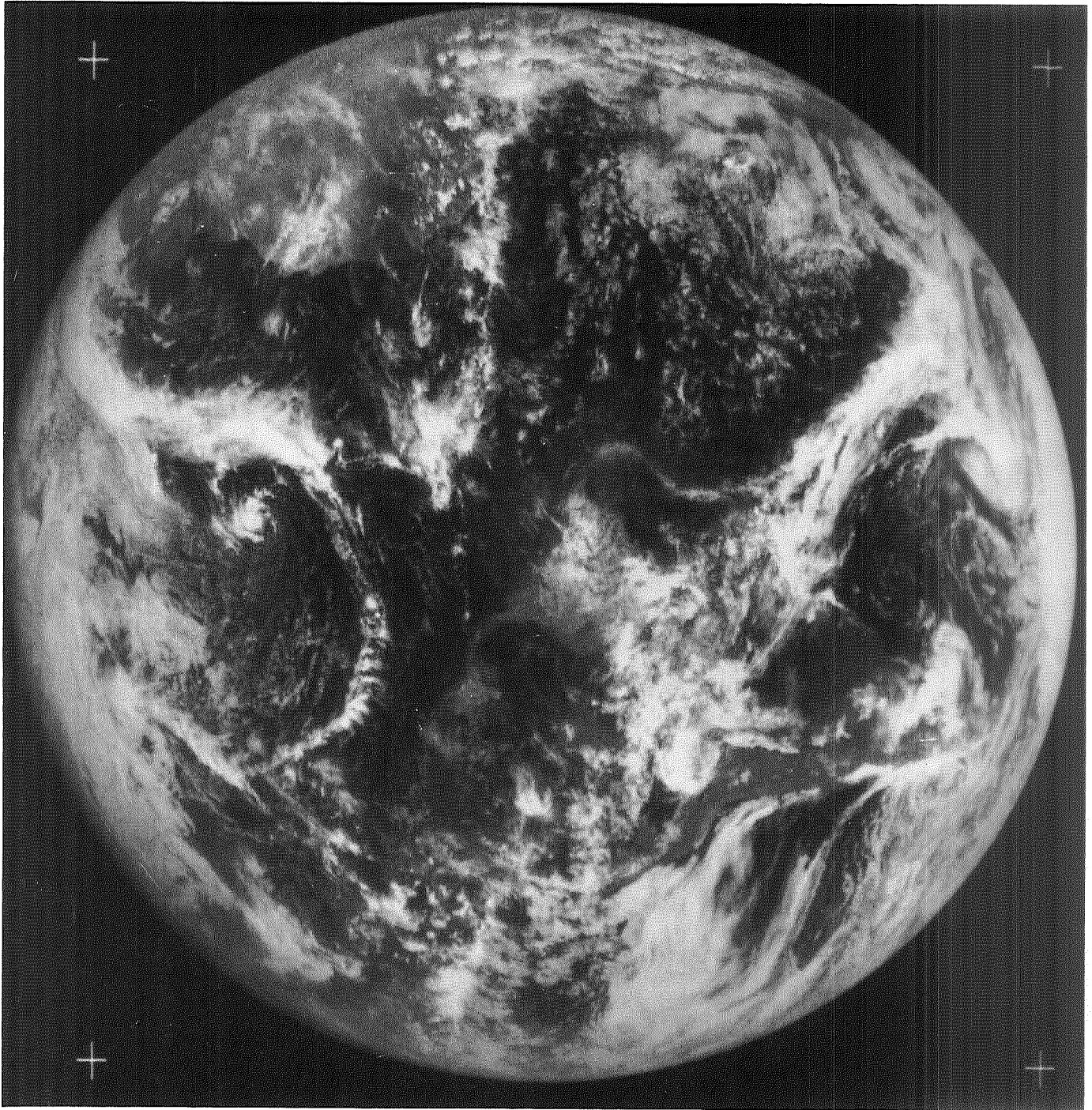
ATS-III MSSCC 28 OCT 69 15 48 49 Z 3

MSSCC

3 Nov 69

SSP 44.68W 0.20N

Seq	End Time	Remarks
1	11 57 12	
2	13 42 22	
3	14 08 04	Dropouts
4	14 33 47	
5	14 59 27	



ATS-III MSSCC 3 NOV 69 14 33 47 Z 4

MSSCC

4 Nov 69

SSP 44.59W 0.20N

Seq	End Time	Remarks
1	11 53 04	Dropout
2	13 19 47	
3	13 45 29	
4	14 13 55	
5	14 42 53	No Data
6	15 09 41	Dropout
7	15 36 32	Noisy at Top Few Dropouts
8	16 03 43	
9	16 30 57	



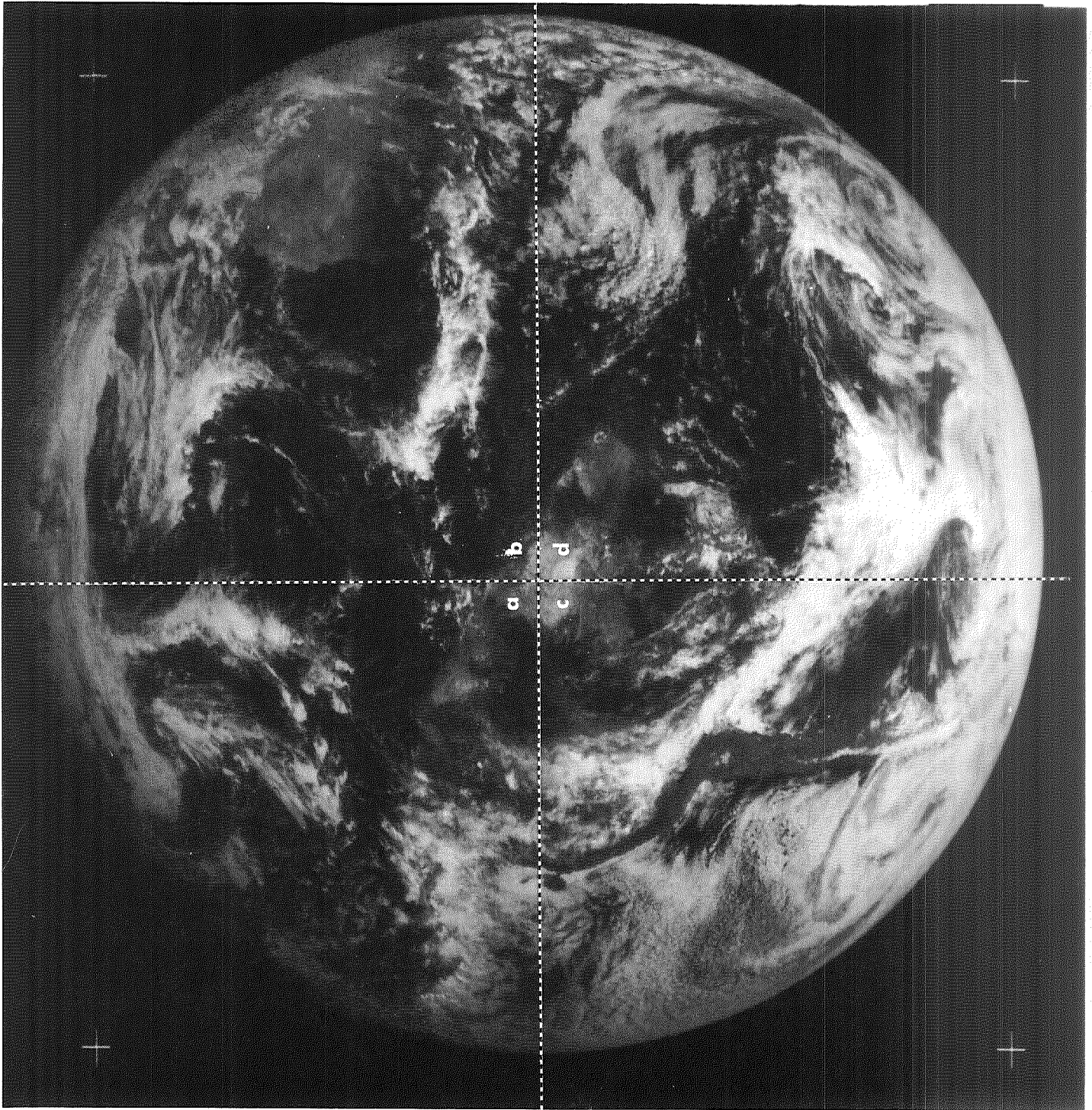
ATS-III MSSCC 4 NOV 69 15 09 41 Z 6d

MSSCC

8 Nov 69

SSP 44.77W 0.19N

Seq	End Time	Remarks
1	12 03 47	Dropout
2	12 59 21	
3	13 26 59	Top 200 Lines Missing
4	13 54 20	
5	14 19 57	
6	14 49 15	
7	15 18 02	Poor Contrast Dropouts
8	16 03 17	
9	16 33 53	



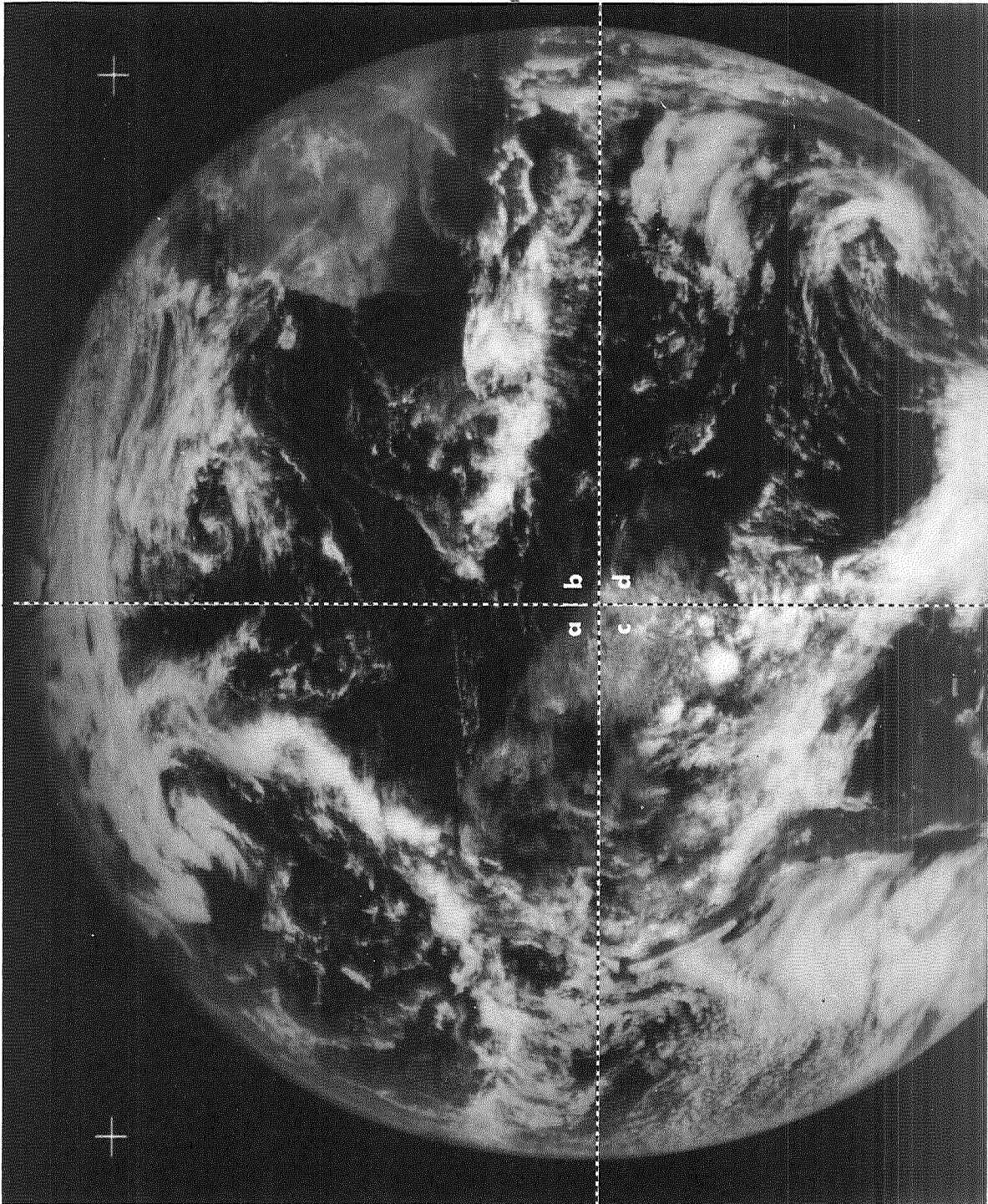
ATS-III MSSCC 8 NOV 69 14 19 57 Z 5

MSSCC

9 Nov 69

SSP 44.79W 0.19N

Seq	End Time	Remarks
1	13 06 40	No Data
2	13 27 06	Noise Dropouts
3	13 54 42	Noise Dropouts
4	14 18 53	Noise Dropouts 5/6 Scan
5	14 44 25	Noise 5/6 Scan
6	15 09 52	Noise 5/6 Scan
7	15 35 36	Noise 5/6 Scan
8	16 01 15	Noise 5/6 Scan Dropout
9	16 26 57	Noise 5/6 Scan



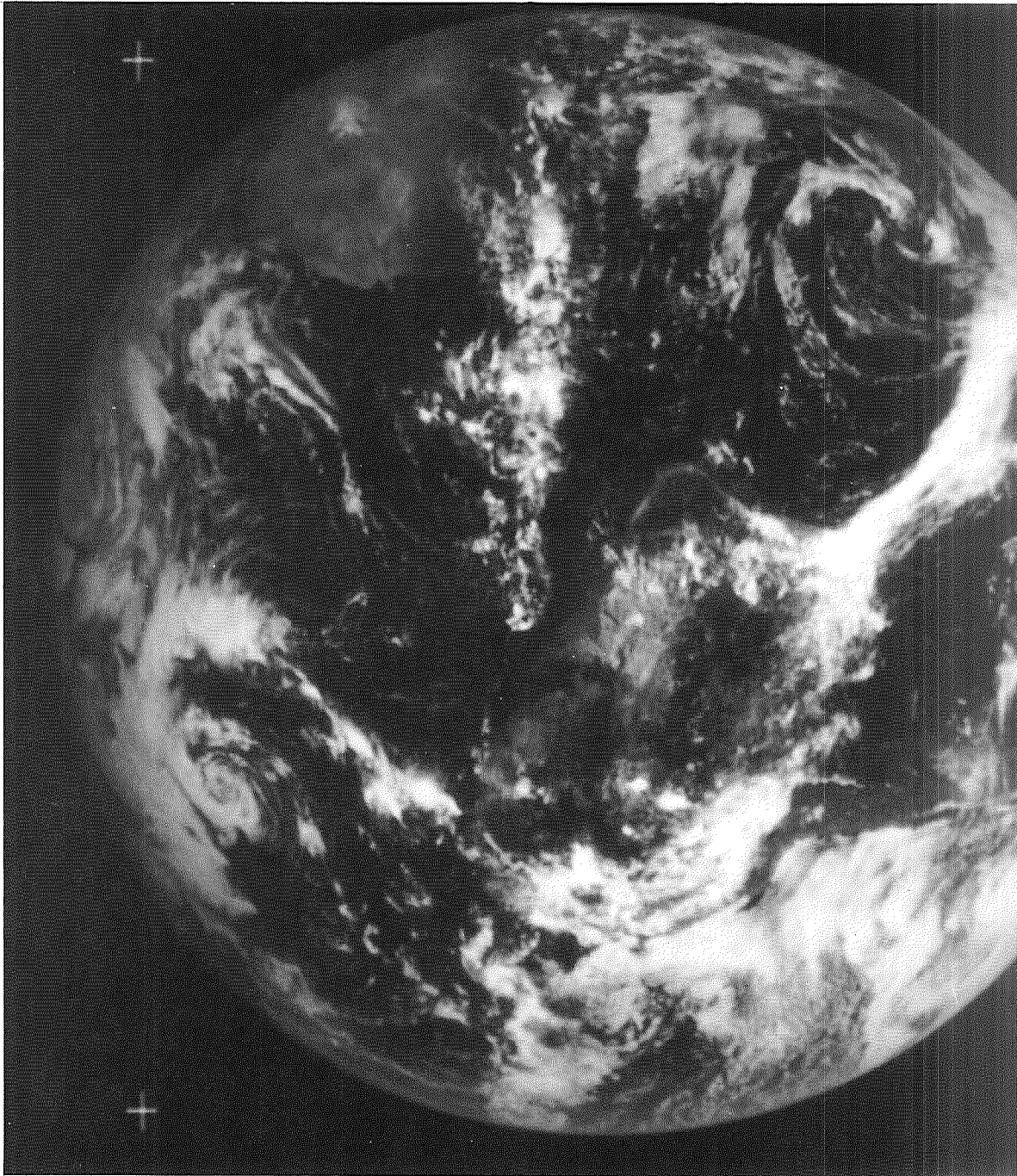
ATS-III MSSCC 9 NOV 69 15 09 52 Z 6d

MSSCC

10 Nov 69

SSP 44.82W 0.19N

Seq	End Time	Remarks
1	11 58 03	5/6 Scan
2	12 22 19	5/6 Scan
3	12 51 22	5/6 Scan
4	13 15 37	5/6 Scan
5	13 40 50	5/6 Scan
6	14 06 32	5/6 Scan
7	14 32 12	5/6 Scan
8	14 57 55	5/6 Scan



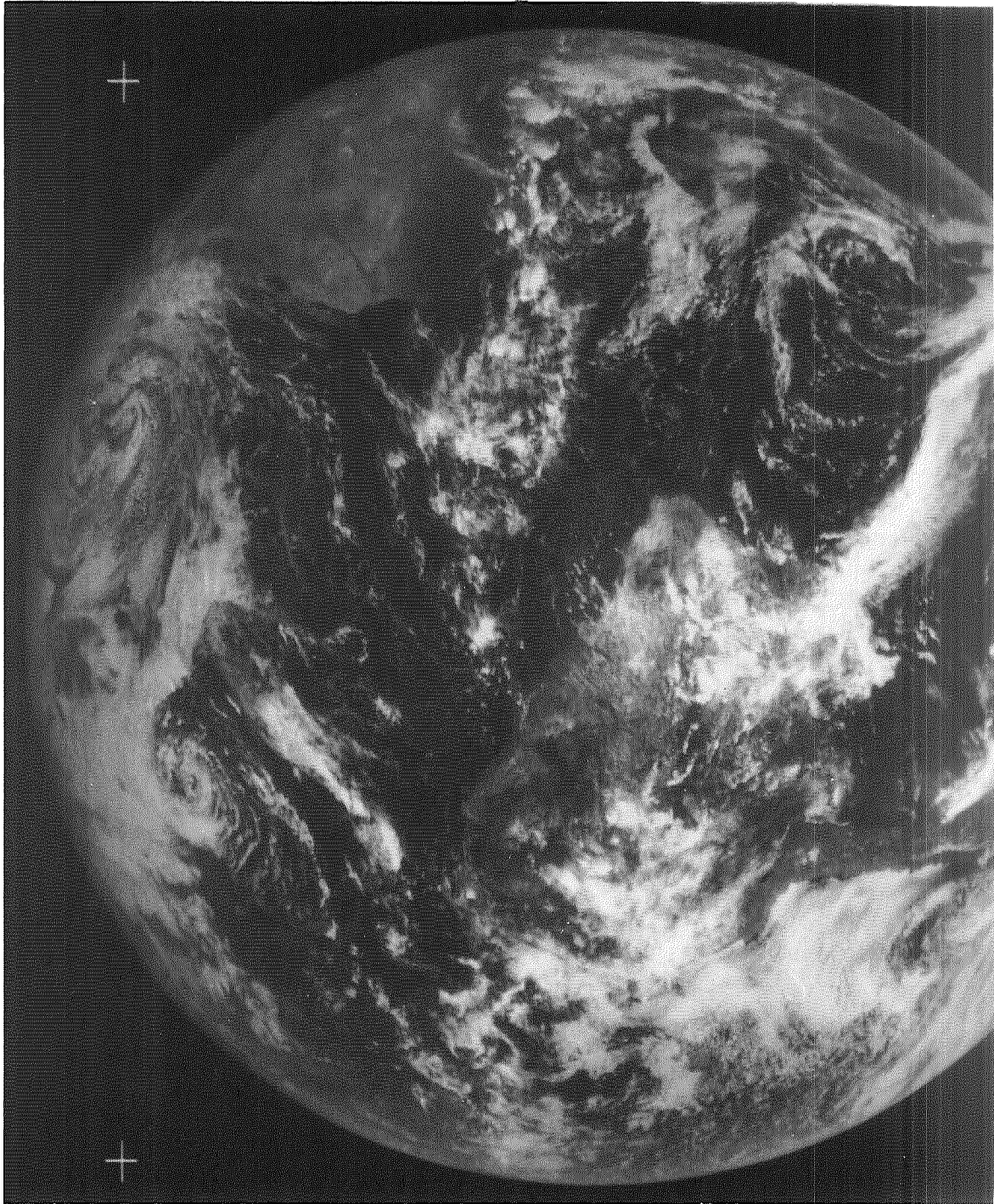
ATS-III MSSCC 10 NOV 69 14 57 55 Z 8

MSSCC

11 Nov 69

SSP 44.84W 0.19N

Seq	End Time	Remarks
1	12 03 45	5/6 Scan
2	12 29 18	5/6 Scan
3	12 55 10	5/6 Scan
4	13 21 11	5/6 Scan
5	13 46 35	5/6 Scan
6	14 12 15	5/6 Scan
7	14 37 57	5/6 Scan
8	15 03 40	5/6 Scan



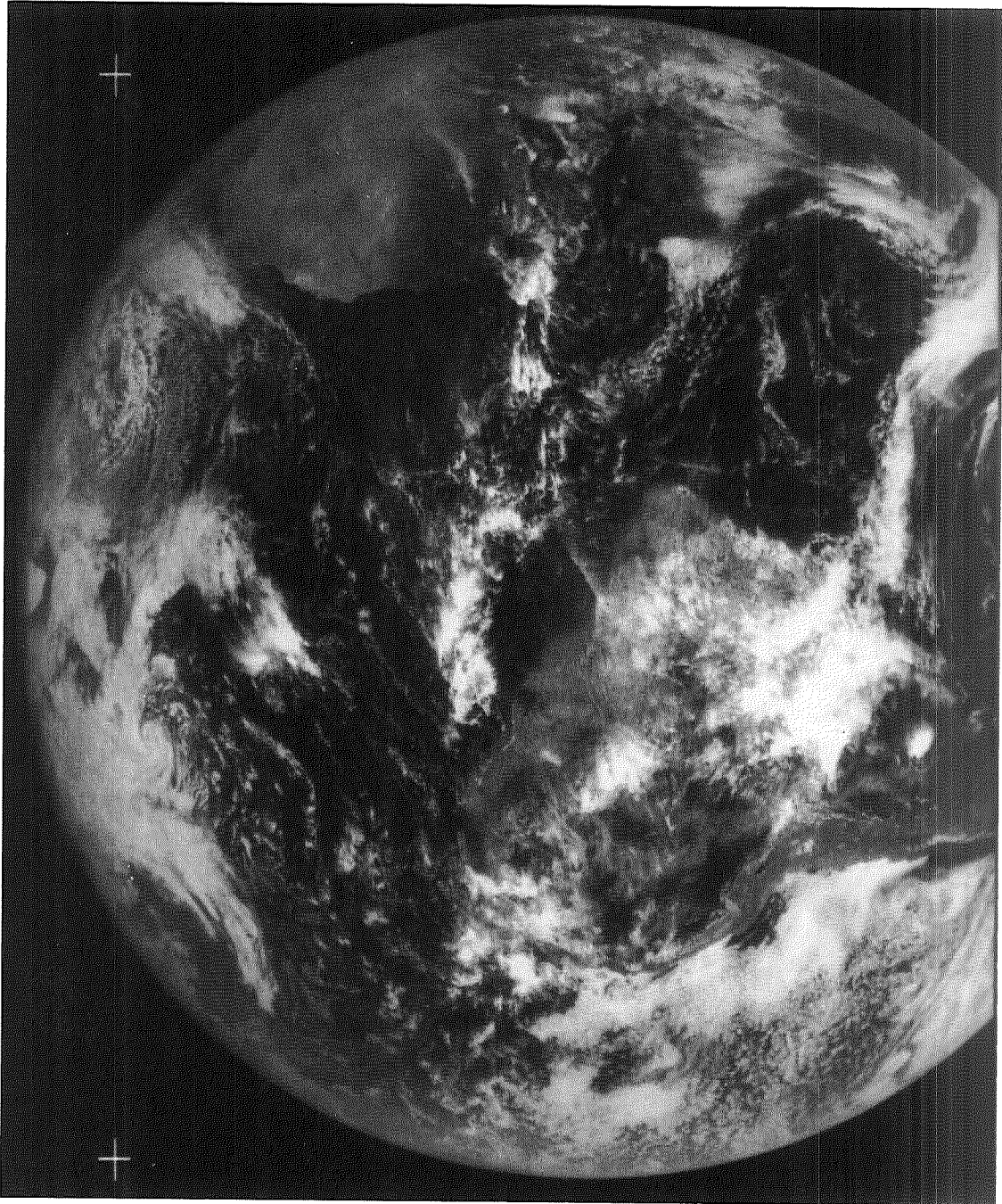
ATS-III MSSCC 11 NOV 69 15 03 40 Z 8

MSSCC

12 Nov 69

SSP 44.87W 0.19N

Seq	End Time	Remarks
1	11 59 26	5/6 Scan
2	12 25 08	5/6 Scan
3	12 50 51	5/6 Scan
4	13 16 30	5/6 Scan
5	13 42 13	5/6 Scan
6	14 07 56	5/6 Scan
7	14 33 38	5/6 Scan
8	14 59 21	5/6 Scan



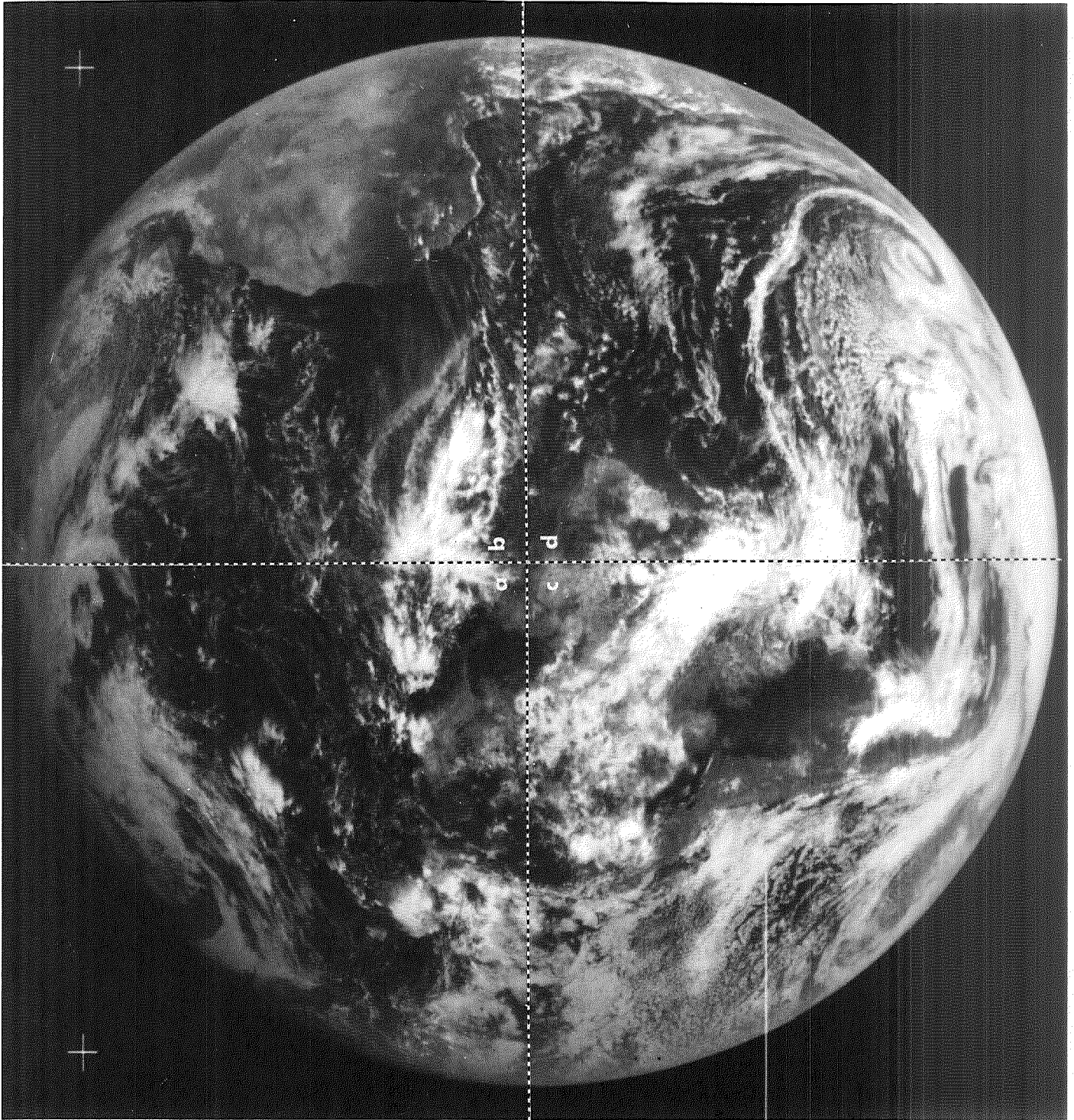
ATS-III MSSCC 12 NOV 69 14 59 21 Z 8

MSSCC

14 Nov 69

SSP 44.92W 0.17N

Seq	End Time	Remarks
1	11 51 16	Noise Sync Problem Picture Poor
2	12 16 59	
3	12 42 41	Dropout
4	13 08 21	
5	13 34 03	Noise Sync Problem Missing Data Picture Poor
6	13 59 44	Dropout
7	14 25 33	



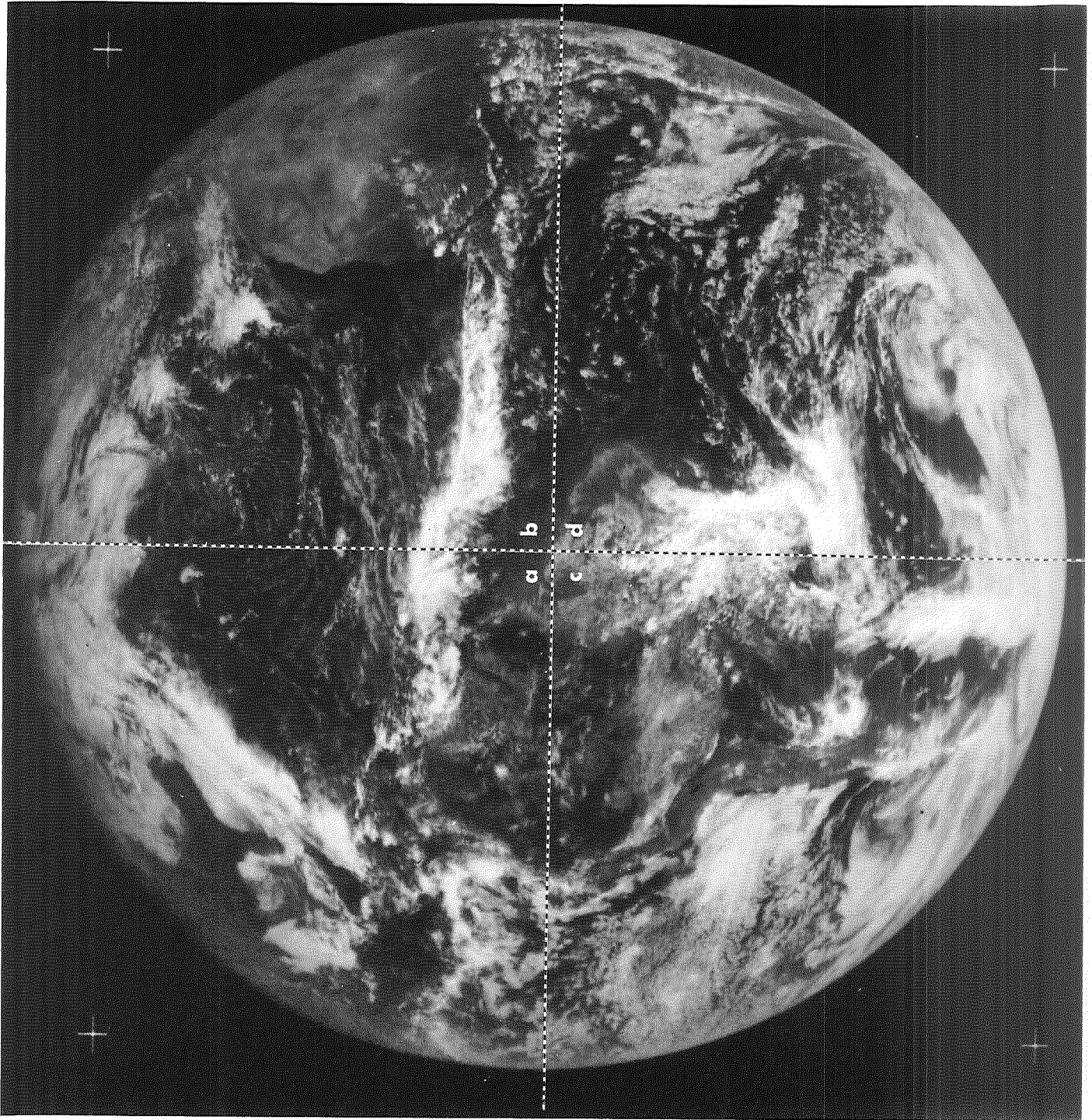
ATS-III MSSC 14 NOV 69 14 25 33 Z 7d

MSSCC

15 Nov 69

SSP 44.95W 0.17N

Seq	End Time	Remarks
1	11 58 42	No Data
2	12 24 24	Dropout Reproduced From Digital Tape
3	12 50 01	Reproduced From Digital Tape
4	13 15 43	Reproduced From Digital Tape
5	13 41 29	Reproduced From Digital Tape One Dropout
6	14 07 09	Reproduced From Digital Tape One Dropout
7	14 32 48	Reproduced From Digital Tape
8	14 58 31	Reproduced From Digital Tape



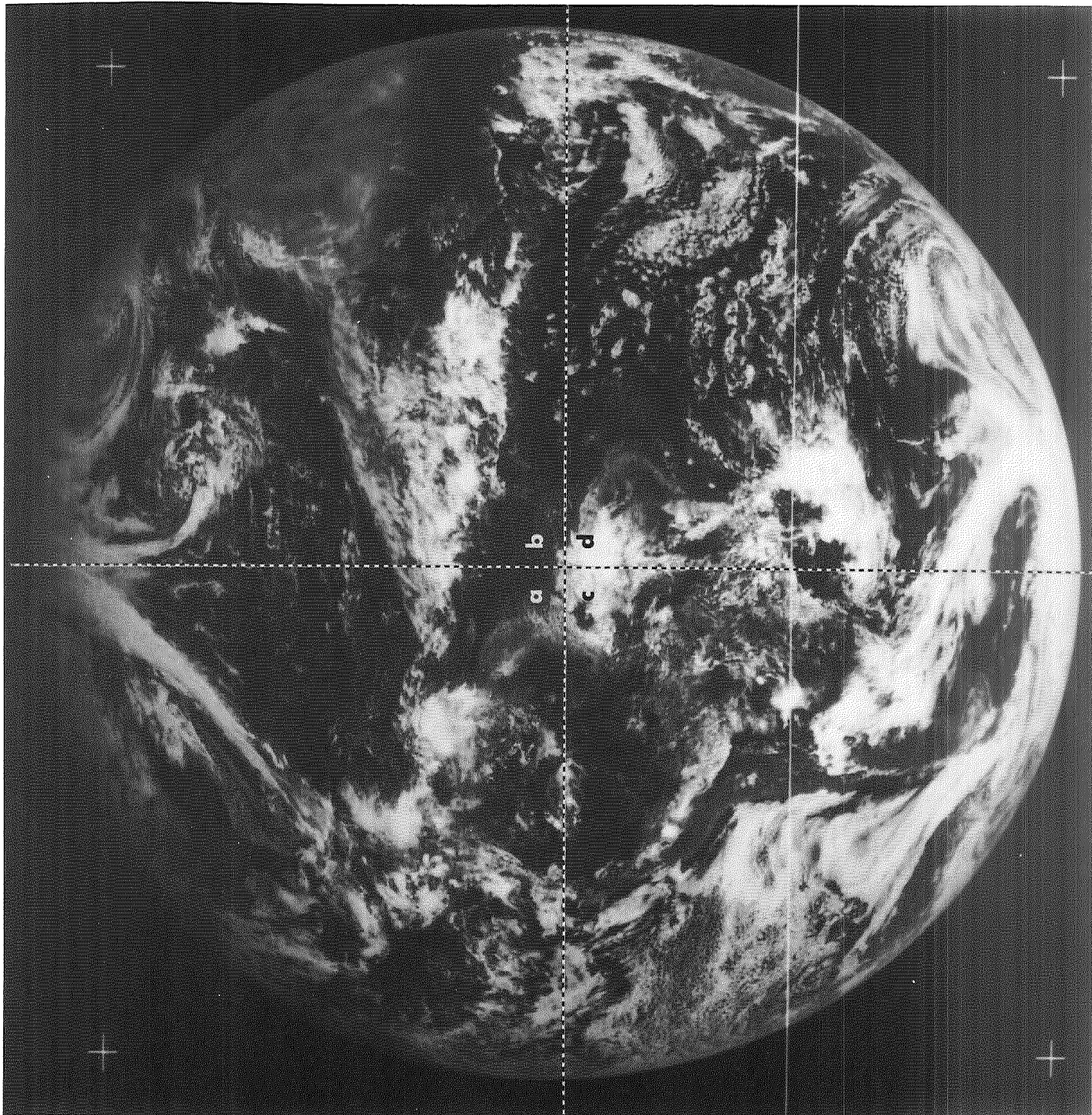
ATS-III MSSCC 15 NOV 69 14 58 31 Z 8d

MSSCC

16 Nov 69

SSP 44.98W 0.17N

Seq	End Time	Remarks
1	11 52 52	
2	12 18 32	Dropout
3	12 44 15	Dropout
4	13 09 57	Dropout
5	13 52 58	Dropout
6	14 18 38	
7	14 44 20	Dropout
8	15 15 29	Dropout



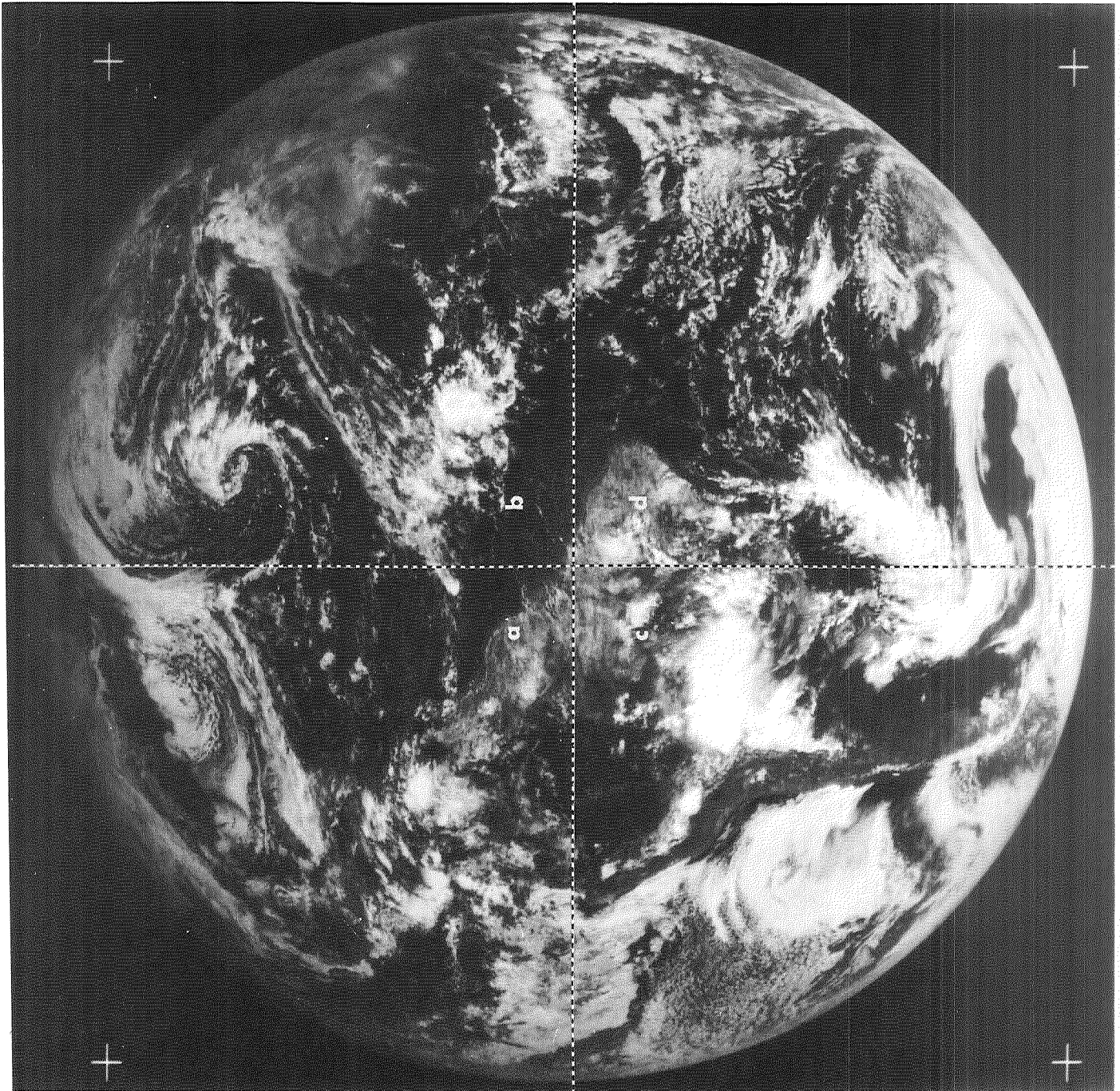
ATS-III MSSCC 16 NOV 69 14 44 20 Z 7d

MSSCC

17 Nov 69

SSP 45.01W 0.17N

Seq	End Time	Remarks
1	11 52 29	Dropouts Little Noise
2	12 18 08	Dropouts
3	12 43 51	Dropouts
4	13 09 34	No Data
5	13 52 28	
6	14 18 11	
7	14 43 53	
8	15 09 36	Dropout
9	21 25 19	Dropout



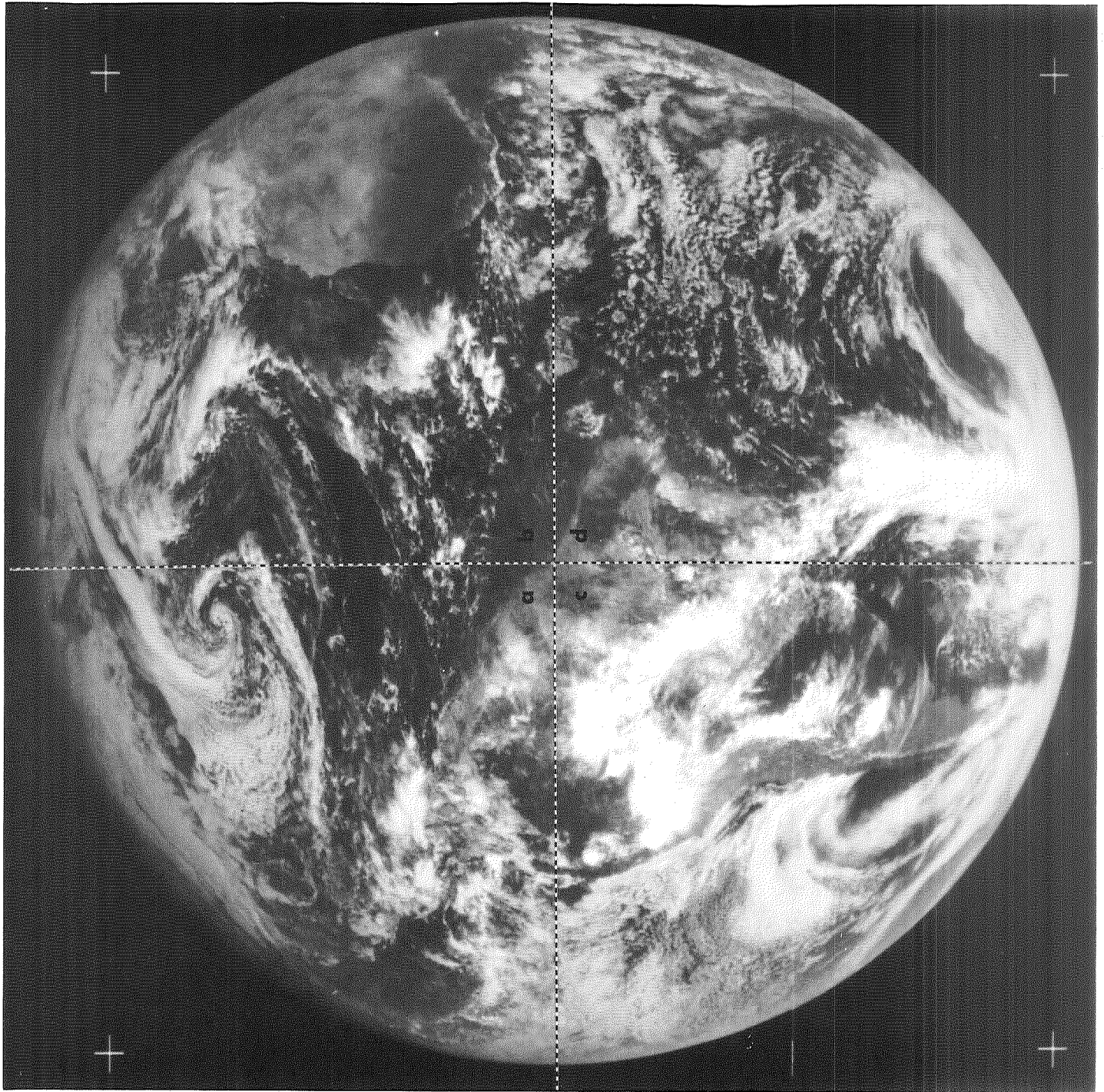
ATS-III MSSCC 17 NOV 69 14 43 53 Z 7d

MSSCC

18 Nov 69

SSP 45.05W 0.17N

Seq	End Time	Remarks
1	11 55 13	Dropout Slight Noise
2	12 20 53	
3	12 46 35	
4	13 12 18	
5	13 38 00	50 Line Dropout
6	14 03 45	
7	14 29 22	
8	14 55 05	



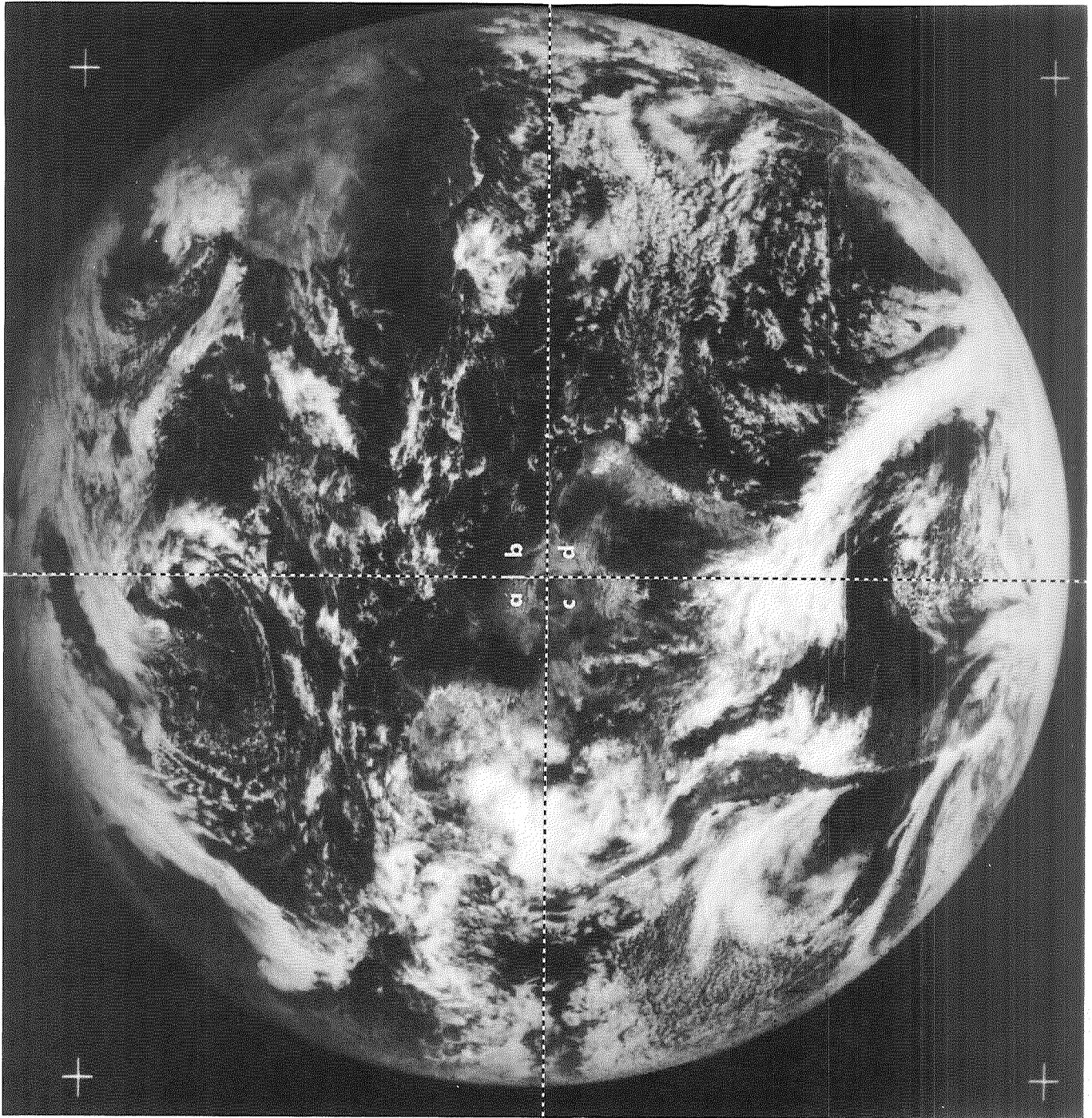
ATS-III MSSCC 18 NOV 69 14 29 22 Z 7d

MSSCC

19 Nov 69

SSP 45.09W 0.16N

Seq	End Time	Remarks
1	12 00 24	
2	12 26 06	
3	12 51 46	
4	13 17 28	
5	13 43 11	
6	14 08 53	
7	14 34 36	
8	15 00 15	



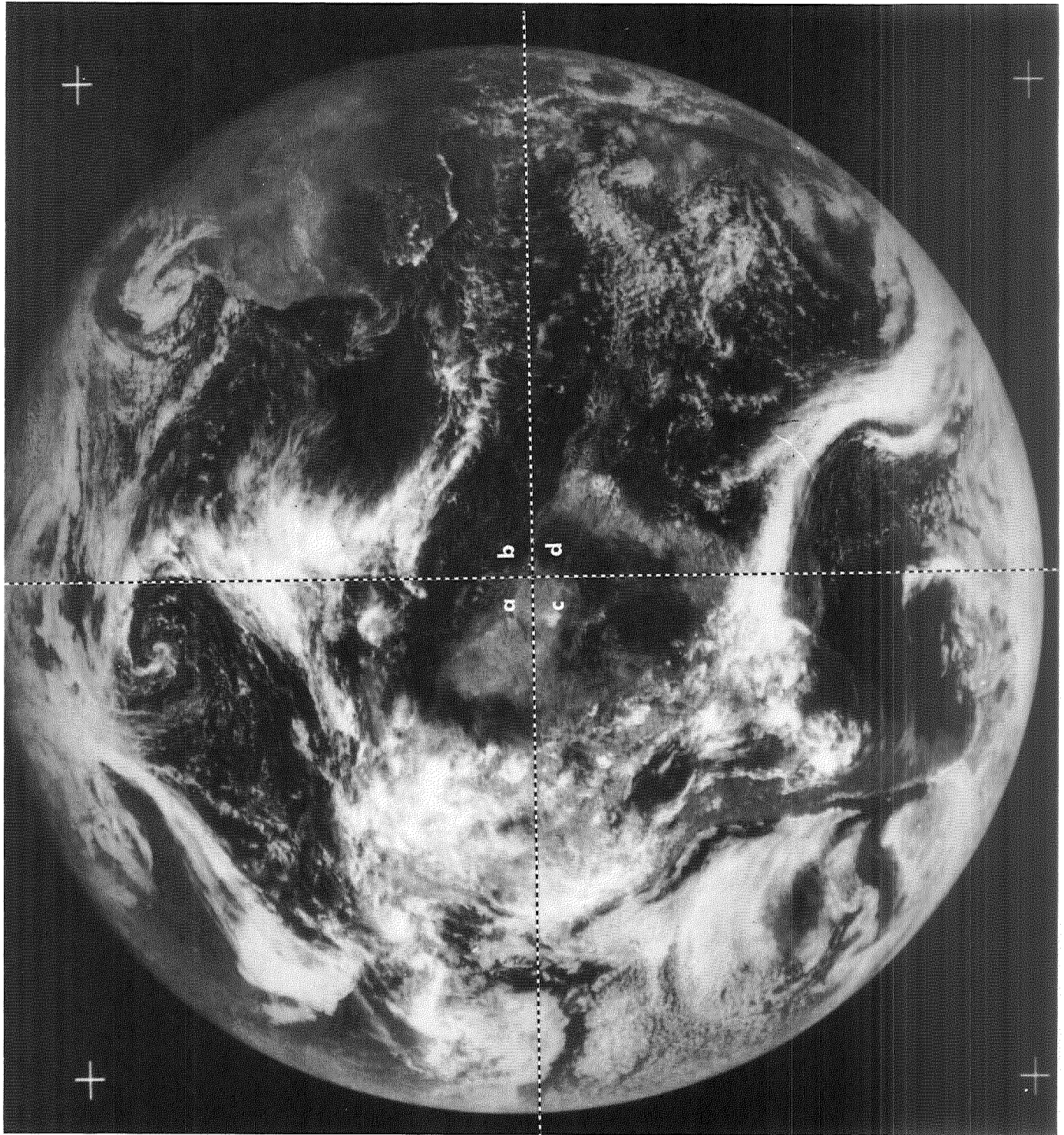
ATS-III MSSCC 19 NOV 69 15 00 15 Z 8d

MSSCC

20 Nov 69

SSP 45.12W 0.16N

Seq	End Time	Remarks
1	12 14 14	
2	12 44 08	
3	13 09 48	
4	13 35 30	
5	14 01 13	
6	14 26 55	
7	14 52 38	
8	15 18 21	



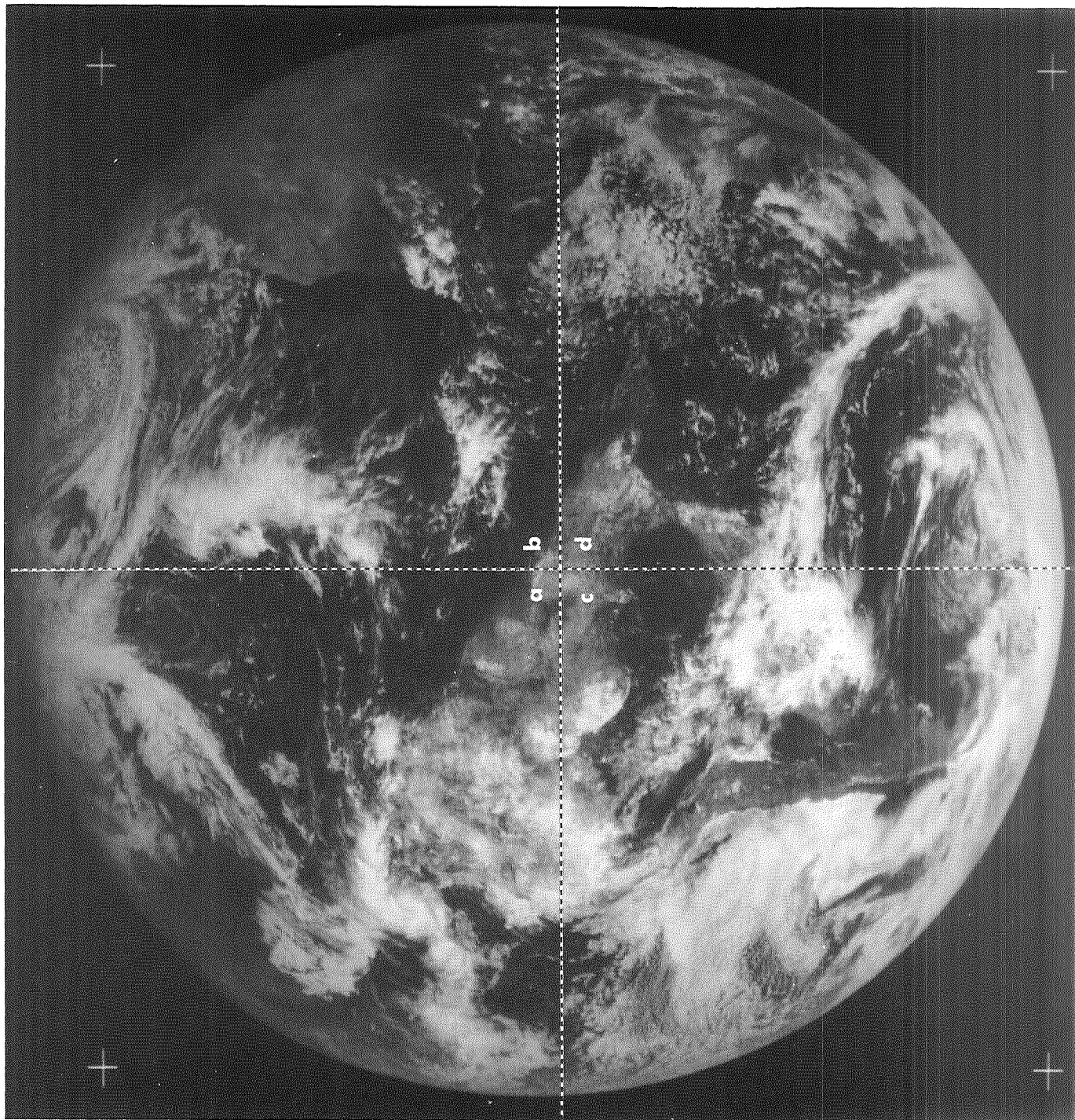
ATS-III MSSCC 20 NOV 69 15 18 21 Z 8

MSSCC

21 Nov 69

SSP 45.16W 0.16N

Seq	End Time	Remarks
1	12 12 15	
2	12 33 07	
3	12 56 00	Noise
4	13 22 34	
5	13 48 13	
6	14 13 56	
7	14 39 38	
8	15 05 21	
9	15 31 03	



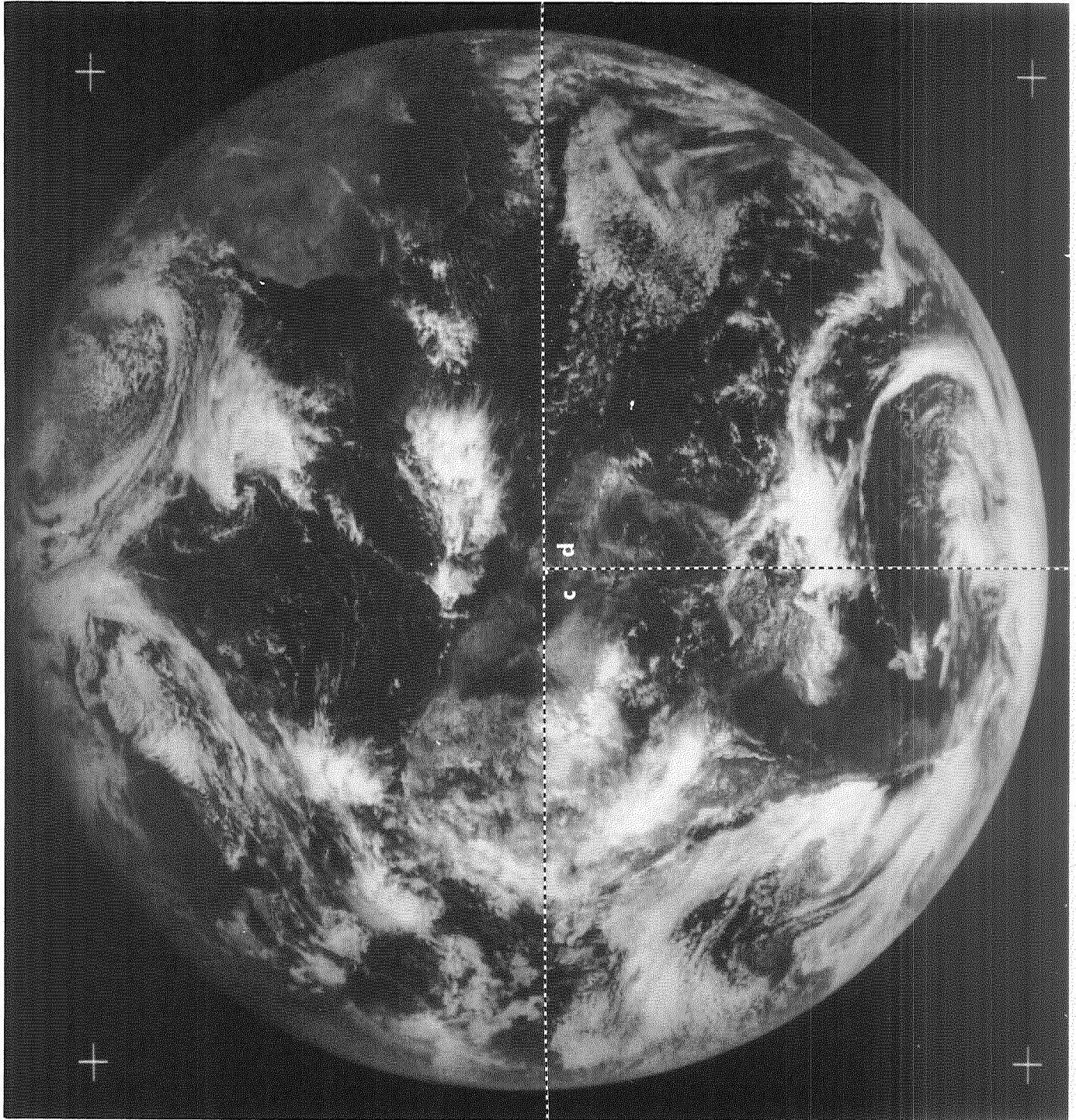
ATS-III MSSCC 21 NOV 69 15 05 21 Z 8

MSSCC

22 Nov 69

SSP 45.20W 0.15N

Seq	End Time	Remarks
1	11 52 38	
2	12 18 21	
3	12 44 00	
4	13 09 43	
5	13 35 25	
6	14 01 08	
7	14 26 50	
8	14 52 30	



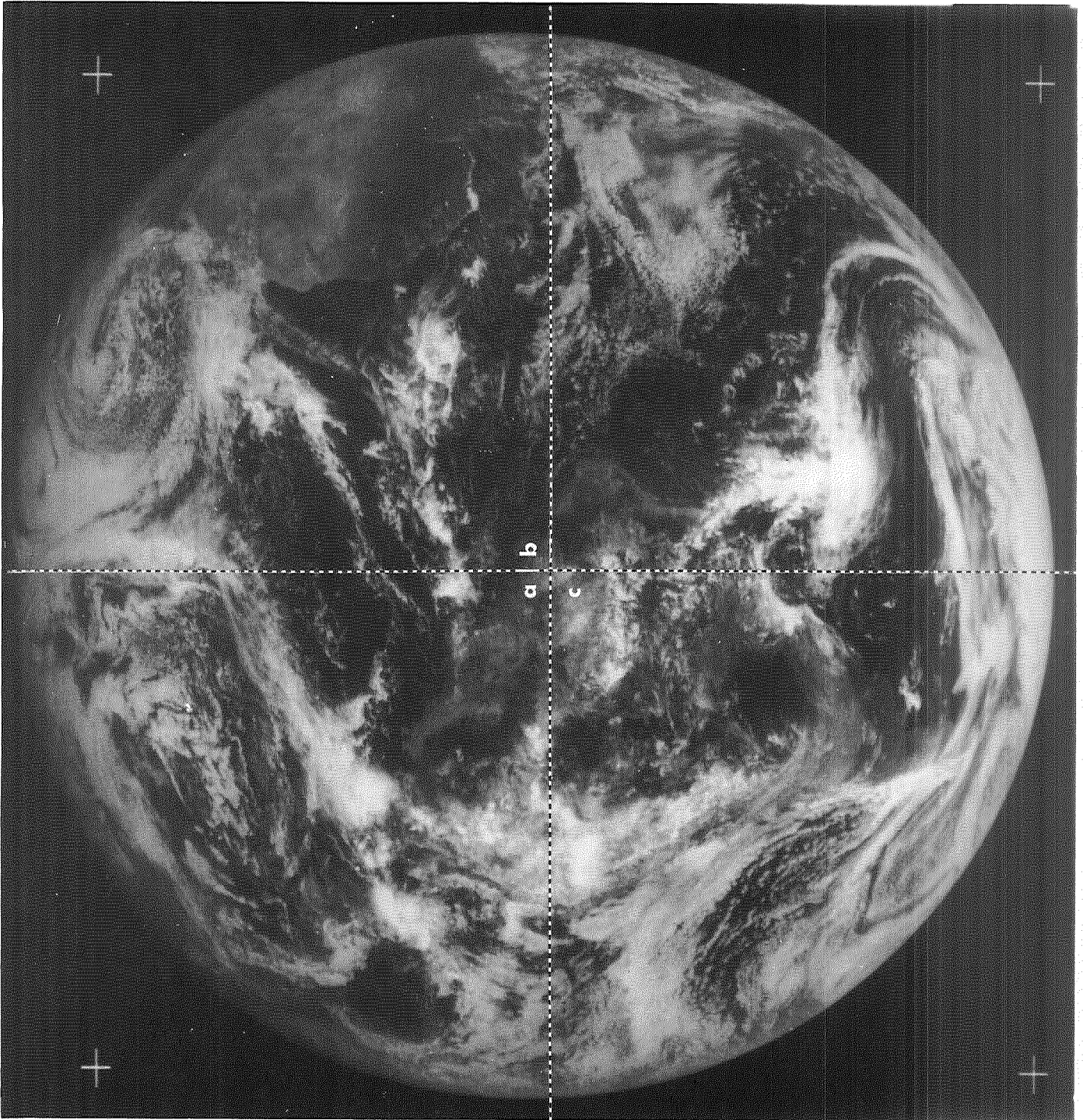
ATS-III MSSCC 22 NOV 69 14 52 30 Z 8

MSSCC

23 Nov 69

SSP 45.24W 0.15N

Seq	End Time	Remarks
1	11 50 08	
2	12 15 47	
3	12 41 30	
4	13 07 12	
5	13 32 54	
6	13 58 38	
7	14 24 17	
8	14 50 00	



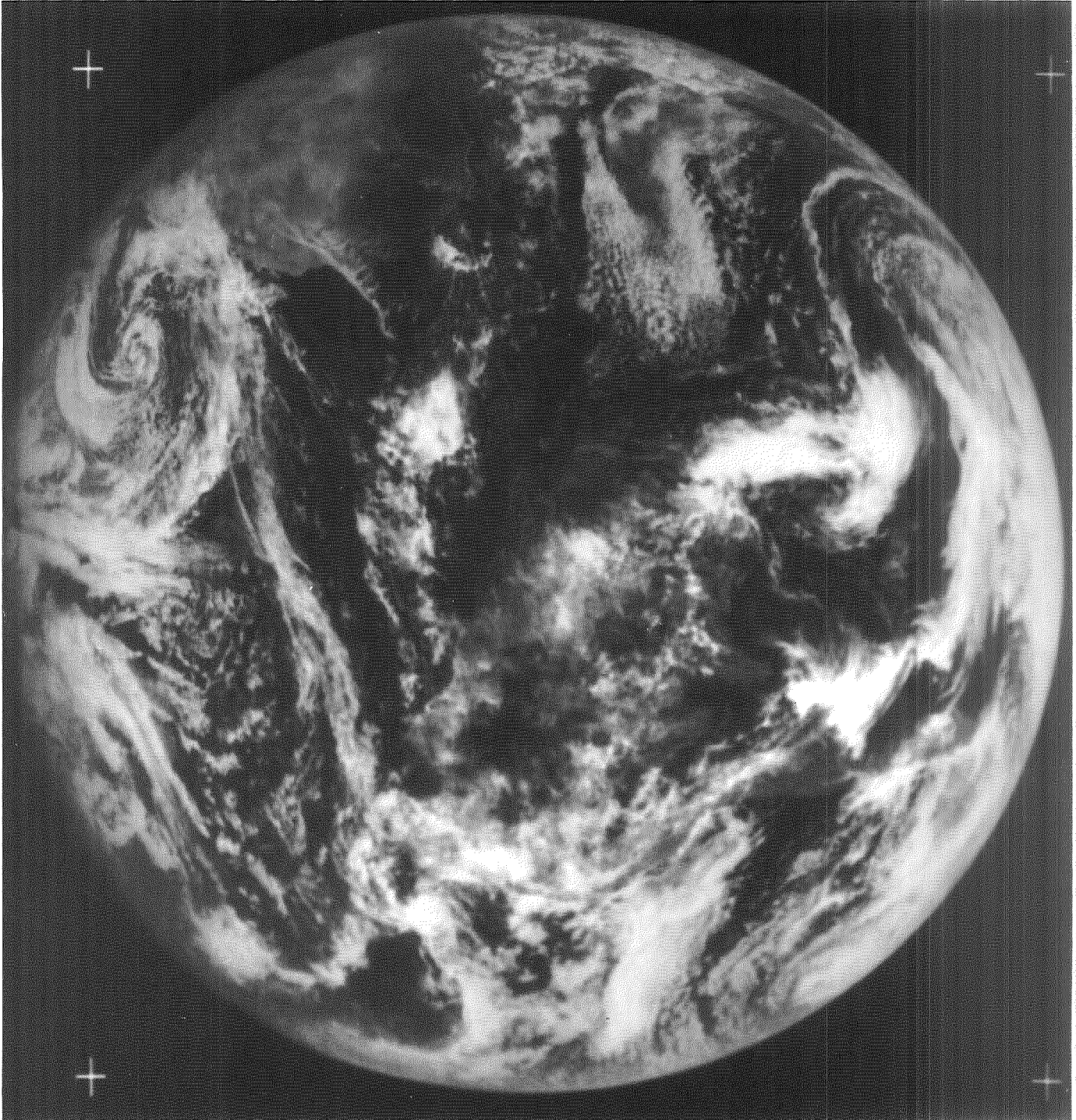
ATS-III MSSCC 23 NOV 69 14 50 00 Z 8

MSSCC

24 Nov 69

SSP 45.28W 0.14N

Seq	End Time	Remarks
1	11 55 51	1/2 Scan
2	12 22 13	
3	12 47 56	
4	13 13 38	
5	13 42 54	
6	14 08 55	
7	14 34 13	
8	14 59 53	
9	15 25 36	Voltage Change Approximately Line 1500



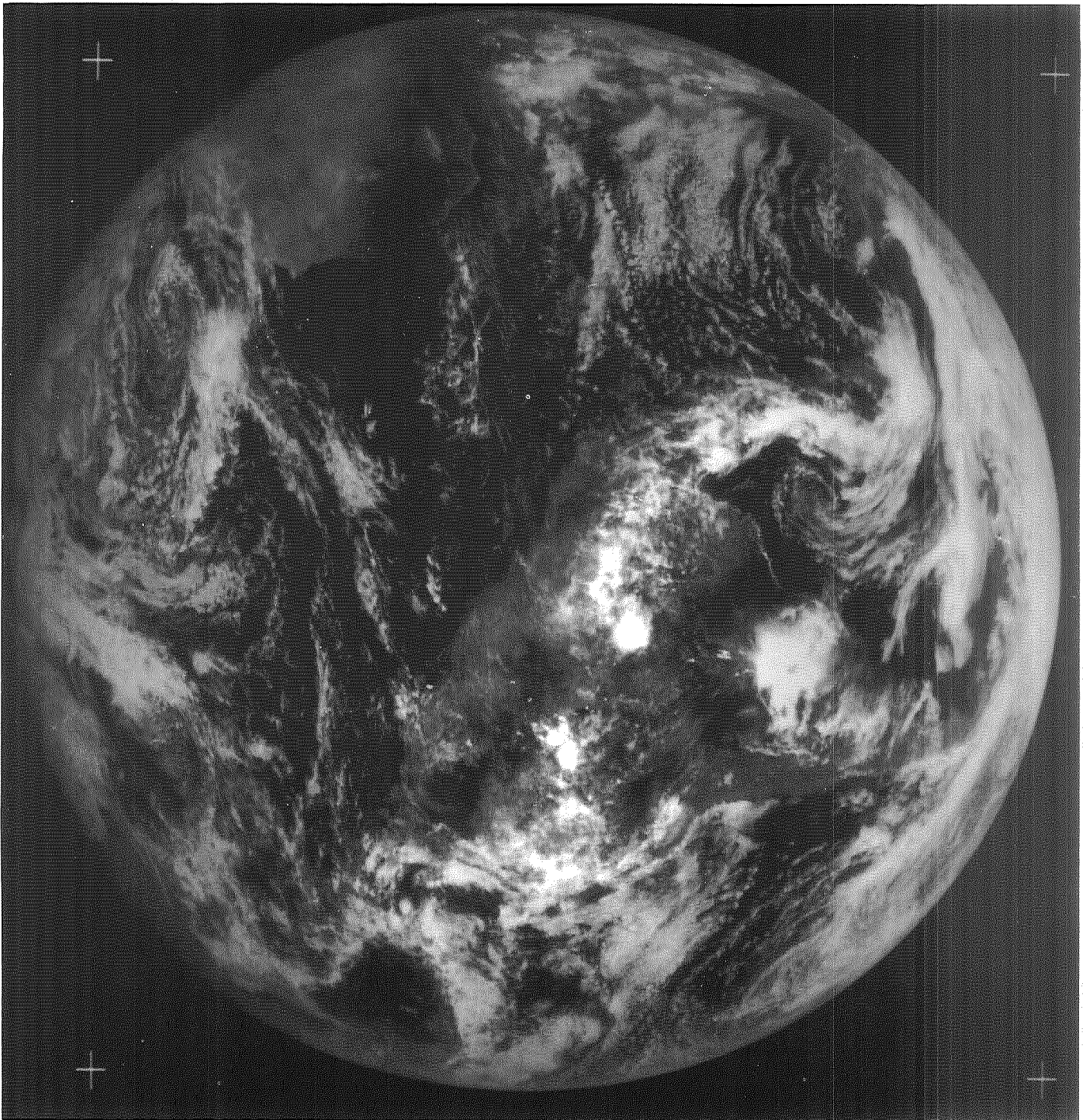
ATS-III MSSCC 24 NOV 69 14 59 53 Z 8

MSSCC

25 Nov 69

SSP 45.32W 0.14N

Seq	End Time	Remarks
1	11 40 21	
2	13 23 08	Minor Dropouts
3	13 53 47	
4	14 19 30	
5	14 45 09	
6	15 10 52	
7	15 36 34	
8	16 06 32	
9	16 32 14	
10	21 38 53	



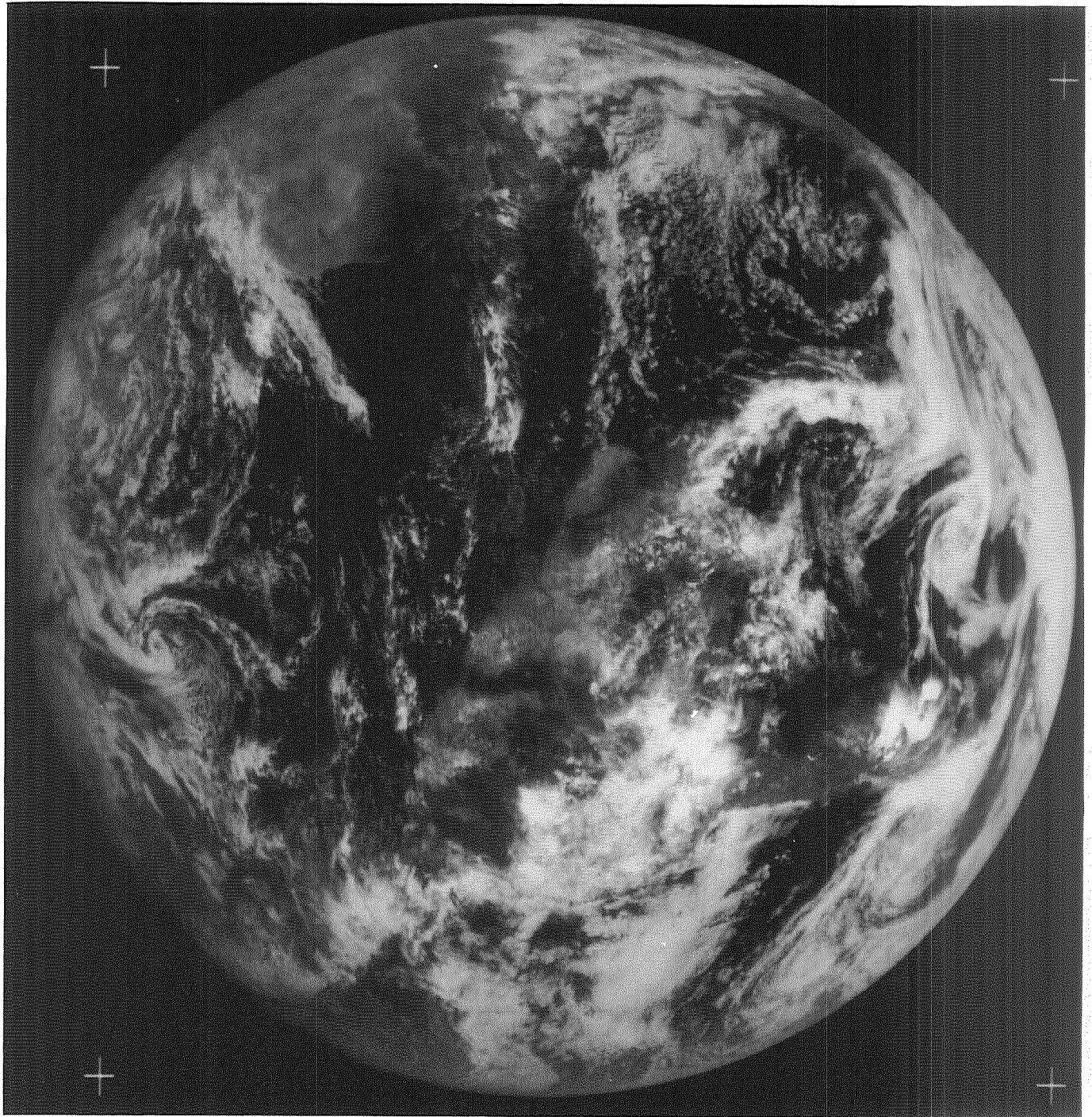
ATS-III MSSCC 25 NOV 69 15 10 52 Z 6

MSSCC

26 Nov 69

SSP 45.36W 0.14N

Seq	End Time	Remarks
1	11 41 11	
2	12 06 49	
3	12 32 31	
4	12 58 14	
5	13 23 53	
6	13 49 36	
7	14 15 18	
8	14 41 01	



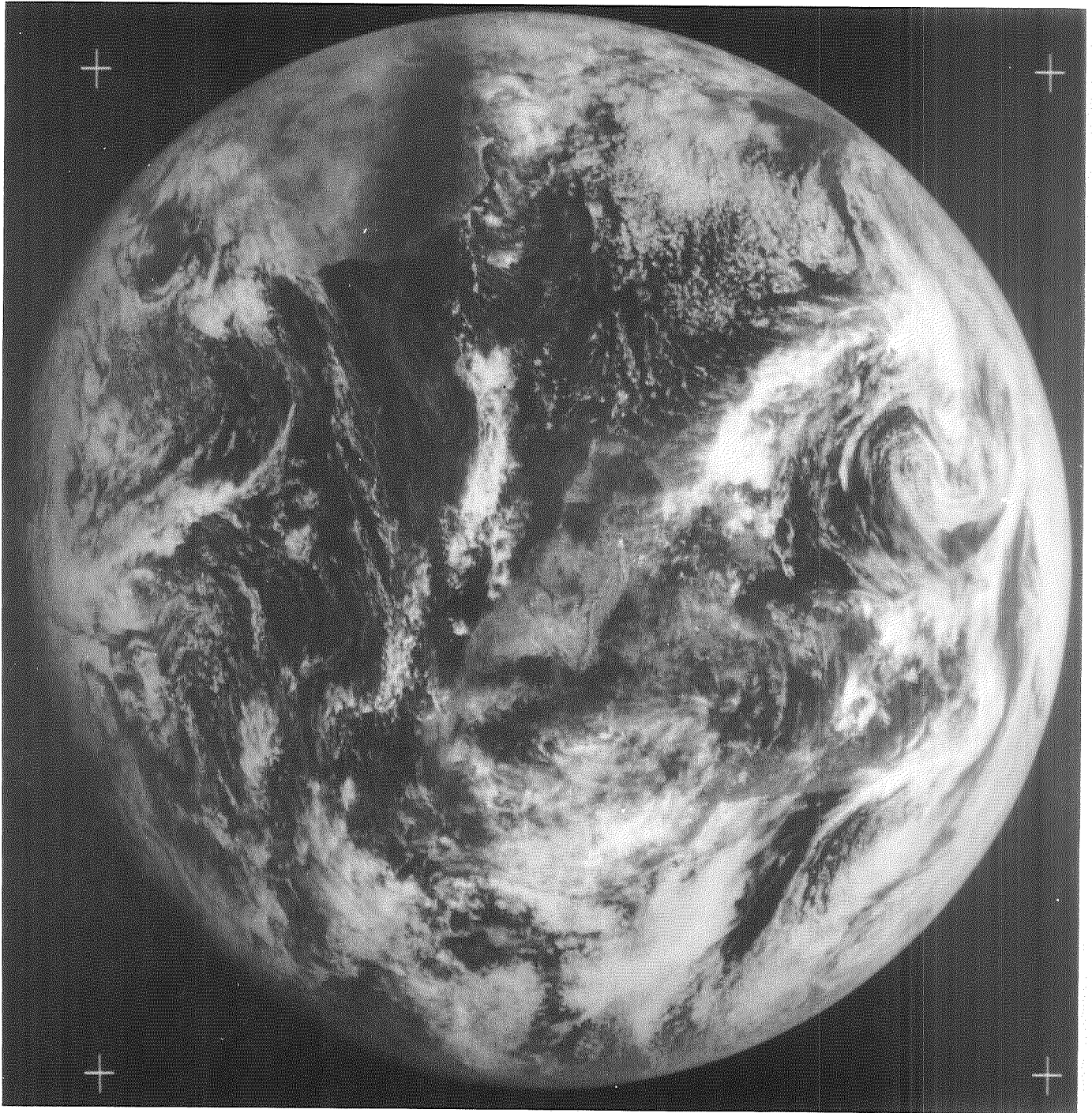
ATS-III MSSCC 26 NOV 69 14 41 01 Z 8

MSSCC

27 Nov 69

SSP 45.40W 0.13N

Seq	End Time	Remarks
1	11 48 59	
2	12 14 39	
3	12 40 21	
4	13 06 04	
5	13 31 46	
6	13 57 26	
7	14 23 08	
8	14 48 51	



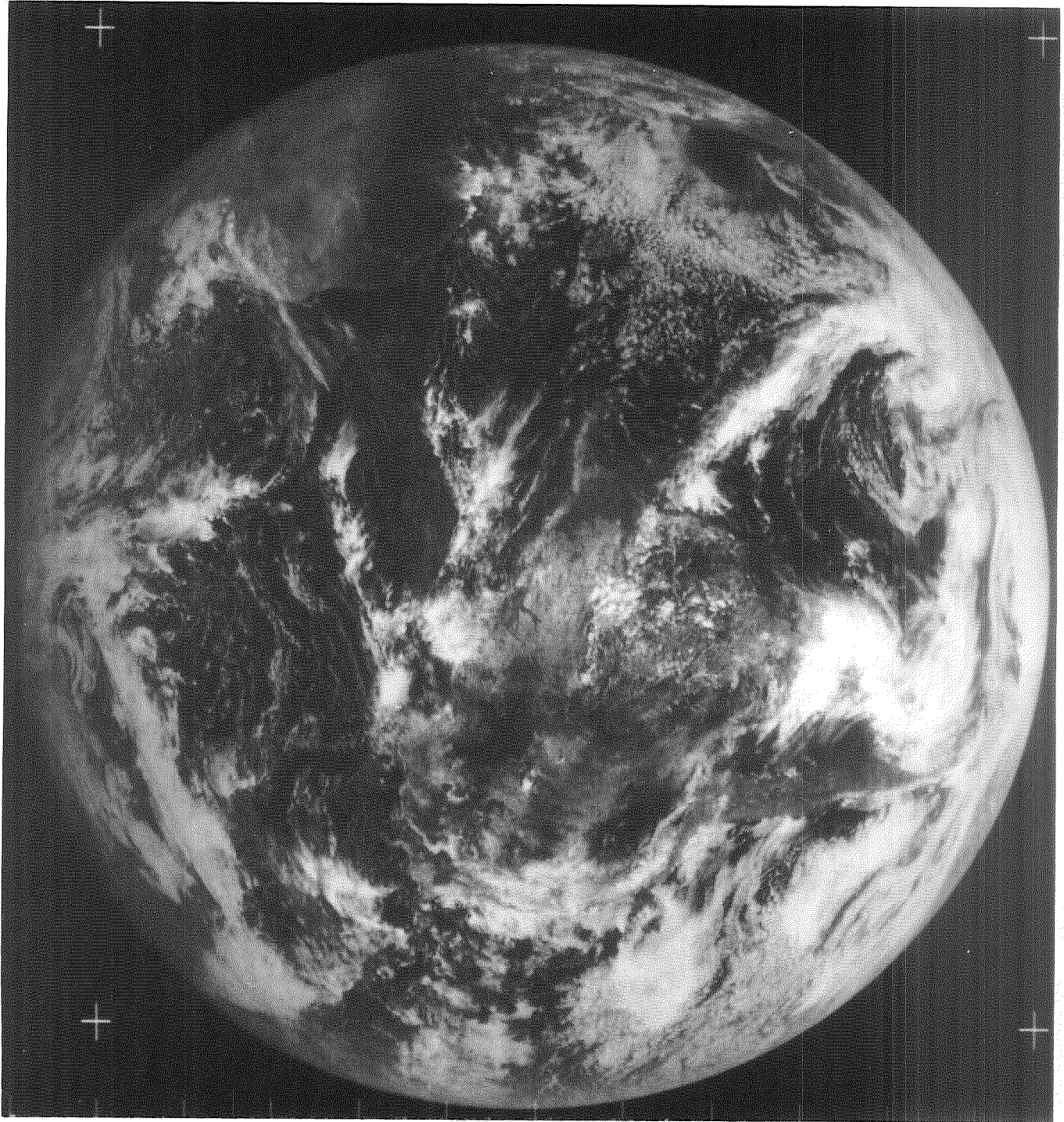
ATS-III MSSCC 27 NOV 69 14 23 08 Z 7

MSSCC

28 Nov 69

SSP 45.45W 0.13N

Seq	End Time	Remarks
1	12 08 58	
2	12 34 40	
3	13 00 20	
4	13 26 02	
5	13 51 45	
6	14 17 28	
7	14 43 10	
8	15 08 50	



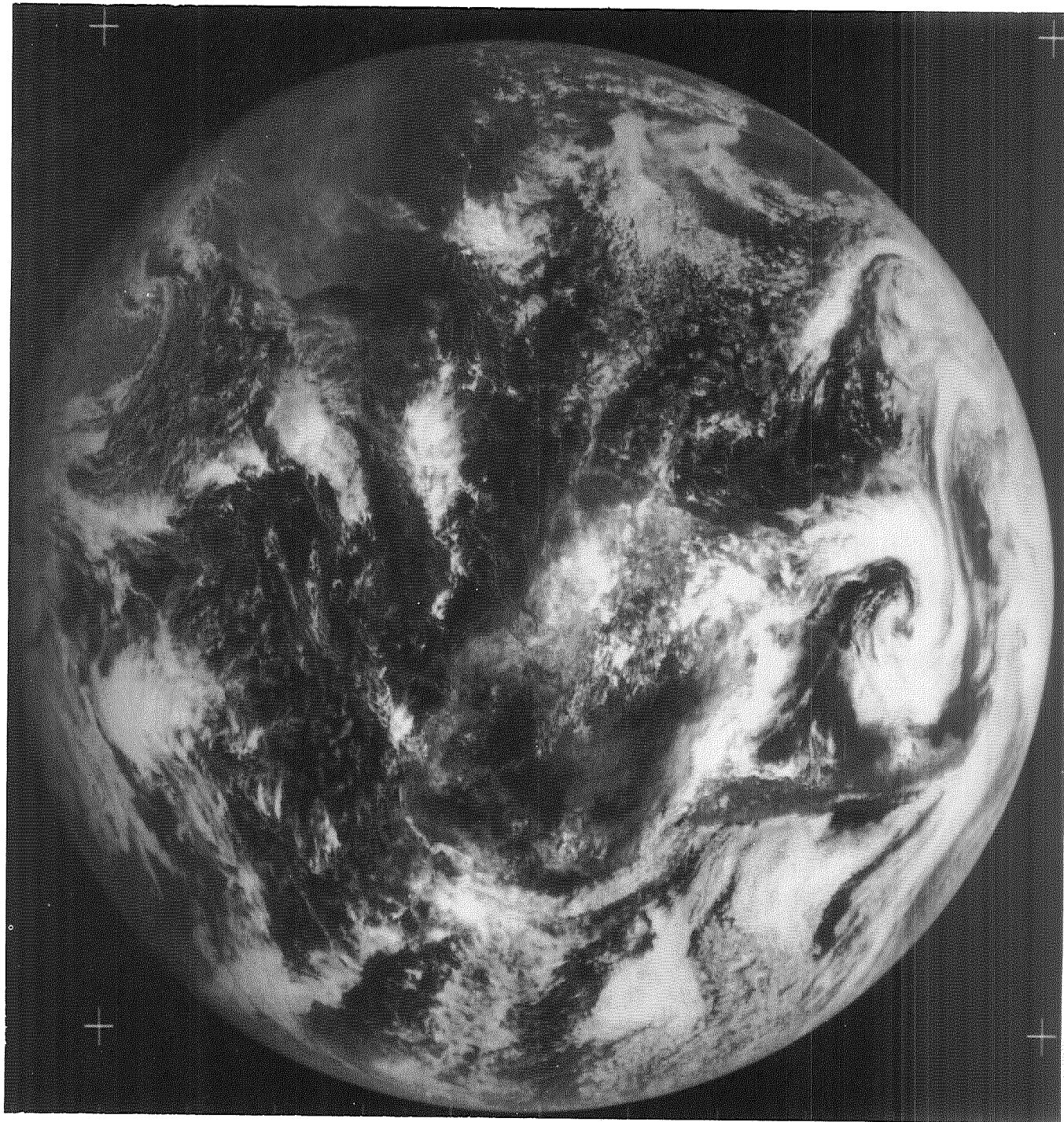
ATS-III MSSCC 28 NOV 69 15 08 50 Z 8

MSSCC

29 Nov 69

SSP 45.49W 0.13N

Seq	End Time	Remarks
1	13 59 11	
2	14 24 59	
3	14 50 42	
4	15 16 24	
5	15 42 07	
6	16 07 50	
7	16 33 32	
8	16 59 15	



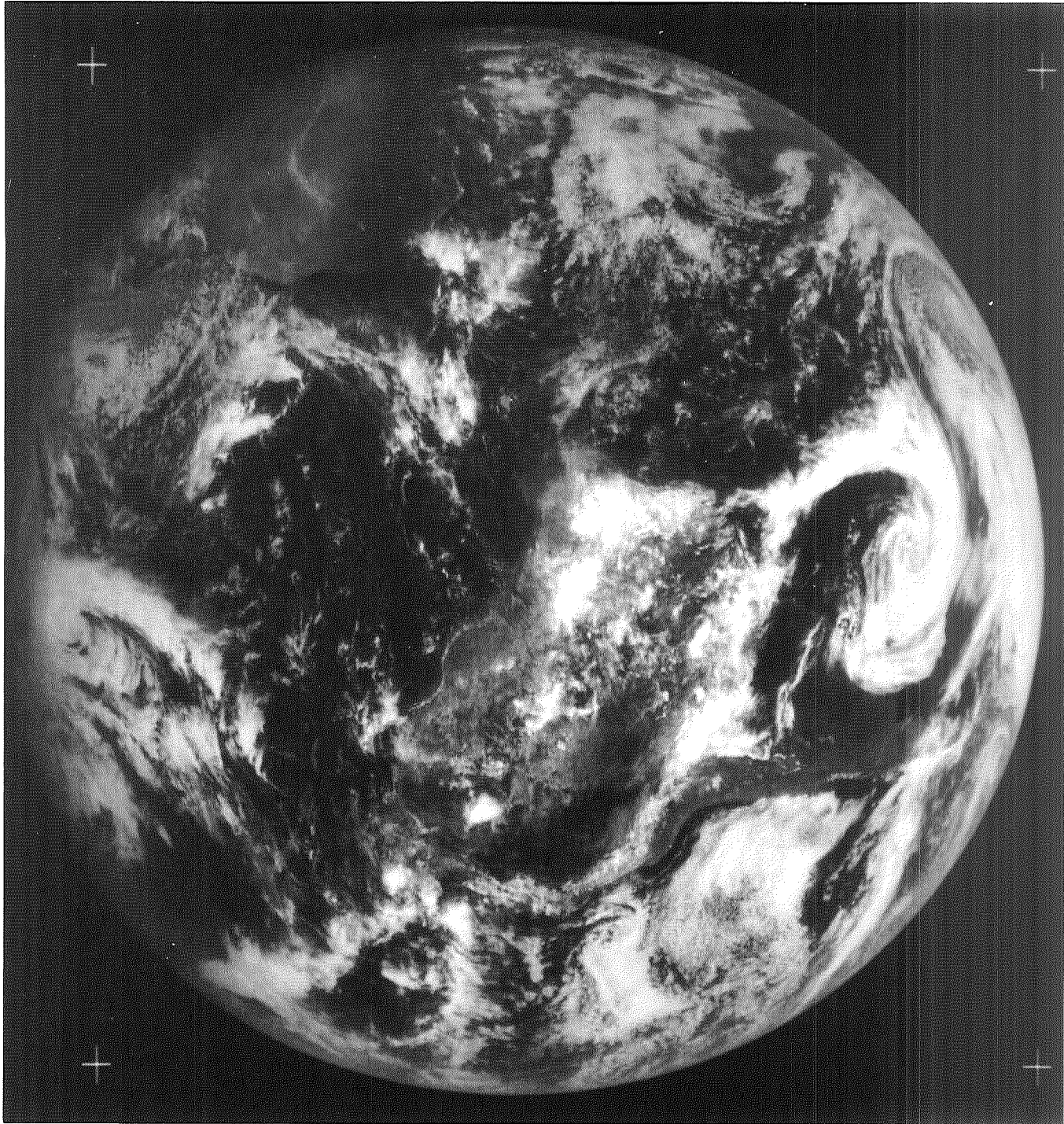
ATS-III MSSCC 29 NOV 69 15 16 24 Z 4

MSSCC

30 Nov 69

SSP 45.54W 0.13N

Seq	End Time	Remarks
1	11 39 43	
2	13 22 34	
3	13 48 36	
4	14 16 46	
5	14 42 15	
6	15 07 55	
7	15 33 34	
8	15 59 17	
9	16 12 16	
10	21 39 00	



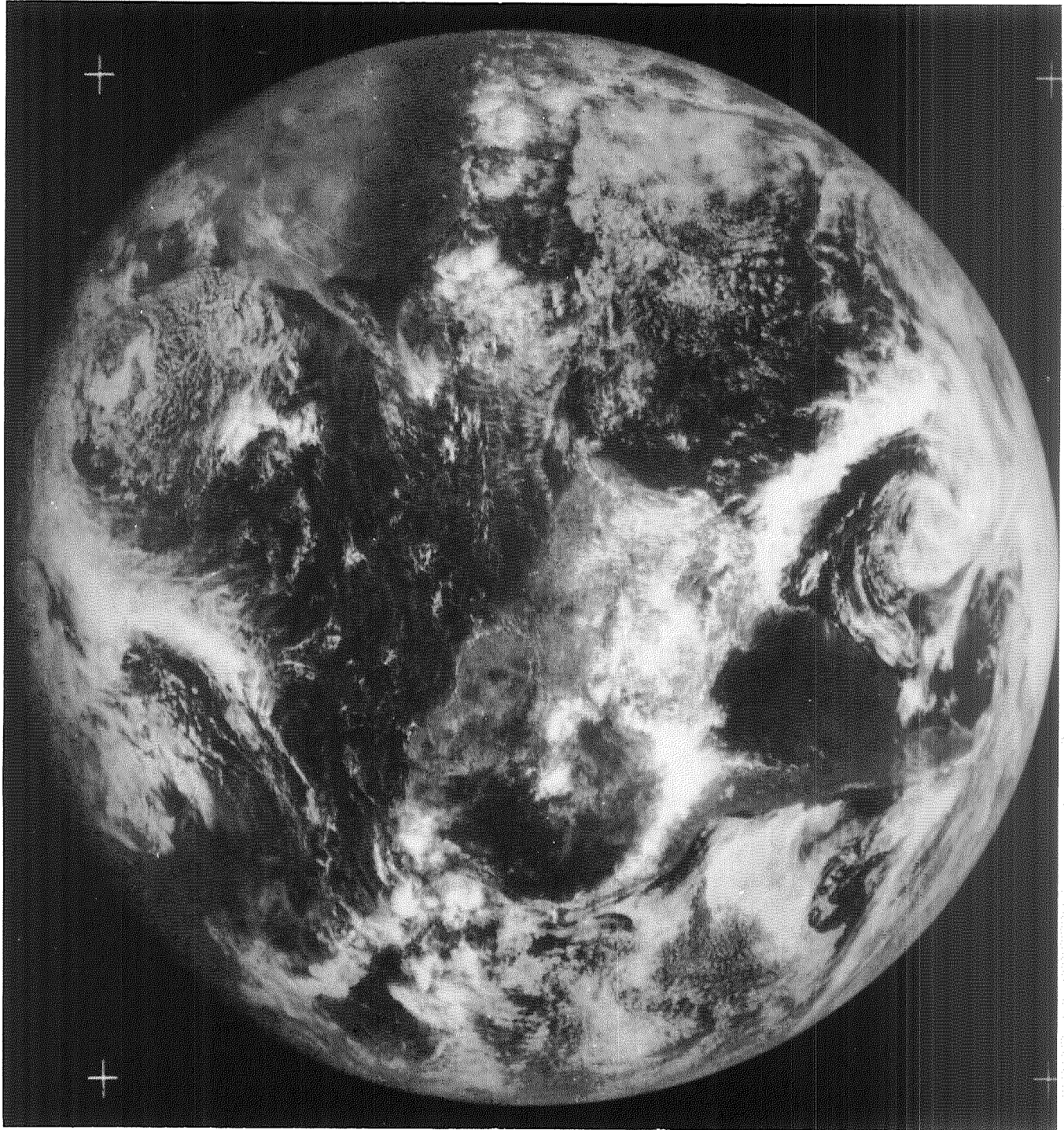
ATS-III MSSCC 30 NOV 69 15 33 34 Z 7

MSSCC

1 Dec 69

SSP 45.60W 0.13N

Seq	End Time	Remarks
1	11 38 59	
2	14 07 18	
3	14 33 01	
4	14 58 41	
5	15 24 23	
6	15 50 05	
7	16 15 48	
8	16 41 30	
9	21 34 49	



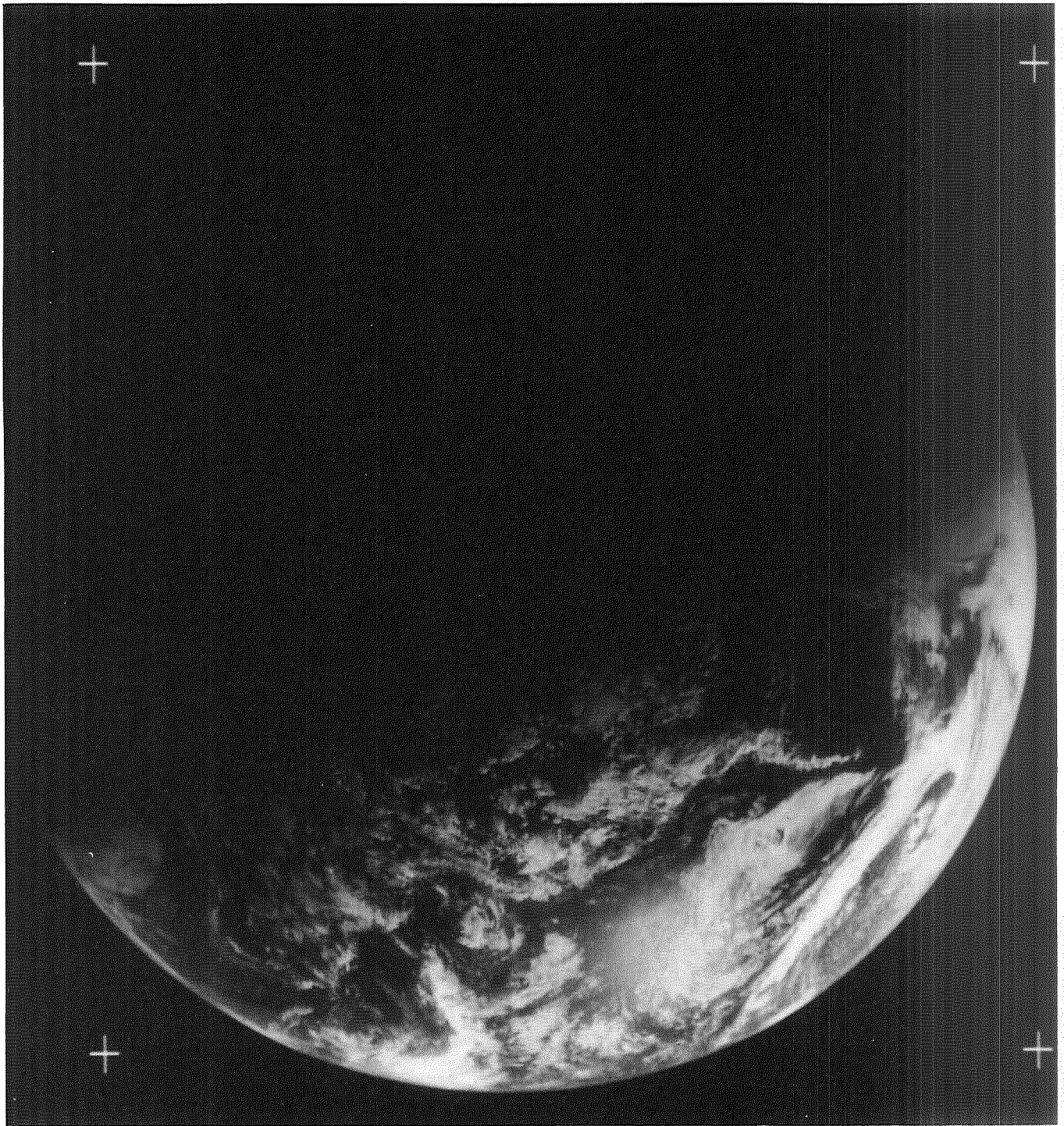
ATS-III MSSCC 1 DEC 69 14 58 41 Z 4

MSSCC

14 Dec 69

SSP 46.38W 0.07N

Seq	End Time	Remarks
1	21 35 32	Sun Glint



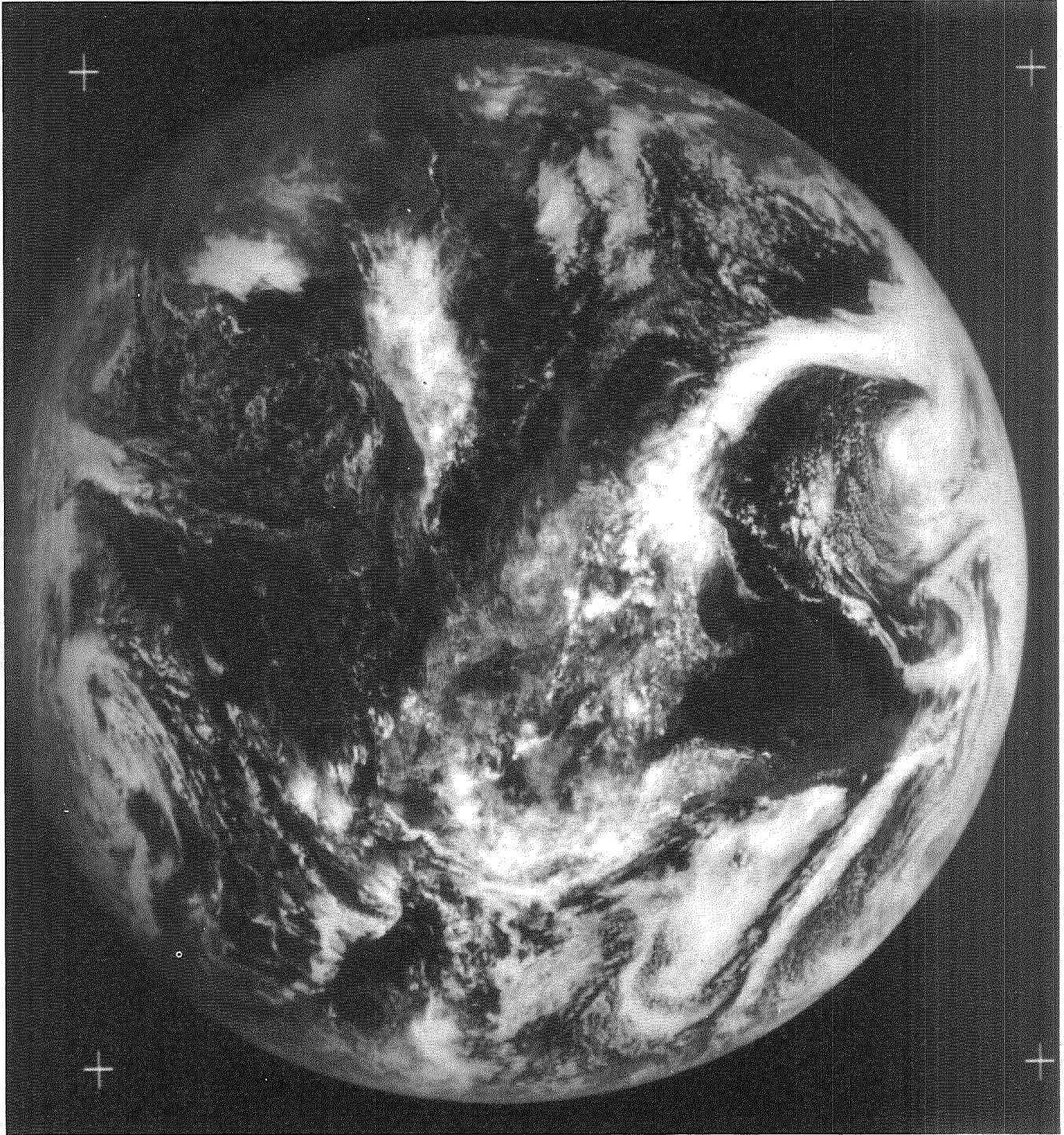
ATS-III MSSCC 14 DEC 69 21 35 32 Z 1

MSSCC

15 Dec 69

SSP 46.45W 0.06N

Seq	End Time	Remarks
1	15 04 22	
2	15 30 01	
3	15 55 45	Dropout
4	16 21 27	
5	16 47 09	
6	21 43 09	Sun Glint



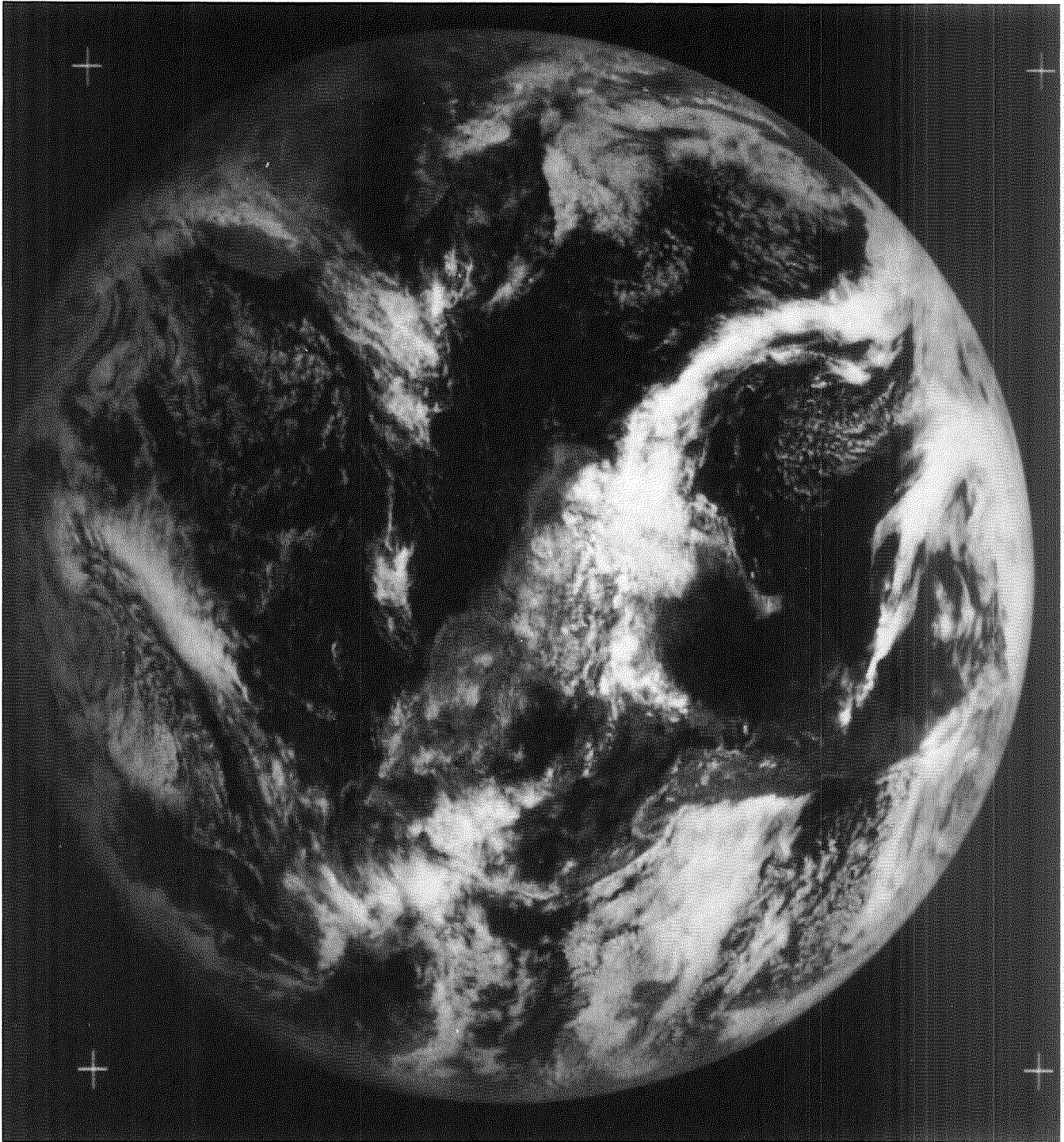
ATS-III MSSCC 15 DEC 69 15 30 01 Z 2

MSSCC

17 Dec 69

SSP 46.60W 0.05N

Seq	End Time	Remarks
1	15 13 48	
2	15 39 30	
3	16 05 13	
4	16 21 55	
5	17 05 41	Noise
6	17 31 23	
7	17 57 03	
8	21 30 08	



ATS-III MSSCC 17 DEC 69 15 13 48 Z 1

MSSCC

20 Dec 69

SSP 36.82W 0.03N

Seq	End Time	Remarks
1	14 46 23	Few Noise Bands
2	15 12 05	
3	15 37 48	
4	16 03 30	
5	16 29 10	
6	16 54 52	
7	17 20 35	
8	21 21 19	



ATS-III MSSCC 20 DEC 69 15 37 48 Z 3

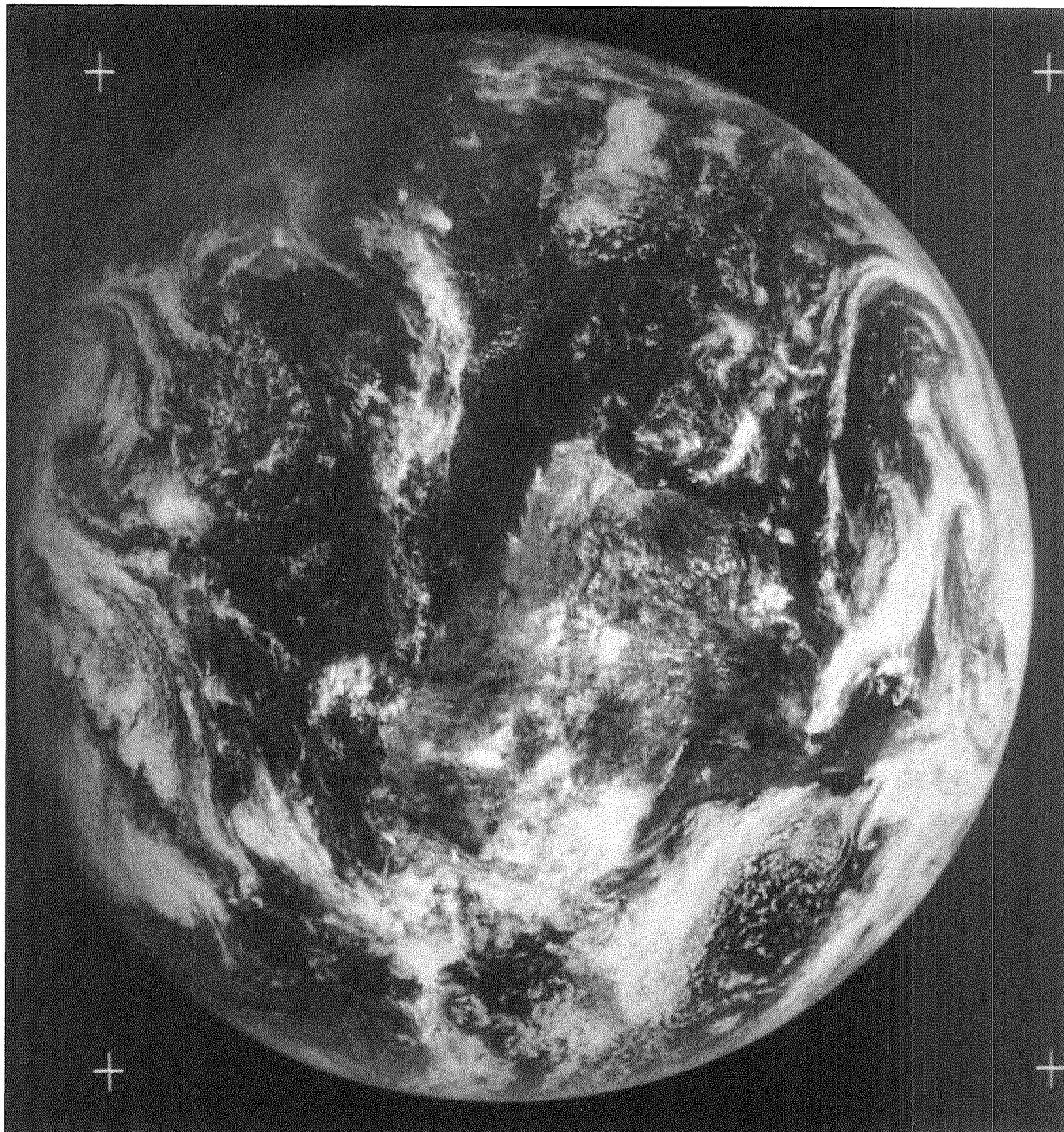
MSSCC

21 Dec 69

SSP 46.89W 0.02N

Seq	End Time	Remarks
1	11 37 22	
2	14 21 28	
3	14 47 10	
4	15 12 53	
5	15 38 33	
6	16 04 16	
7	16 29 58	
8	16 55 40	
9	21 34 55	

Last 50 Lines Not Recorded



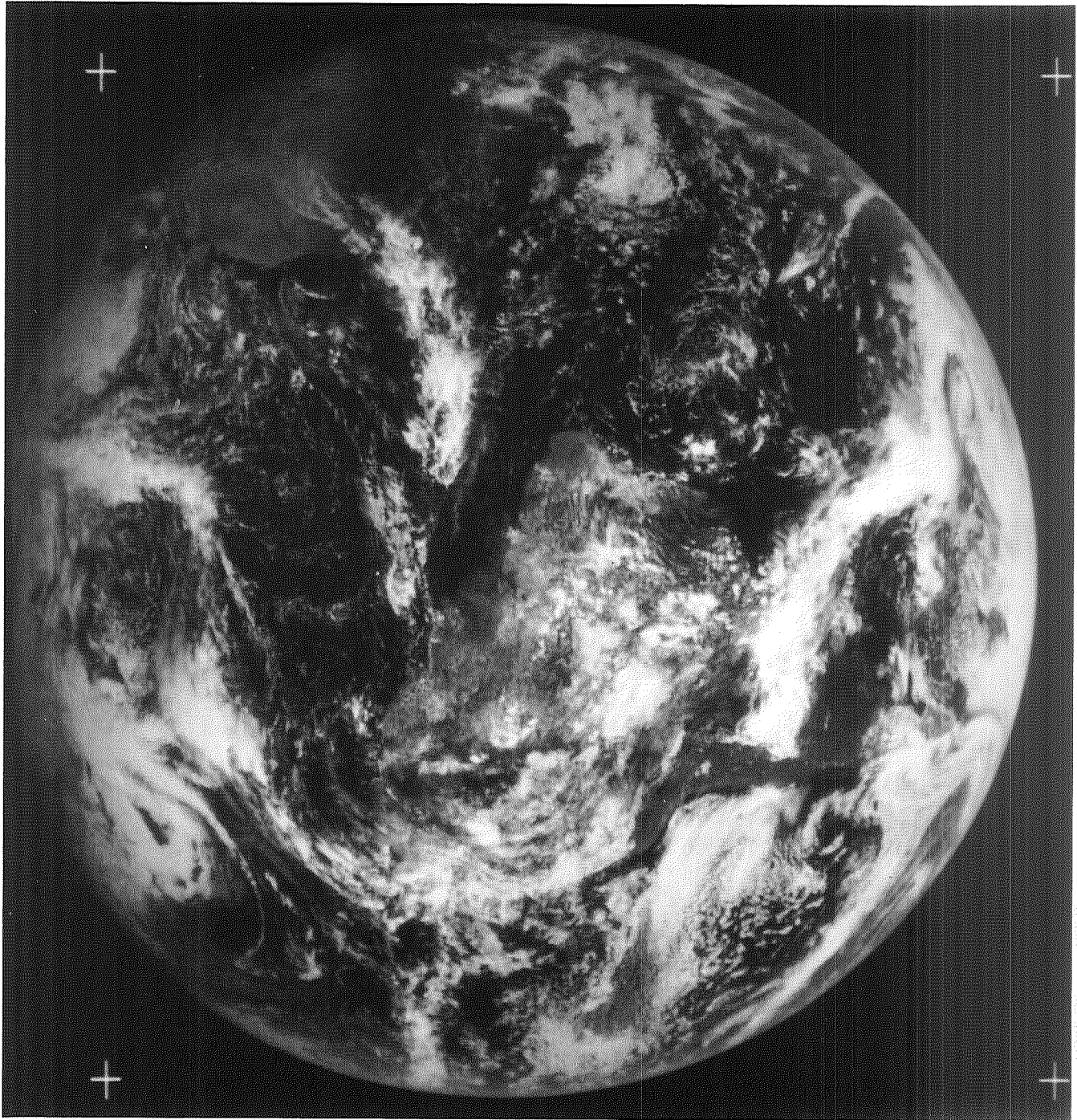
ATS-III MSSC 21 DEC 69 15 38 33 Z 5

MSSCC

22 Dec 69

SSP 46.97W 0.01N

Seq	End Time	Remarks
1	15 19 10	Electronic Problems Between Lines 1400-1600
2	15 44 53	
3	16 10 36	
4	16 36 18	
5	17 02 00	
6	17 27 40	
7	17 53 23	



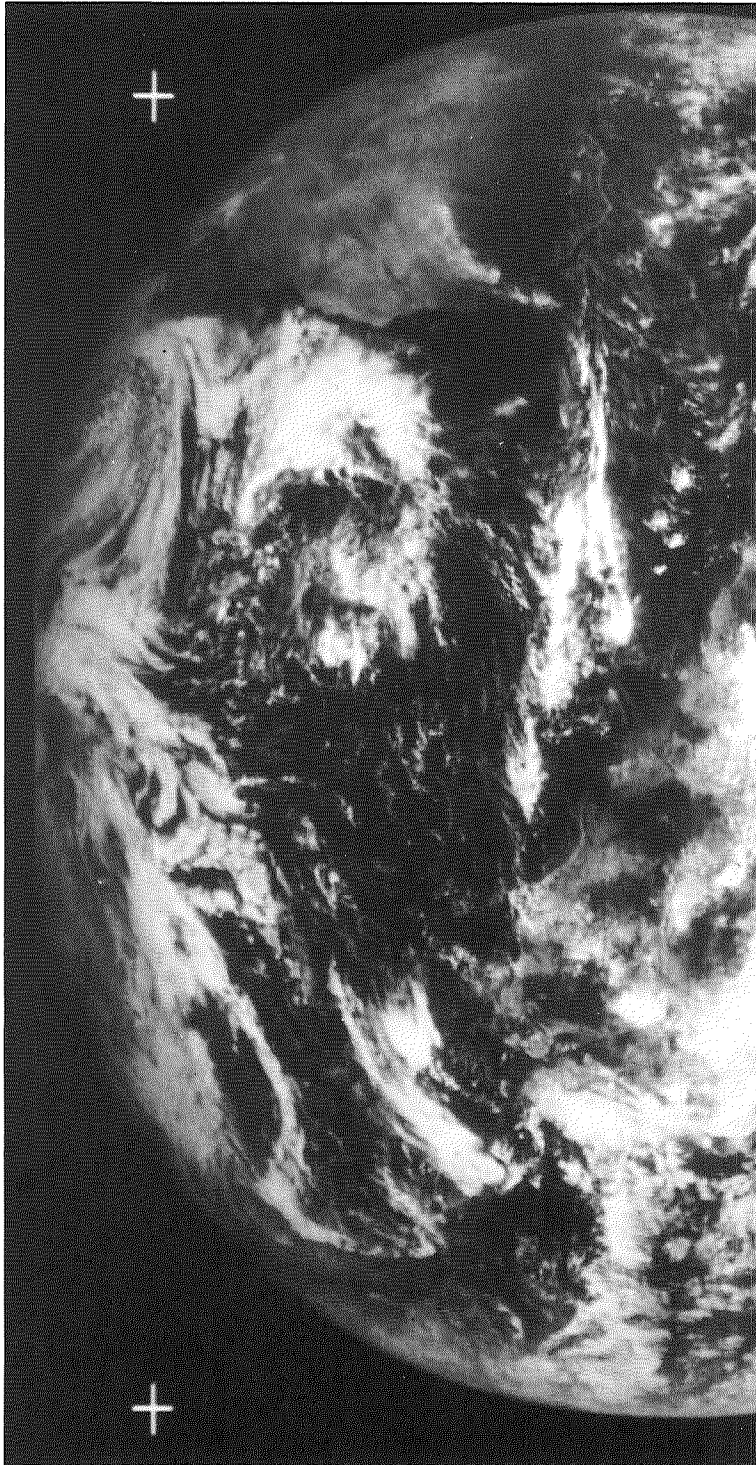
ATS-III MSSCC 22 DEC 69 15 44 53 Z 2

MSSCC

24 Dec 69

SSP 47.13W 0.00N

Seq	End Time	Remarks
1	14 25 32	Half Scan Poor Contrast
2	14 38 27	Half Scan Poor Contrast
3	14 47 58	Half Scan Poor Contrast
4	15 04 45	Half Scan Poor Contrast
5	15 17 31	Half Scan Poor Contrast
6	15 30 44	Half Scan Poor Contrast
7	15 43 52	Half Scan Poor Contrast
8	15 56 40	Half Scan Poor Contrast
9	16 09 40	Half Scan Poor Contrast
10	16 22 29	Half Scan Poor Contrast
11	16 35 26	Half Scan Poor Contrast
12	16 48 37	Half Scan Poor Contrast
13	17 01 23	Half Scan Poor Contrast
14	17 14 14	Half Scan Poor Contrast
15	17 27 18	Half Scan Poor Contrast
16	17 40 14	Half Scan Poor Contrast
17	17 53 05	Half Scan Poor Contrast
18	18 06 10	Half Scan Poor Contrast
19	18 19 19	Half Scan Poor Contrast
20	18 32 31	Half Scan Poor Contrast
21	18 46 51	Half Scan Poor Contrast
22	19 00 06	Half Scan Poor Contrast
23	19 27 21	Half Scan Poor Contrast
24	19 40 41	Half Scan Poor Contrast
25	19 54 00	Half Scan Poor Contrast Dropout
26	20 07 15	Half Scan Poor Contrast Interference
27	20 30 54	Half Scan Poor Contrast
28	20 45 04	Half Scan Poor Contrast
29	20 58 30	Half Scan Poor Contrast
30	21 09 55	Half Scan Poor Contrast
31	21 33 04	Half Scan Poor Contrast
32	21 46 19	Half Scan Poor Contrast



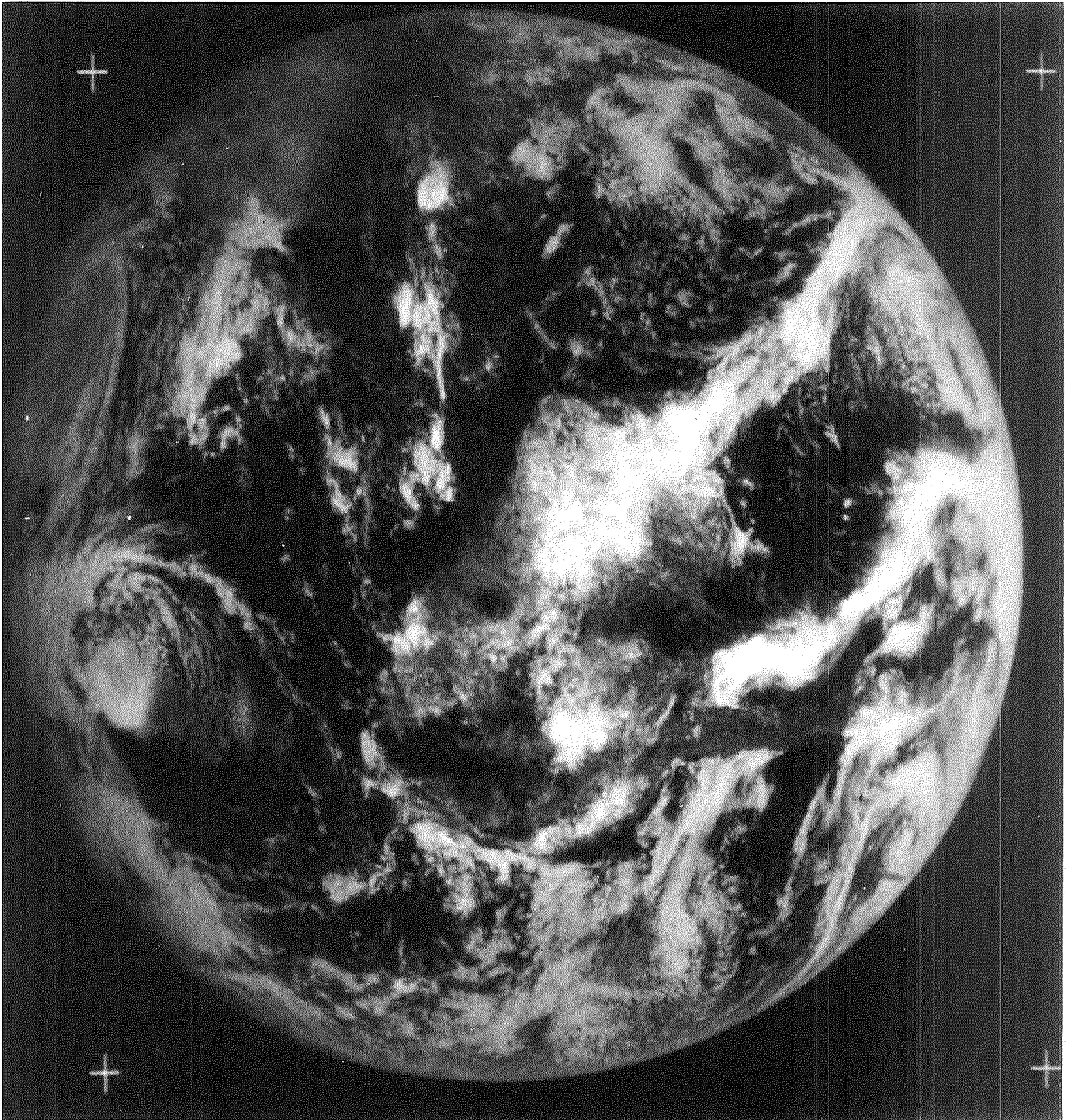
ATS-III MSSCC 24 DEC 69 15 17 31 Z 5

MSSCC

28 Dec 69

SSP 49.27W 0.00N

Seq	End Time	Remarks
1	15 37 21	
2	16 03 06	
3	16 22 47	5/6 Scan
4	21 38 49	



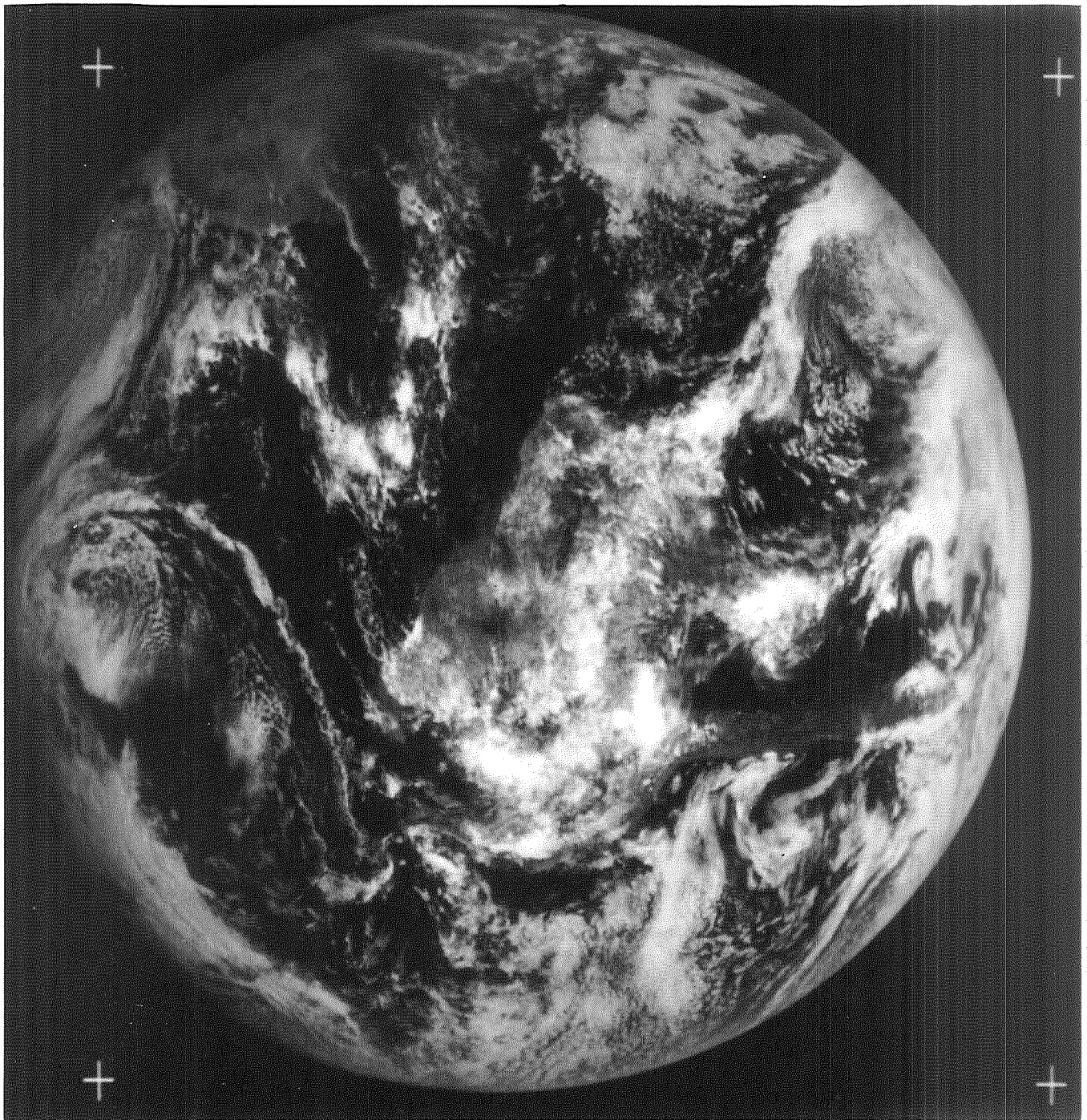
ATS-III MSSCC 28 DEC 69 15 37 21 Z 1

MSSCC

29 Dec 69

SSP 49.66W 0.00S

Seq	End Time	Remarks
1	11 36 32	
2	13 53 41	
3	14 19 28	
4	14 45 13	
5	15 10 59	
6	15 36 47	
7	16 02 33	
8	16 28 18	
9	21 31 53	



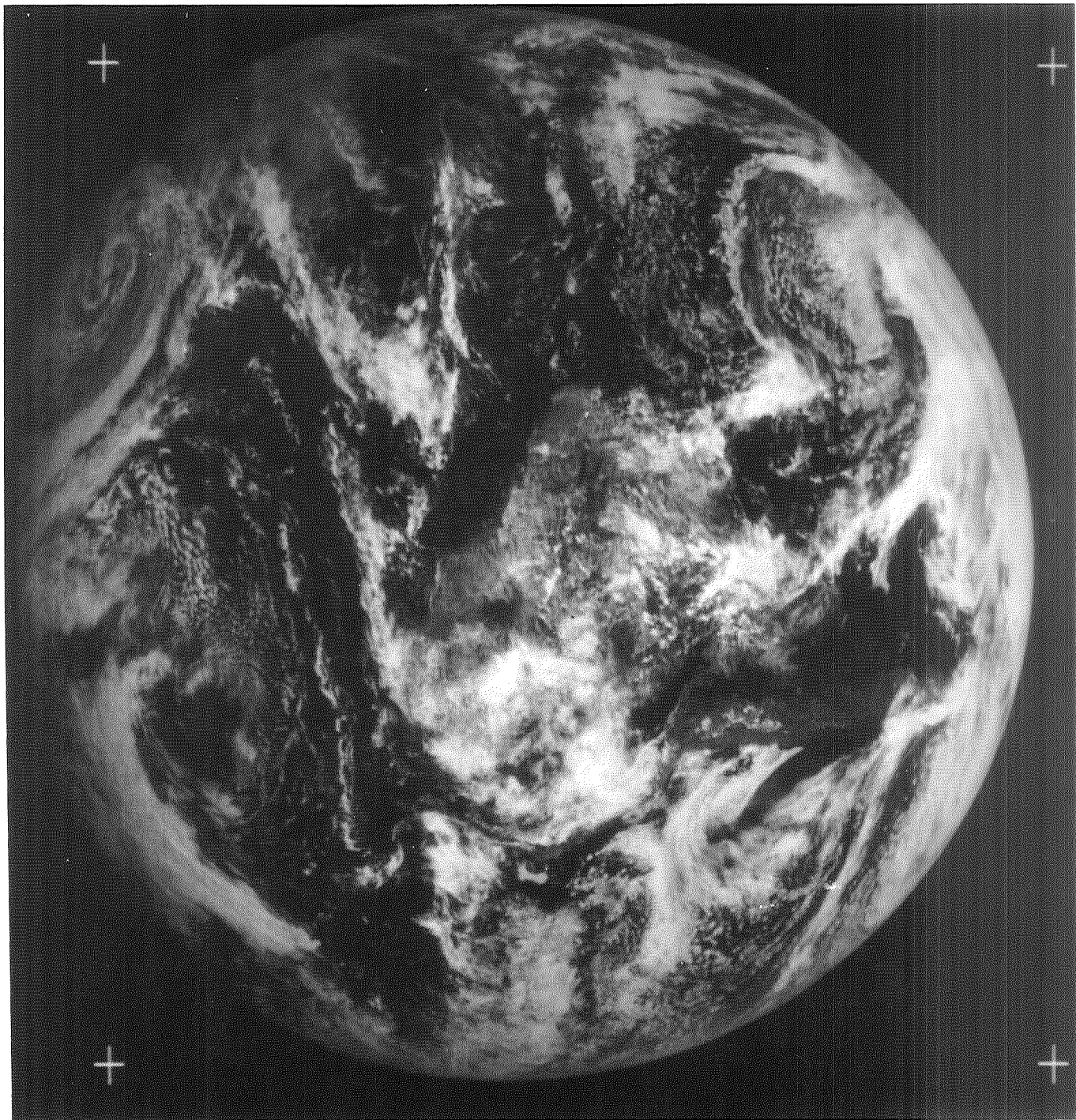
ATS-III MSSCC 29 DEC 69 15 36 47 Z 6

MSSCC

30 Dec 69

SSP 50.05W 0.00S

Seq	End Time	Remarks
1	11 37 41	
2	13 46 28	
3	14 12 14	
4	14 37 59	
5	15 03 47	
6	15 29 33	
7	15 55 18	
8	16 21 06	
9	21 32 39	



ATS-III MSSCC 30 DEC 69 15 29 33 Z 6

MSSCC

31 Dec 69

SSP 50.45W 0.01S

Seq	End Time	Remarks
1	11 34 49	
2	13 43 38	
3	14 09 24	
4	14 35 12	
5	15 00 58	
6	15 26 43	
7	15 52 32	
8	16 18 27	
9	21 34 17	



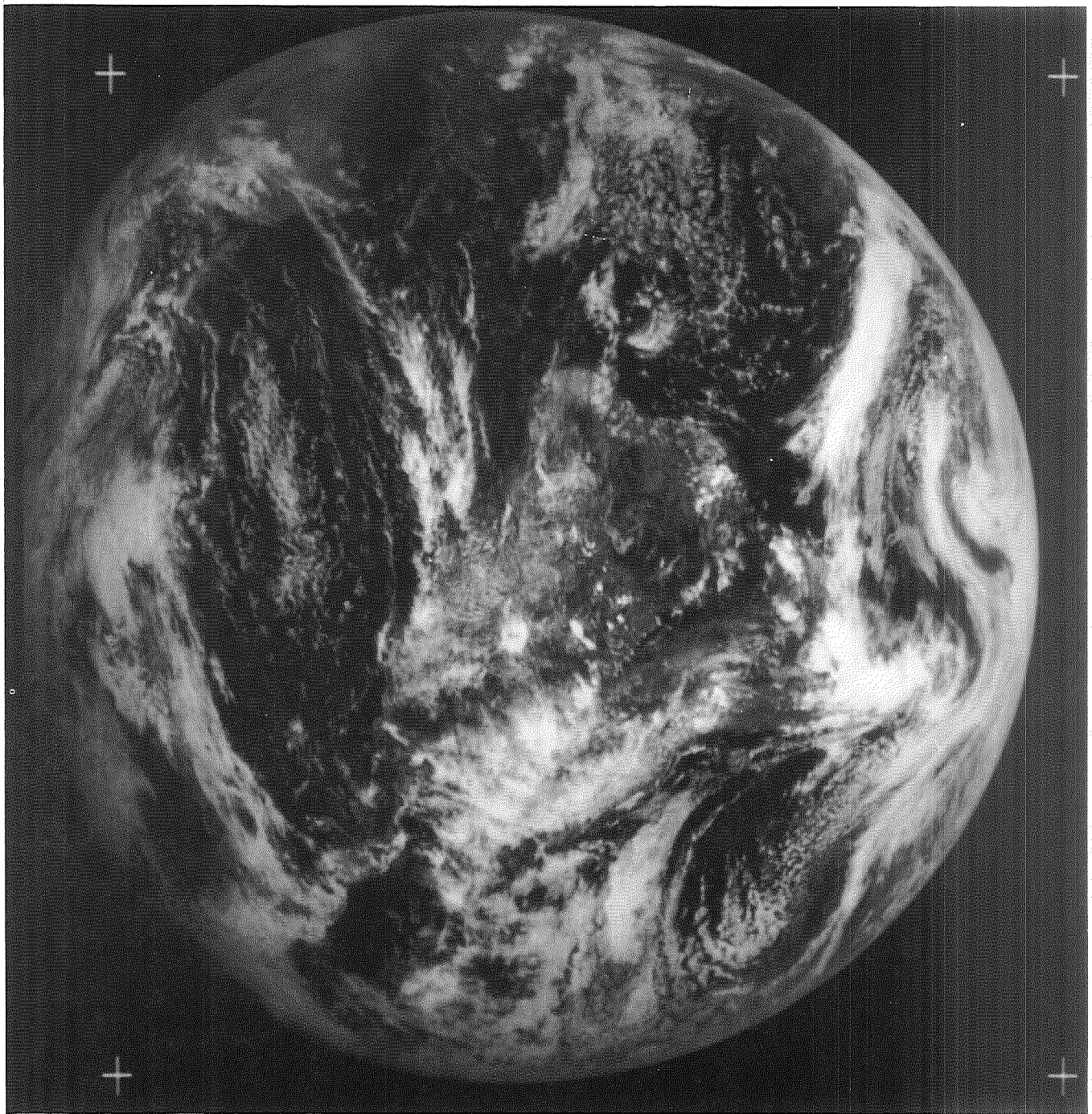
ATS-III MSSCC 31 DEC 69 15 52 32 Z 7

MSSCC

4 Jan 70

SSP 52.03W 0.03S

Seq	End Time	Remarks
1	11 40 03	
2	13 48 54	
3	14 14 39	
4	14 40 23	
5	15 06 11	
6	15 31 57	
7	15 57 42	
8	16 23 31	
9	21 35 28	



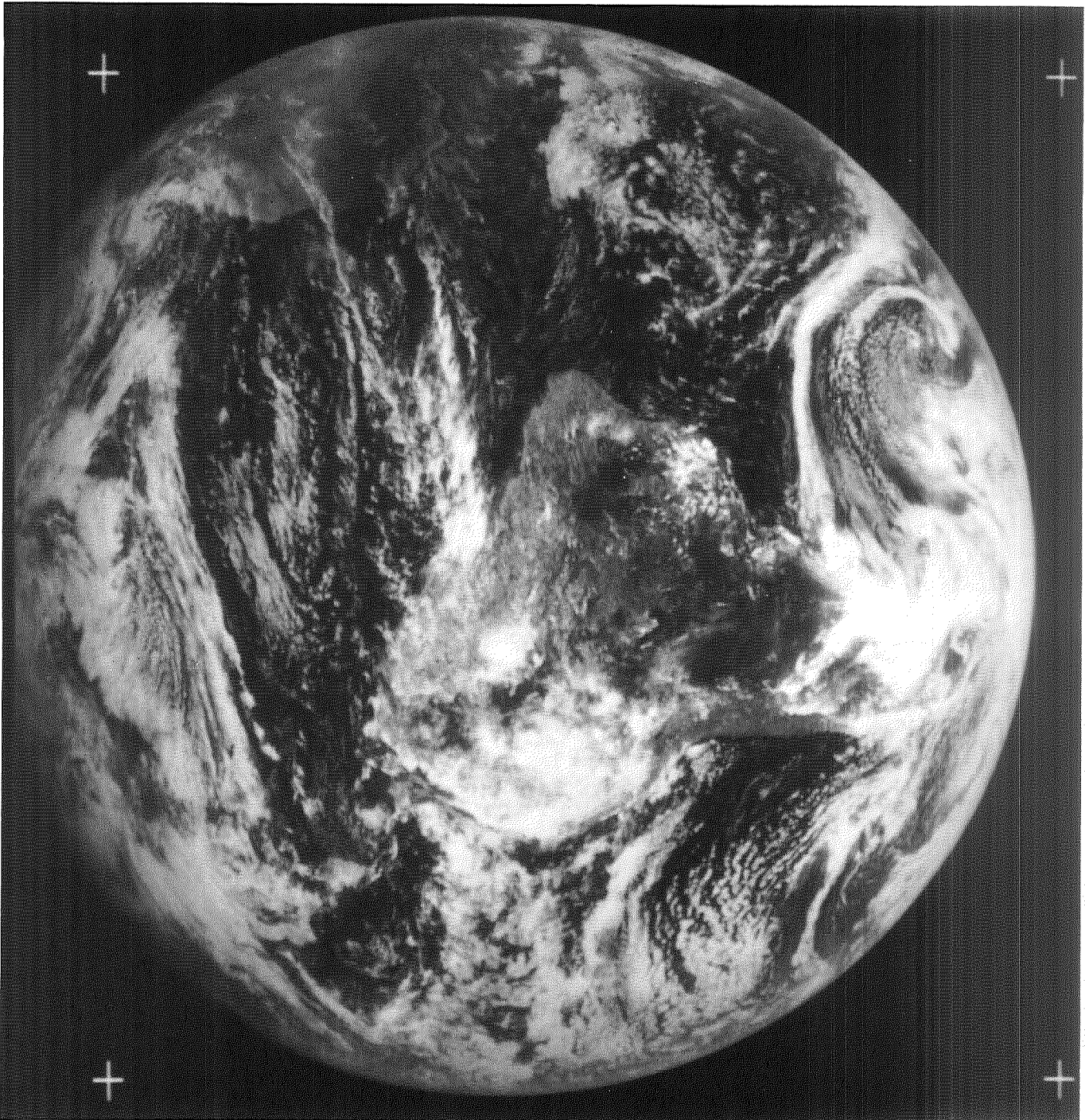
ATS-III MSSCC 4 JAN 70 15 31 57 Z 6

MSSCC

5 Jan 70

SSP 52.43W 0.04S

Seq	End Time	Remarks
1	14 46 27	
2	15 12 13	
3	15 37 58	
4	16 03 44	
5	16 29 32	
6	16 55 17	
7	17 21 03	
8	21 41 44	



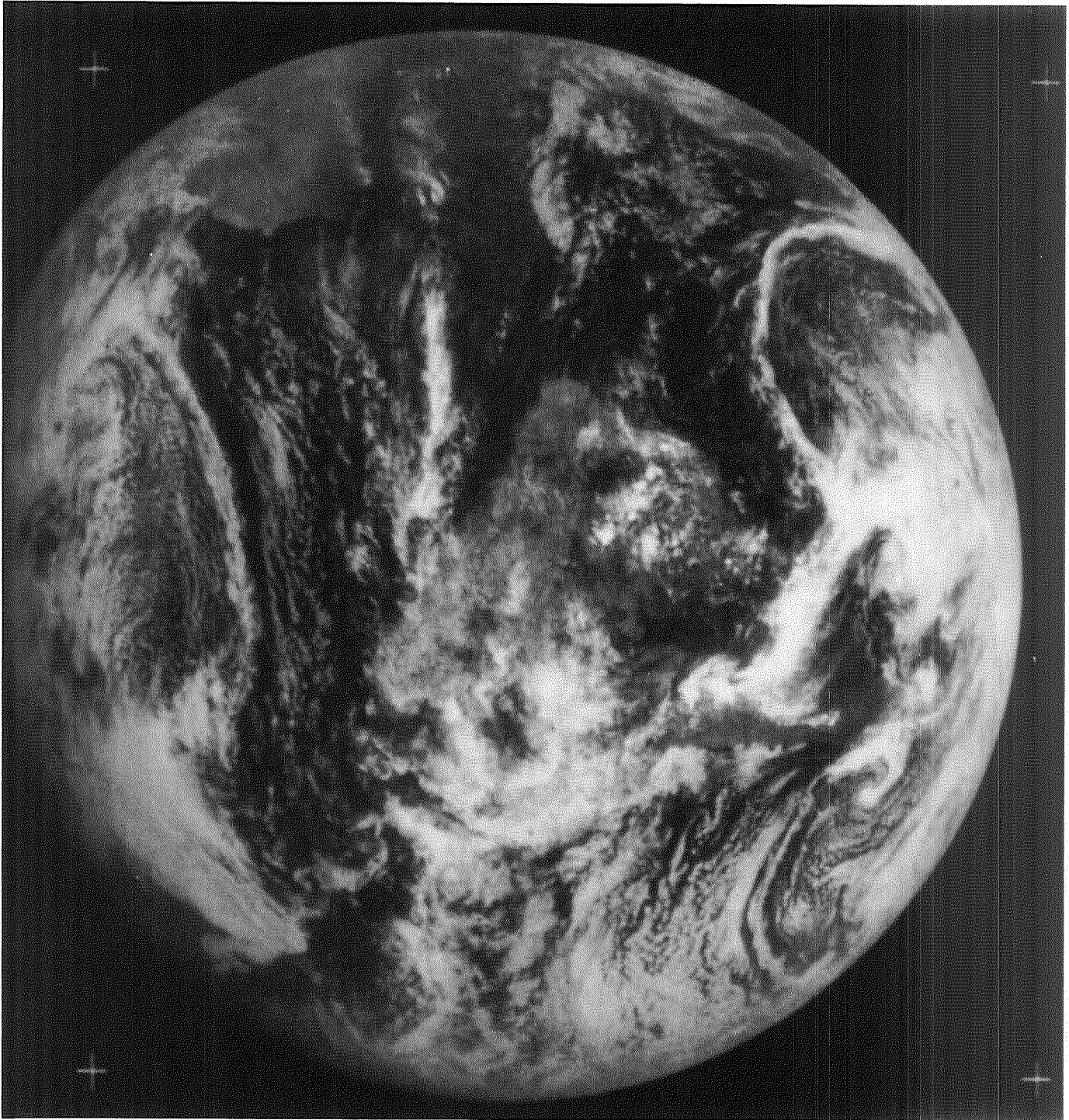
ATS-III MSSCC 5 JAN 70 15 37 58 Z 3

MSSCC

6 Jan 70

SSP 52.84W 0.15S

Seq	End Time	Remarks
1	14 40 18	Out of Focus
2	15 06 04	Out of Focus
3	15 32 36	Half Scan Out of Focus
4	15 43 19	Half Scan Out of Focus
5	15 54 03	Half Scan Out of Focus
6	16 04 46	Half Scan Out of Focus
7	16 15 25	Half Scan Out of Focus
8	16 25 34	Half Scan Out of Focus
9	16 44 30	Half Scan Out of Focus
10	16 58 49	Half Scan Out of Focus Voltage Changes
11	17 15 58	Half Scan Out of Focus
12	17 26 42	Half Scan Out of Focus
13	17 37 22	Half Scan Out of Focus
14	17 48 05	Half Scan Out of Focus
15	17 59 02	Half Scan Out of Focus
16	18 13 27	One Third Scan Out of Focus
17	18 32 27	Half Scan Out of Focus
18	18 44 28	Half Scan Out of Focus
19	18 59 51	Half Scan Out of Focus
20	19 11 39	Half Scan Out of Focus
21	19 23 13	Half Scan Out of Focus
22	19 34 59	Half Scan Out of Focus
23	19 46 51	Half Scan Out of Focus
24	19 58 40	Half Scan Out of Focus
25	20 18 47	Half Scan Out of Focus
26	20 30 39	Half Scan Out of Focus
27	20 42 41	Half Scan Out of Focus
28	20 53 57	Half Scan Out of Focus
29	21 05 52	Half Scan Out of Focus
30	21 17 34	Half Scan Out of Focus
31	21 29 53	Half Scan Out of Focus
32	21 42 42	Half Scan Out of Focus
33	21 54 31	Half Scan Out of Focus
34	22 06 31	Half Scan Out of Focus
35	22 21 27	Half Scan Out of Focus
36	22 32 25	Half Scan Out of Focus



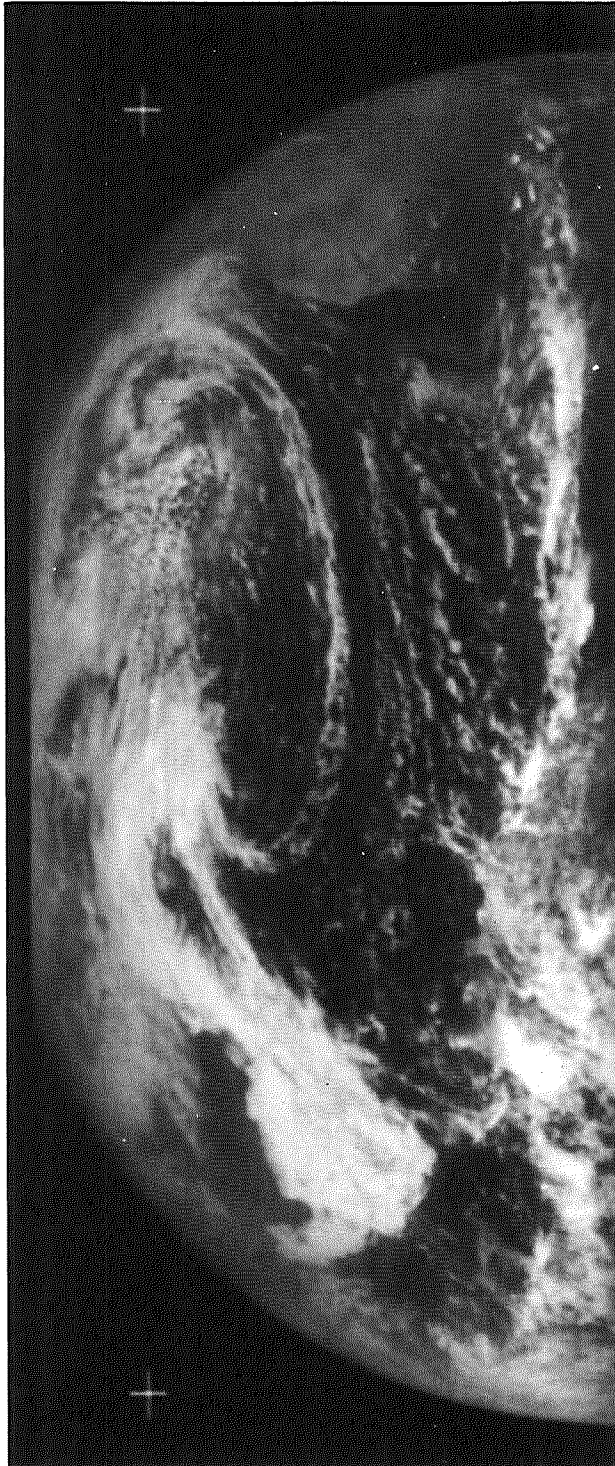
ATS-III MSSCC 6 JAN 70 15 06 04 Z 2

MSSCC

7 Jan 70

SSP 53.24W 0.16S

Seq	End Time	Remarks
1	14 26 34	Half Scan
2	14 37 15	Half Scan
3	14 48 11	Half Scan
4	14 59 01	Half Scan
5	15 10 07	Half Scan
6	15 20 12	Half Scan
7	15 31 31	Half Scan
8	15 42 12	Half Scan
9	15 52 53	Half Scan
10	16 03 33	Half Scan
11	16 14 32	Half Scan
12	16 25 16	Half Scan
13	16 36 04	Half Scan
14	16 47 31	Half Scan
15	16 58 12	Half Scan
16	17 08 58	Half Scan
17	17 19 57	Half Scan
18	17 30 41	Half Scan
19	17 41 21	Half Scan
20	17 52 23	Half Scan
21	18 03 03	Half Scan
22	18 15 34	Half Scan
23	18 27 20	Half Scan
24	18 38 48	Half Scan
25	18 50 31	Half Scan
26	19 04 24	Half Scan
27	19 16 05	Half Scan
28	19 28 03	Half Scan
29	19 39 52	Half Scan
30	19 52 04	Half Scan
31	20 03 38	Half Scan
32	20 15 24	Half Scan
33	20 27 28	Half Scan
34	20 39 11	Half Scan
35	20 50 54	Half Scan
36	21 02 46	Half Scan
37	21 18 08	Half Scan
38	21 30 13	Half Scan
39	21 42 02	Half Scan
40	21 53 51	Half Scan
41	22 05 39	Half Scan
42	22 17 25	Half Scan
43	22 28 33	Half Scan



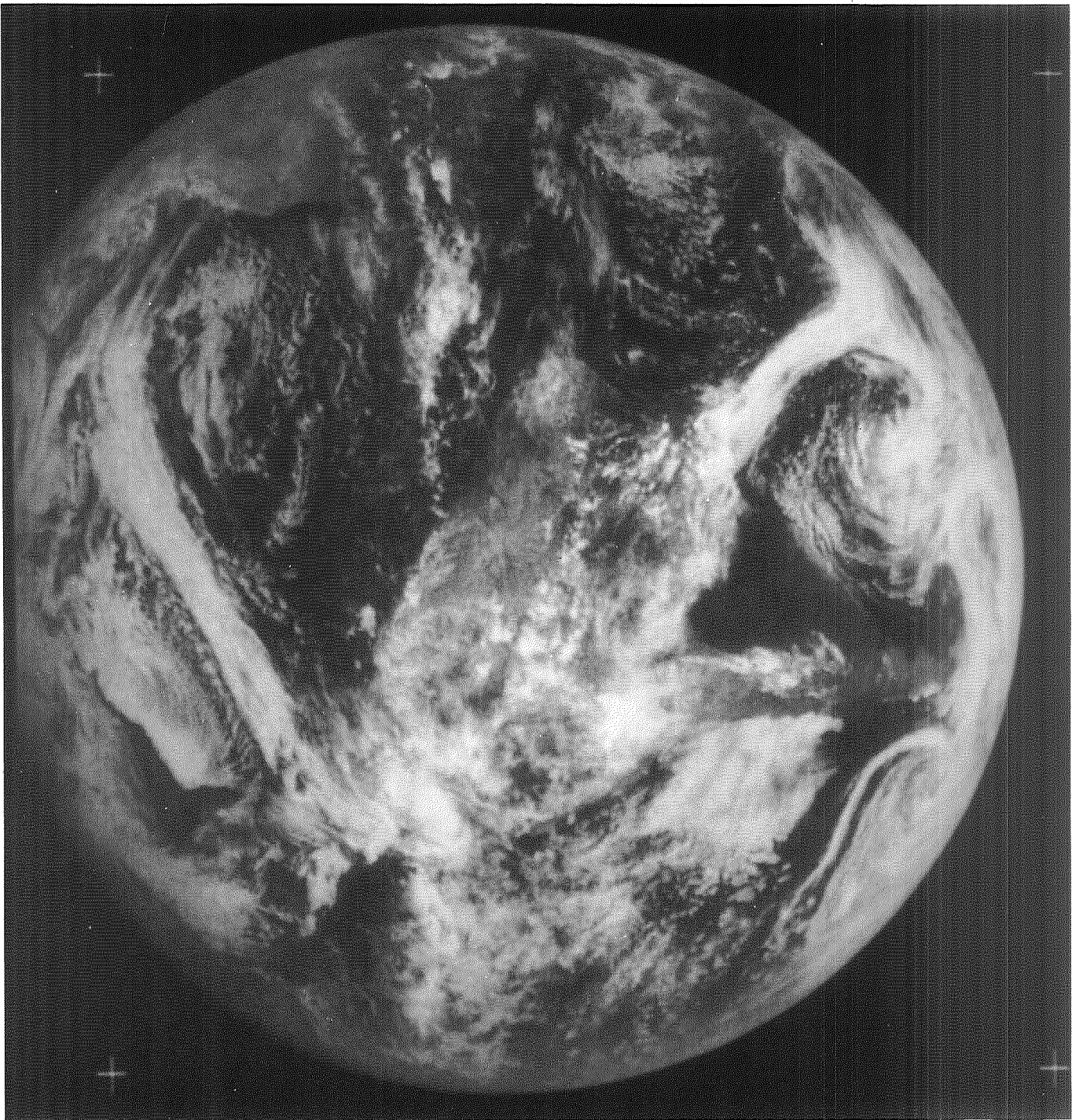
ATS-III MSSCC 7 JAN 70 15 42 12 Z 8

MSSCC

10 Jan 70

SSP 54.46W 0.17S

Seq	End Time	Remarks
1	14 38 12	
2	15 03 58	Slight Voltage Change
3	15 29 43	
4	15 55 28	
5	16 21 17	
6	16 47 02	
7	17 12 48	
8	21 36 49	



ATS-III MSSCC 10 JAN 70 15 29 43 Z 3

MSSCC

11 Jan 70

SSP 54.87W 0.17S

Seq	End Time	Remarks
1	14 39 09	
2	15 04 55	
3	15 30 40	
4	15 53 21	
5	16 22 11	
6	16 47 59	
7	17 13 45	
8	21 33 22	



ATS-III MSSCC 11 JAN 70 15 30 40 Z 3

MSSCC

12 Jan 70

SSP 55.28W 0.17S

Seq	End Time	Remarks
1	14 39 20	Poor Contrast
2	15 05 06	Poor Contrast
3	15 30 51	Poor Contrast
4	15 56 37	Poor Contrast
5	16 22 25	Poor Contrast
6	16 48 11	Poor Contrast
7	17 13 56	Poor Contrast
8	21 34 01	Poor Contrast



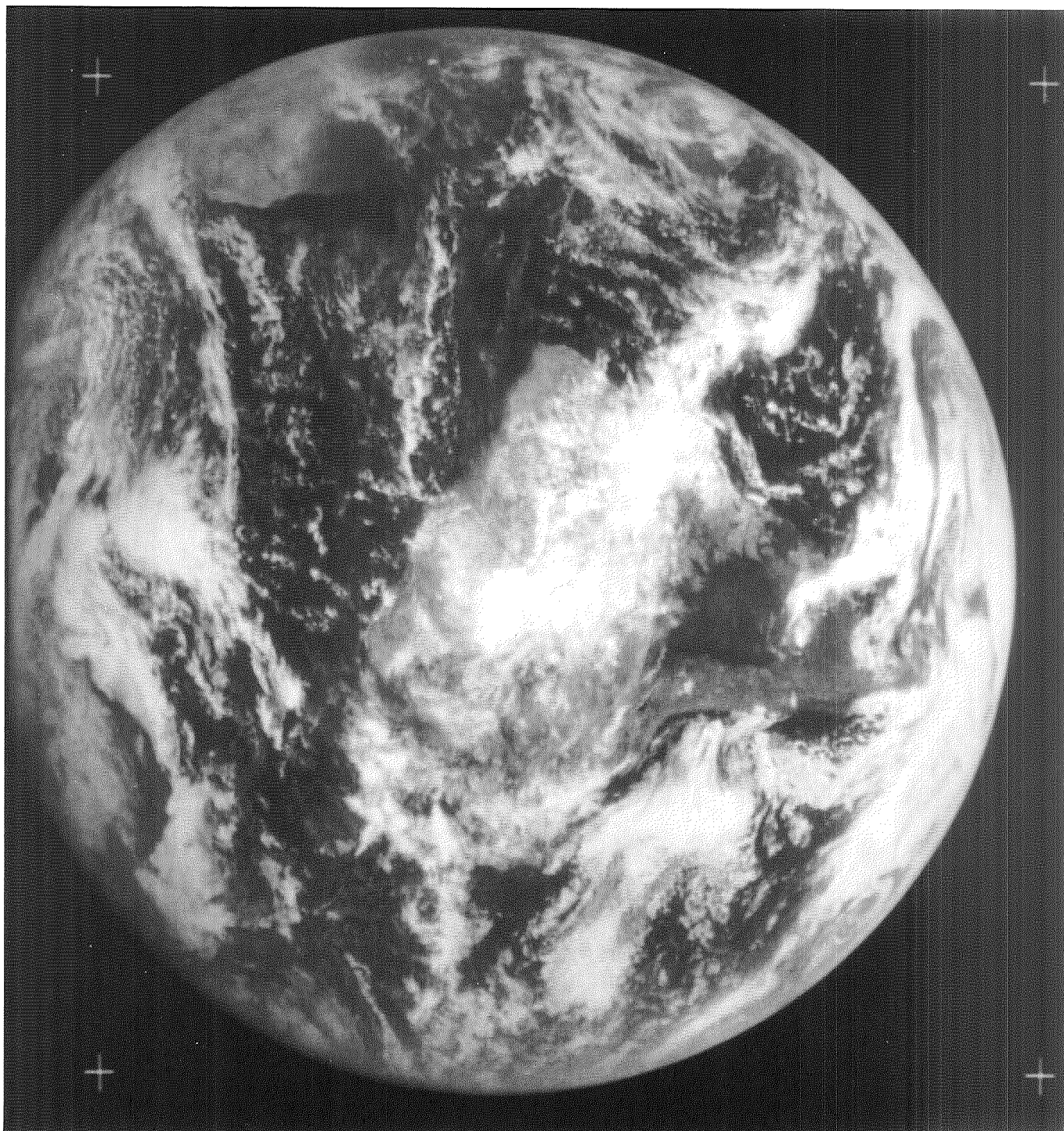
ATS-III MSSCC 12 JAN 70 15 30 51 Z 3

MSSCC

13 Jan 70

SSP 55.69W 0.18S

Seq	End Time	Remarks
1	14 35 00	Code in Picture
2	15 00 44	
3	15 26 32	
4	15 52 17	
5	16 18 03	
6	16 43 49	
7	17 09 34	
8	17 35 23	
9	21 36 30	



ATS-III MSSCC 13 JAN 70 15 26 32 Z 3

MSSCC

18 Jan 70

SSP 57.77W 0.21S

Seq	End Time	Remarks
1	15 02 22	Dropout Without Film Advance
2	15 28 10	
3	15 53 56	
4	16 19 41	
5	16 45 27	
6	17 11 13	
7	17 37 01	
8	21 39 02	No Data



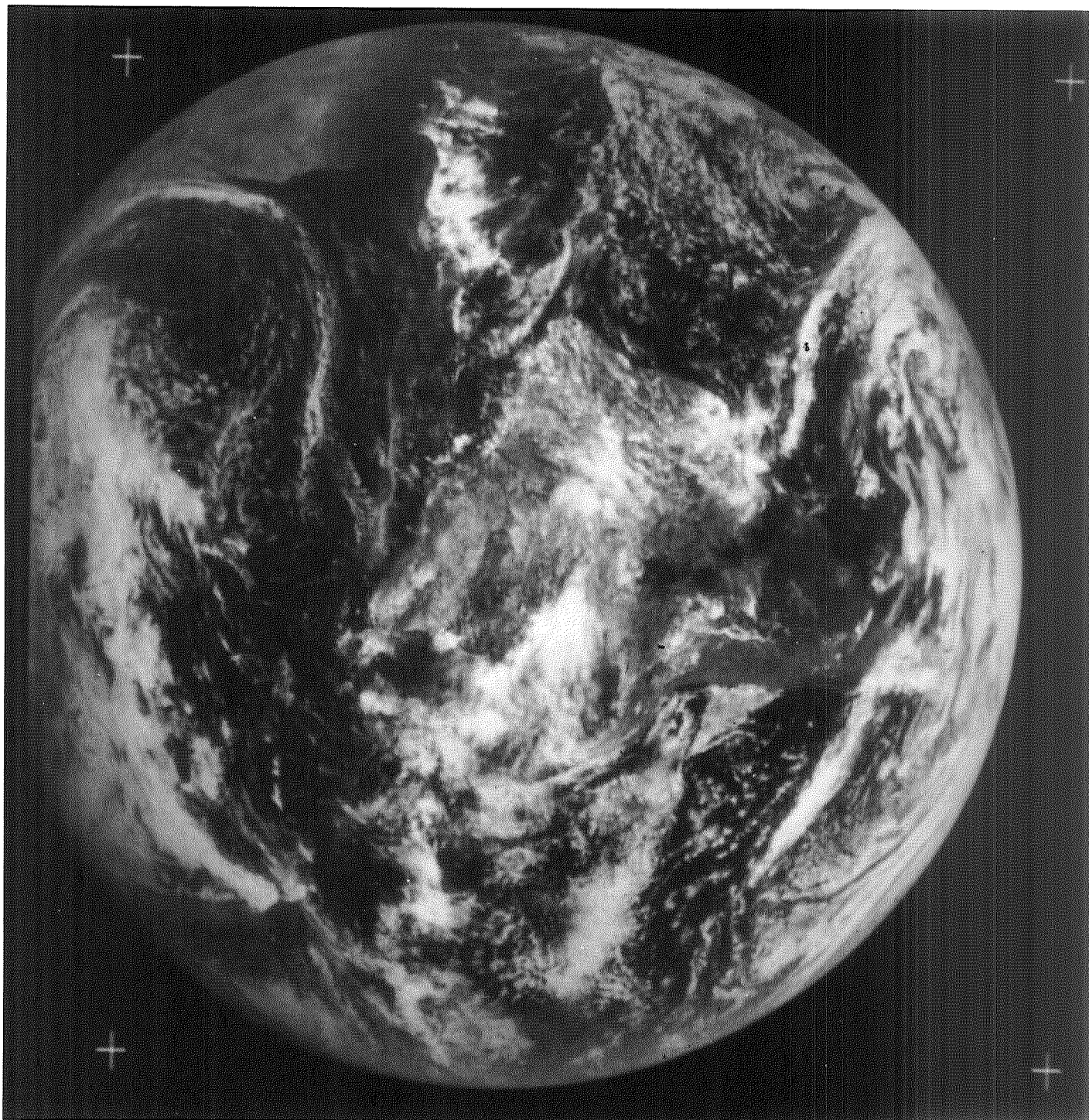
ATS-III MSSCC 18 JAN 70 15 53 56 Z 3

MSSCC

19 Jan 70

SSP 58.19W 0.22S

Seq	End Time	Remarks
1	14 40 28	
2	15 26 06	Level Changes Sync Problem Out of Focus
3	15 51 52	
4	16 17 40	
5	16 43 27	No Data
6	17 09 11	
7	17 35 00	
8	21 42 27	



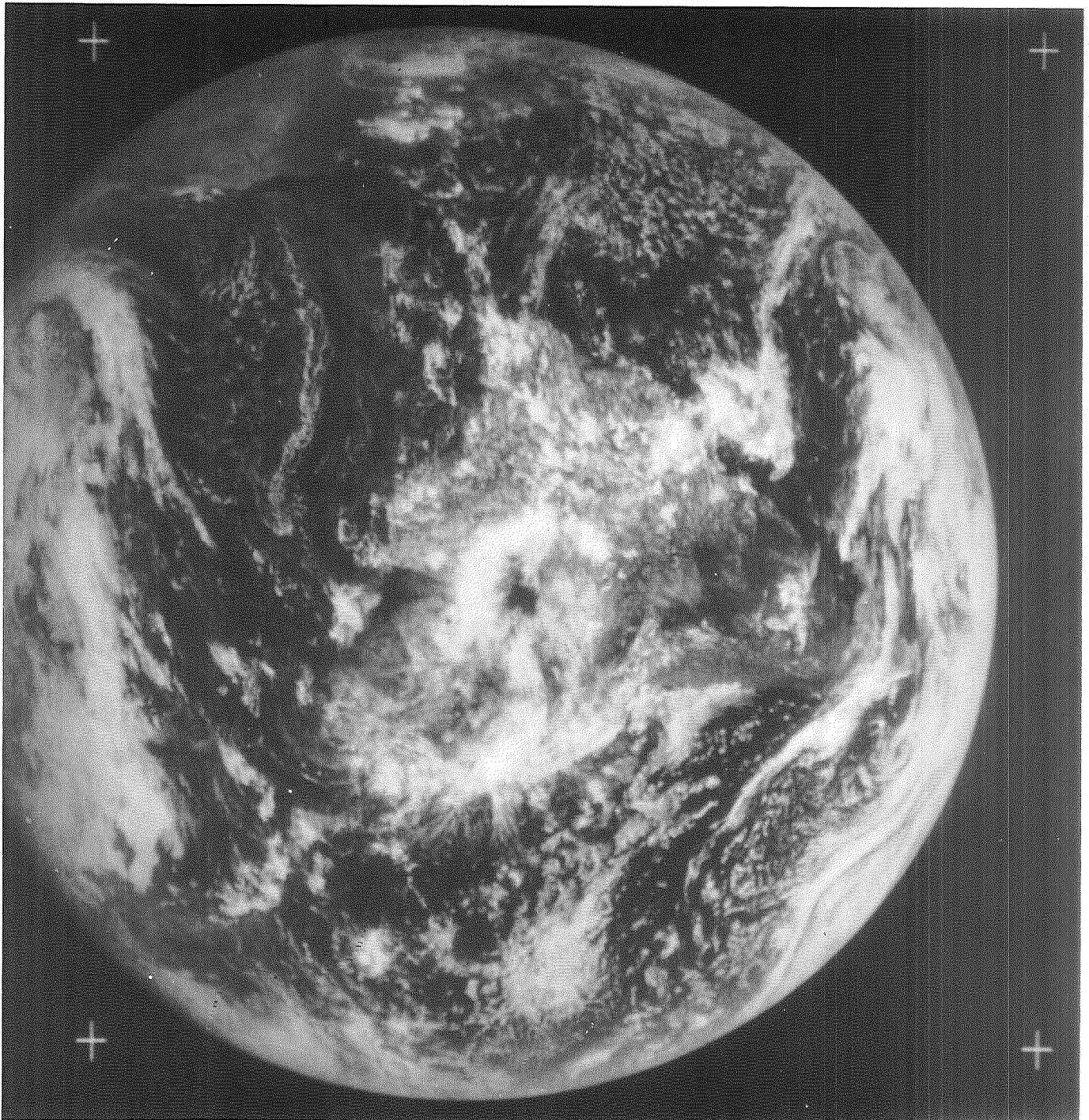
ATS-III MSSCC 19 JAN 70 15 51 52 Z 3

MSSCC

20 Jan 70

SSP 58.60W 0.22S

Seq	End Time	Remarks
1	14 38 33	
2	15 04 21	
3	15 30 06	
4	15 55 51	
5	16 21 37	
6	16 47 25	
7	17 13 11	
8	21 34 57	



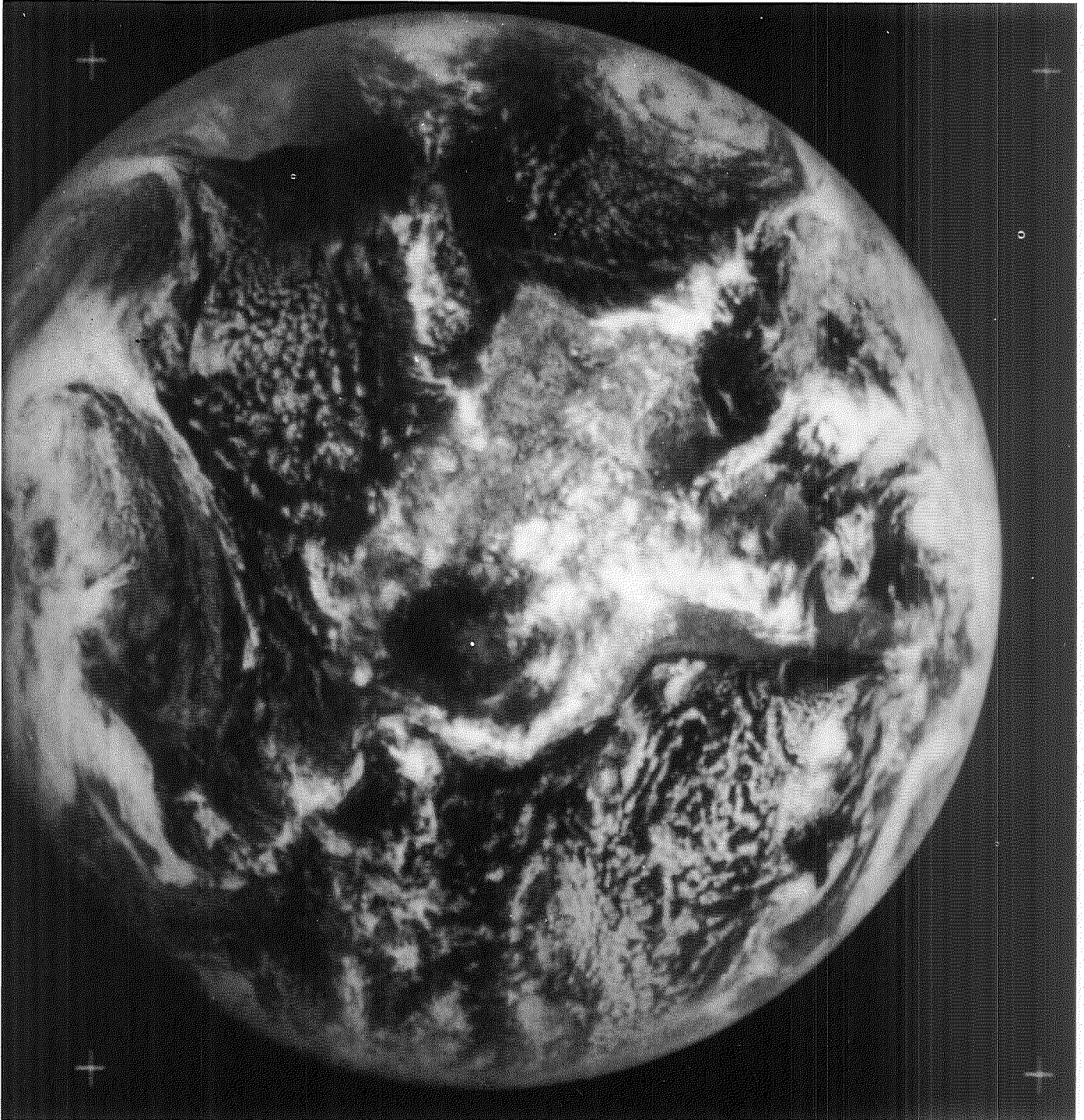
ATS-III MSSCC 20 JAN 70 16 21 37 Z 5d

MSSCC

25 Jan 70

SSP 60.74W 0.24S

Seq	End Time	Remarks
1	15 13 15	
2	15 49 21	
3	16 15 06	
4	16 40 51	
5	17 06 37	
6	17 32 25	
7	21 41 59	



ATS-III MSSCC 25 JAN 70 15 49 21 Z 2

MSSCC

26 Jan 70

SSP 61.17W 0.25S

Seq	End Time	Remarks
1	14 40 18	
2	15 06 03	
3	15 31 49	
4	15 57 37	
5	16 10 28	
6	16 49 08	
7	17 14 53	
8	21 34 20	



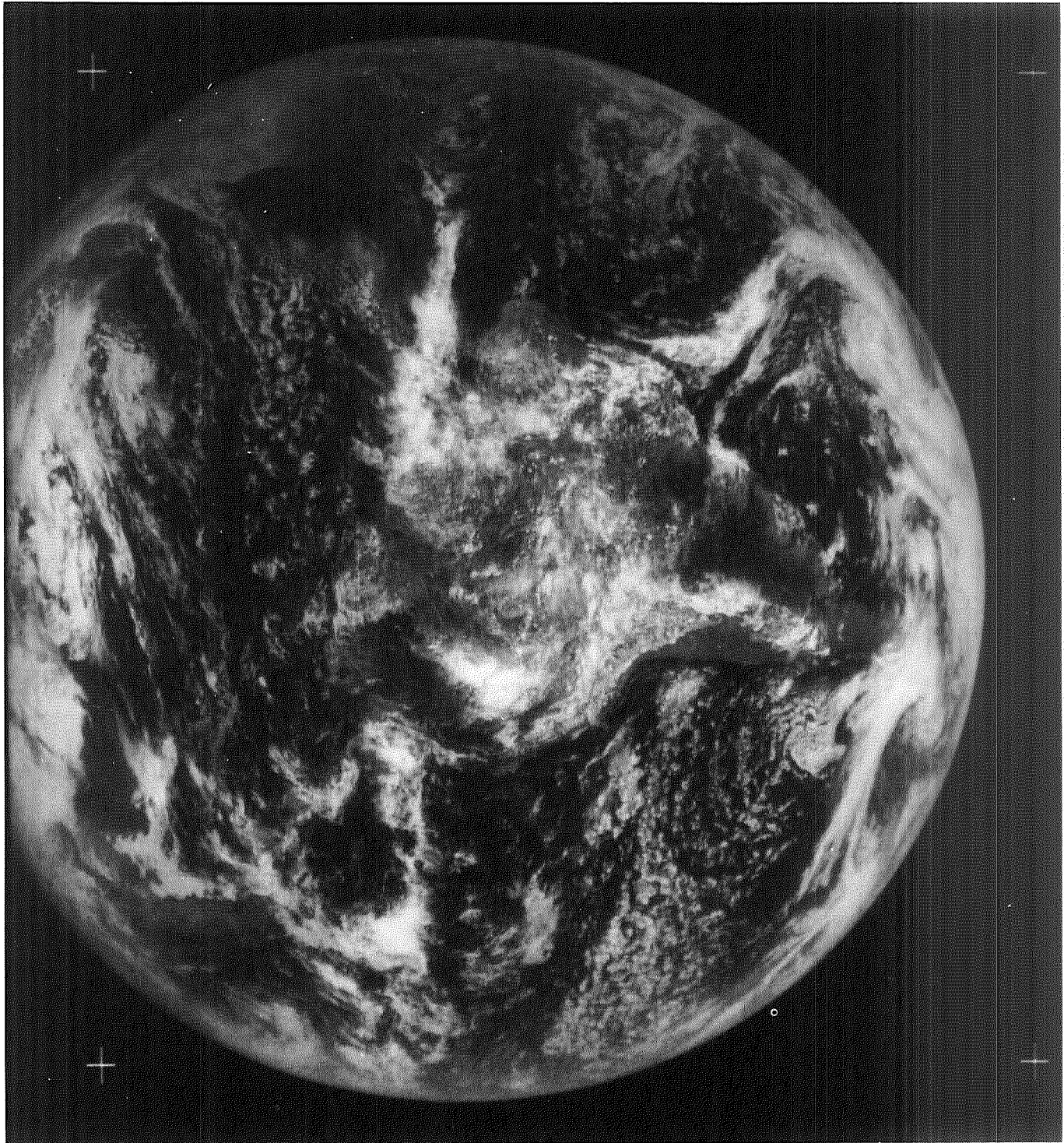
ATS-III MSSCC 26 JAN 70 15 57 37 Z 4

MSSCC

27 Jan 70

SSP 61.60W 0.25S

Seq	End Time	Remarks
1	15 02 32	Some Noise
2	15 28 21	Some Noise
3	15 54 07	Some Noise
4	16 20 05	Some Noise Voltage Changes
5	16 45 38	Some Noise
6	17 11 23	Some Noise
7	17 36 18	Some Noise
8	18 05 44	Some Noise
9	18 31 26	Some Noise
10	18 57 11	Some Noise
11	19 22 55	Some Noise



ATS-III MSSCC 27 JAN 70 16 45 38 Z 5

MSSCC

28 Jan 70

SSP 62.04W 0.26S

Seq	End Time	Remarks
1	14 40 23	Slight Noise
2	15 06 08	Slight Noise
3	15 31 54	Slight Noise
4	15 57 42	Slight Noise
5	16 23 27	Slight Noise
6	16 49 13	Slight Noise
7	17 14 59	Slight Noise
8	17 40 44	Slight Noise
9	18 06 33	Slight Noise
10	18 32 18	Slight Noise
11	18 58 04	Slight Noise
12	19 23 52	Slight Noise
13	19 59 43	Slight Noise
14	20 25 29	Slight Noise
15	20 51 17	Slight Noise



ATS-III MSSCC 28 JAN 70 16 23 27 Z 5

MSSCC

31 Jan 70

SSP 63.34W 0.27S

Seq	End Time	Remarks
1	14 53 41	
2	15 19 30	
3	15 45 15	
4	16 11 01	
5	16 36 46	
6	17 02 32	
7	17 28 20	
8	17 54 05	
9	18 19 51	No Data
10	18 45 40	
11	19 11 25	
12	19 57 39	
13	20 23 47	
14	20 49 12	



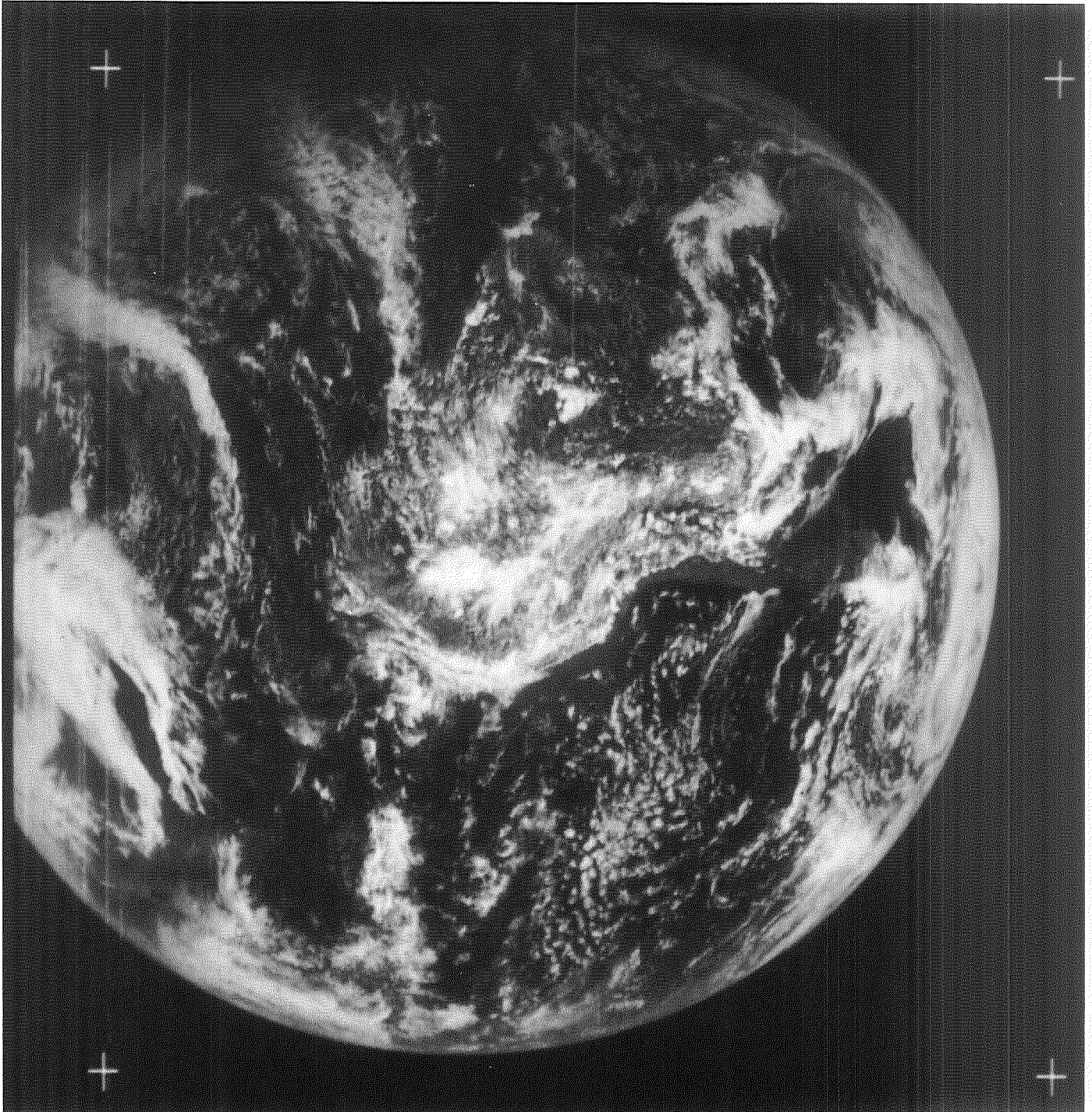
ATS-III MSSCC 31 JAN 70 16 36 46 Z 5

MSSCC

2 Feb 70

SSP 64.22W 0.29S

Seq	End Time	Remarks
1	17 51 49	
2	18 17 38	
3	18 41 40	Dropouts
4	19 09 09	Dropout
5	19 34 54	Dropout
6	20 00 40	Dropout
7	20 26 26	Dropout
8	20 52 14	Dropout



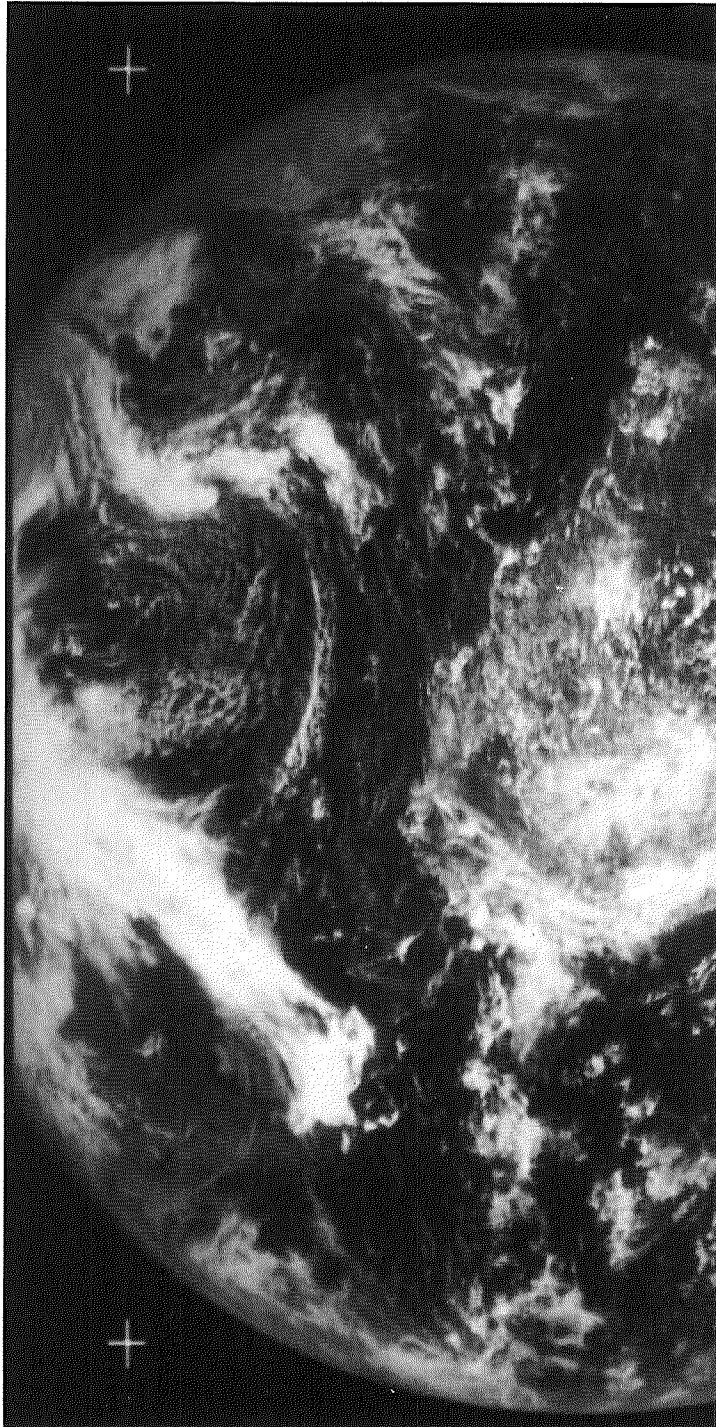
ATS-III MSSCC 2 FEB 70 18 17 38 Z 2

MSSCC

3 Feb 70

SSP 64.66W 0.30S

Seq	End Time	Remarks
1	14 28 41	Slight Noise
2	14 43 47	
3	14 58 06	Slight Noise
4	15 12 02	
5	15 26 14	Slight Noise
6	15 45 39	
7	16 01 19	
8	16 15 25	Slight Noise
9	16 29 15	Half Scan Slight Noise
10	16 43 27	Half Scan
11	16 57 35	Half Scan
12	17 12 32	Half Scan
13	17 26 42	Half Scan
14	17 41 36	Half Scan
15	17 55 47	Half Scan Slight Noise
16	18 10 38	Half Scan
17	18 24 23	Half Scan
18	18 40 16	Half Scan
19	18 53 40	Half Scan
20	19 07 21	Half Scan
21	19 20 51	Half Scan
22	19 34 39	Half Scan
23	19 48 12	Half Scan
24	20 01 48	Half Scan
25	20 16 41	Slight Noise
26	20 30 07	
27	20 43 25	



ATS-III MSSCC 3 FEB 70 16 57 35 Z 11

MSSCC

4 Feb 70

SSP 65.10W 0.30S

Seq	End Time	Remarks
1	14 43 40	
2	15 09 26	
3	15 35 11	Slight Noise
4	16 00 57	Slight Noise
5	16 26 42	Slight Noise
6	16 52 31	Slight Noise
7	17 18 16	Slight Noise
8	17 44 02	Slight Noise
9	18 09 50	Slight Noise
10	18 40 20	Noise



ATS-III MSSCC 4 FEB 70 16 52 31 Z 6

MSSCC

8 Feb 70

SSP 57.84W 0.30S

Seq	End Time	Remarks
1	14 38 33	Slight Noise
2	15 04 21	Slight Noise
3	15 30 10	Slight Noise
4	15 55 59	Slight Noise
5	16 21 50	Slight Noise
6	16 47 39	Slight Noise
7	17 13 27	Slight Noise
8	17 39 18	Slight Noise
9	18 46 59	
10	19 01 05	Half Scan



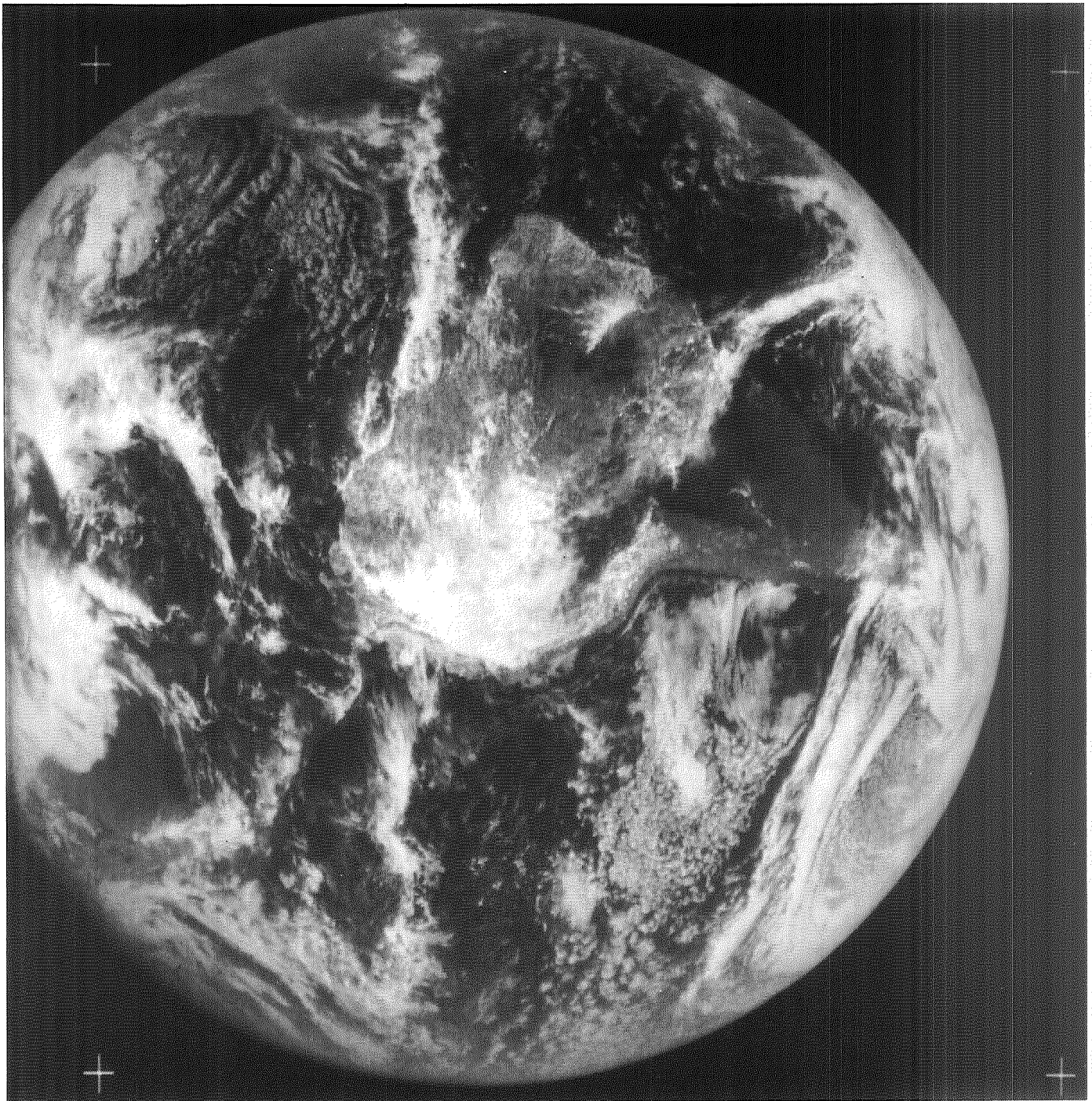
ATS-III MSSCC 8 FEB 70 16 47 39 Z 6

MSSCC

9 Feb 70

SSP 68.53W 0.31S

Seq	End Time	Remarks
1	15 31 40	
2	15 57 27	
3	16 23 18	
4	16 49 10	
5	17 15 04	
6	17 40 49	
7	17 54 51	Half Scan
8	18 08 07	Half Scan
9	18 21 49	Half Scan
10	18 34 57	Half Scan
11	18 48 06	Half Scan
12	19 01 27	Half Scan
13	19 27 16	Half Scan
14	19 40 31	Half Scan
15	19 54 04	Half Scan
16	20 07 22	Half Scan
17	20 20 54	Half Scan
18	20 34 18	Half Scan



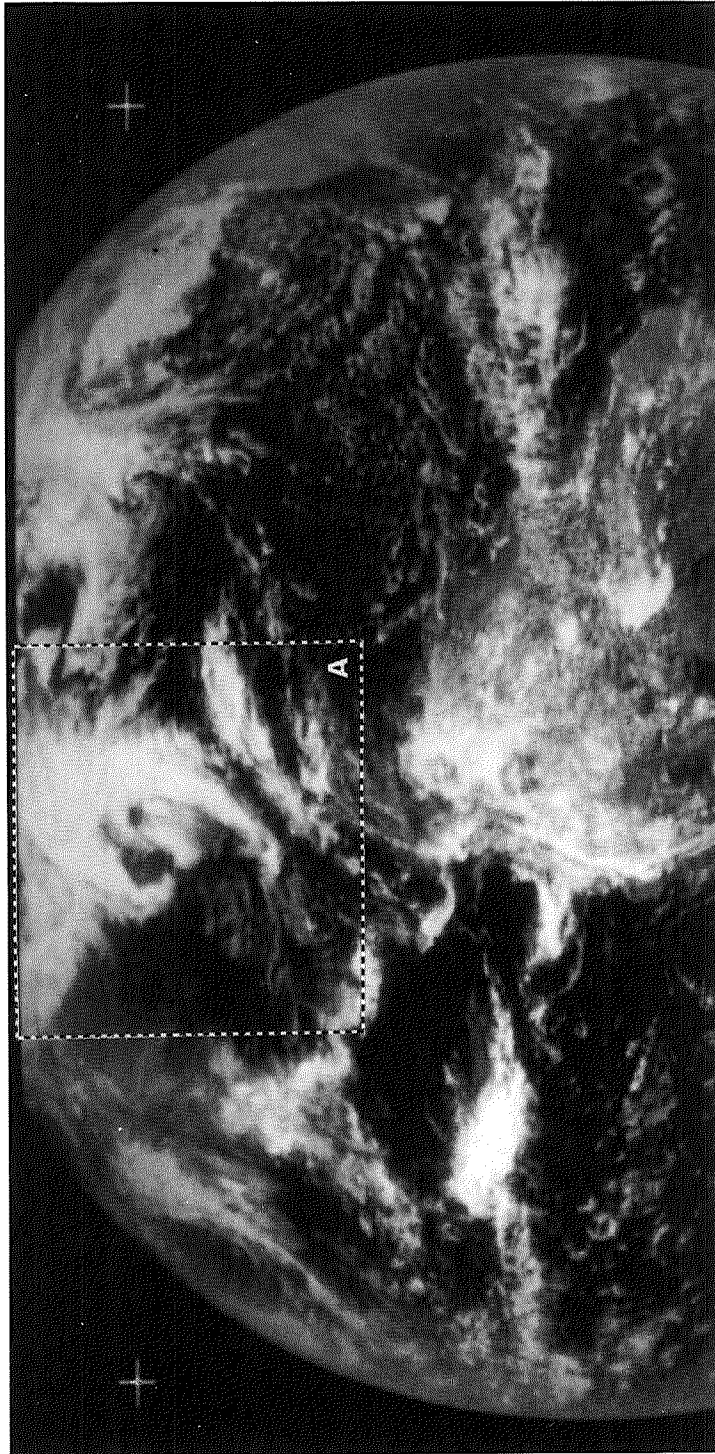
ATS-III MSSC 9 FEB 70 16 23 18 Z 3

MSSCC

10 Feb 70

SSP 69.23W 0.41S

Seq	End Time	Remarks
1	14 28 30	Half Scan
2	14 57 37	Half Scan
3	15 27 58	Half Scan
4	15 59 37	Half Scan
5	16 27 48	Half Scan
6	16 53 36	Half Scan Very Slight Noise
7	17 19 25	Half Scan Very Slight Dropout
8	17 45 14	Half Scan
9	18 11 05	Half Scan
10	18 41 00	Half Scan



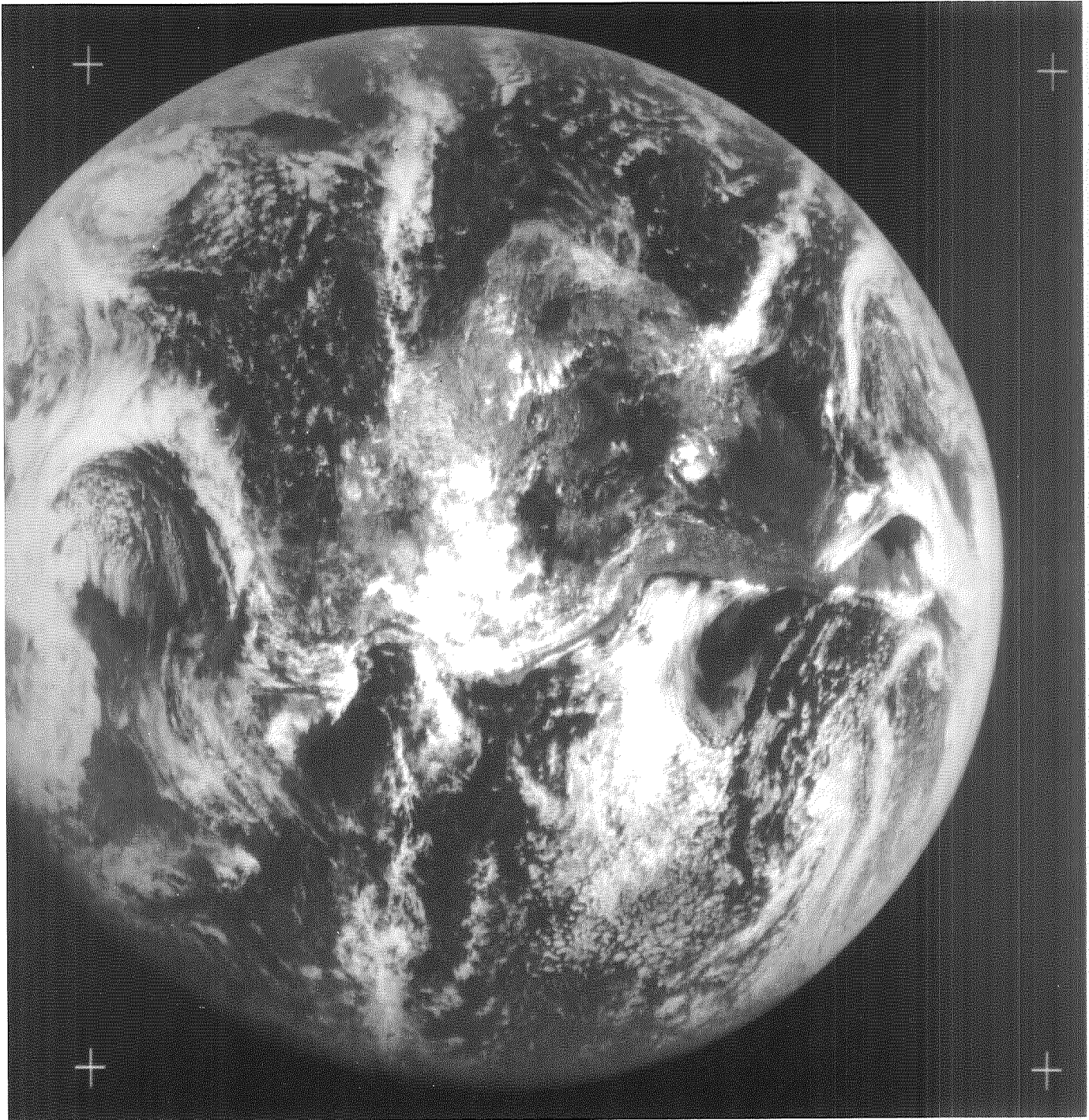
ATS-III MSSCC 10 FEB 70 16 53 36 Z 6

MSSCC

11 Feb 70

SSP 69.92W 0.41S

Seq	End Time	Remarks
1	14 36 23	
2	15 02 12	
3	15 28 01	
4	15 53 52	
5	16 19 40	
6	16 45 28	
7	17 11 20	
8	17 37 08	
9	18 02 57	
10	18 28 48	
11	18 54 37	
12	19 20 25	
13	20 01 39	Slight Noise
14	20 27 30	Dropout



ATS-III MSSCC 11 FEB 70 15 53 52 Z 4

MSSCC

14 Feb 70

SSP 72.00W 0.33S

Seq	End Time	Remarks
1	14 49 04	
2	15 14 55	
3	15 40 43	
4	16 06 32	
5	16 32 23	
6	16 58 12	
7	17 24 00	
8	17 49 07	
9	18 15 40	
10	18 41 28	
11	19 07 17	
12	19 37 09	
13	20 02 57	
14	20 28 48	
15	20 54 37	



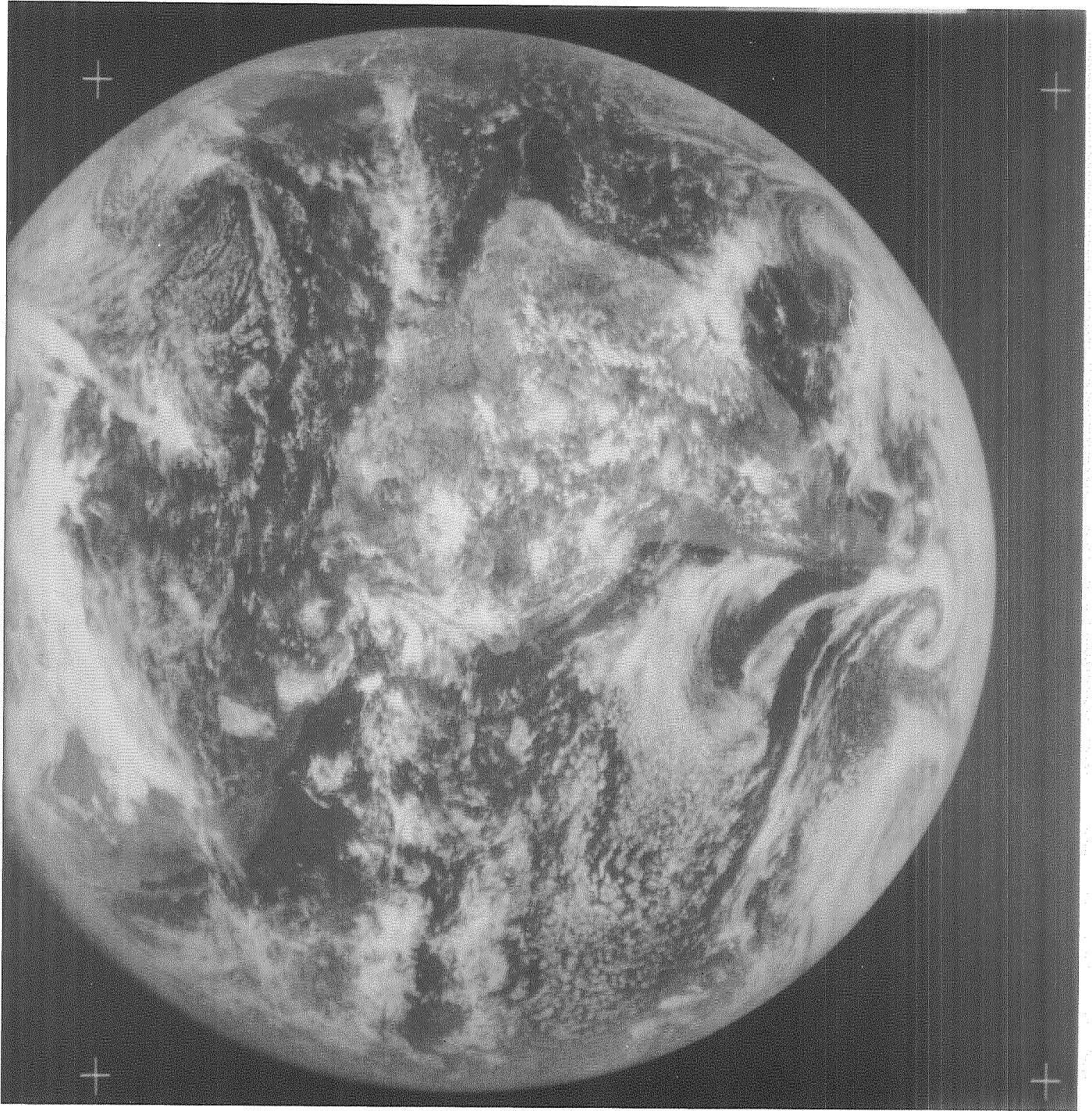
ATS-III MSSCC 14 FEB 70 16 58 12 Z 6

MSSCC

15 Feb 70

SSP 72.69W 0.33S

Seq	End Time	Remarks
1	15 33 06	
2	15 58 54	
3	16 24 43	
4	16 50 31	
5	17 16 23	
6	17 42 11	
7	18 08 00	
8	18 33 51	
9	18 59 39	
10	19 25 28	
11	19 51 16	
12	20 17 08	
13	20 42 56	



ATS-III MSSCC 15 FEB 70 16 50 31 Z 4

MSSCC

16 Feb 70

SSP 73.39W 0.34S

Seq	End Time	Remarks
1	15 21 58	
2	15 47 50	
3	16 13 38	
4	16 39 26	



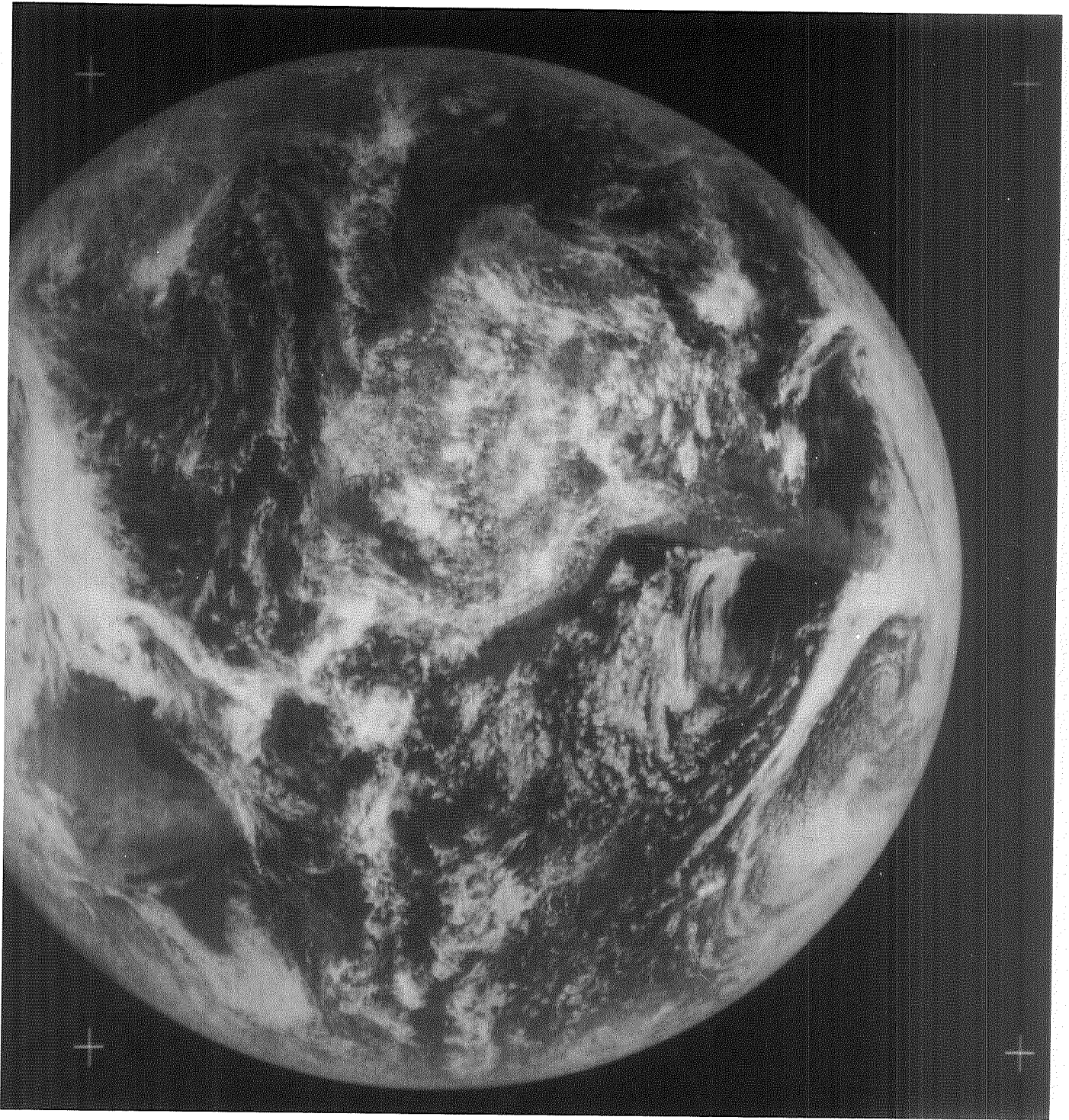
ATS-III MSSCC 16 FEB 70 16 39 26 Z 4

MSSCC

17 Feb 70

SSP 74.09W 0.34S

Seq	End Time	Remarks
1	14 55 57	
2	15 21 49	
3	15 47 37	
4	16 13 26	
5	16 39 15	
6	17 05 06	
7	17 30 54	
8	17 56 42	
9	18 22 33	
10	18 48 22	
11	19 14 11	
12	19 40 02	
13	20 05 51	
14	20 31 39	
15	20 57 28	



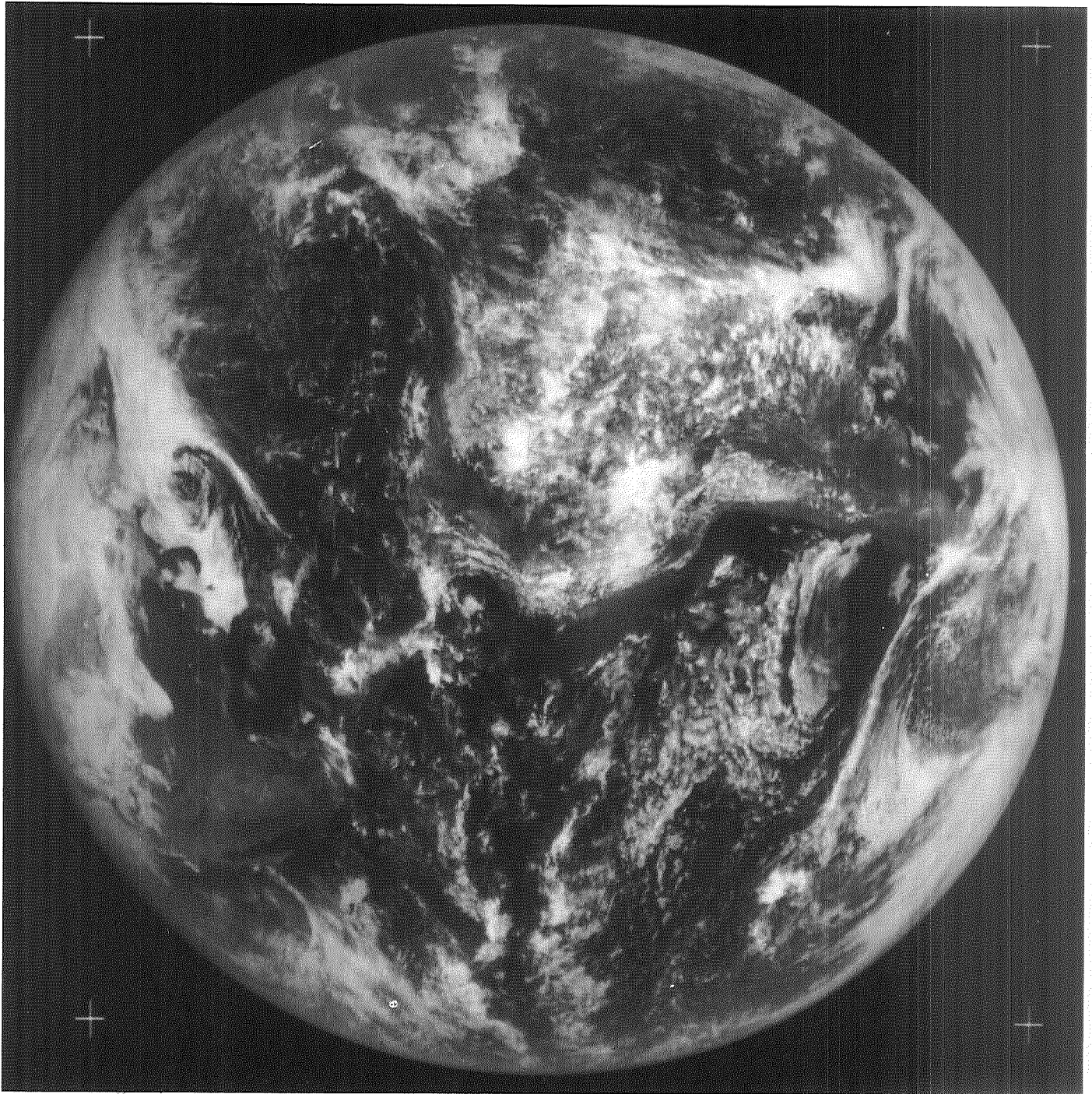
ATS-III MSSCC 17 FEB 70 17 30 54 Z 7

MSSCC

18 Feb 70

SSP 74.79W 0.34S

Seq	End Time	Remarks
1	15 17 51	
2	15 43 43	
3	16 09 34	
4	16 35 26	
5	17 01 17	
6	17 27 08	
7	17 53 01	
8	18 18 52	
9	18 44 44	
10	19 52 13	



ATS-III MSSCC 18 FEB 70 17 27 08 Z 6

MSSCC

22 Feb 70

SSP 78.22W 0.44S

Seq	End Time	Remarks
1	15 07 59	
2	15 33 47	
3	15 59 39	
4	16 25 30	
5	16 51 21	
6	17 17 13	
7	17 43 01	
8	18 08 53	
9	19 07 16	
10	19 33 07	
11	19 58 56	
12	20 24 50	
13	20 50 42	



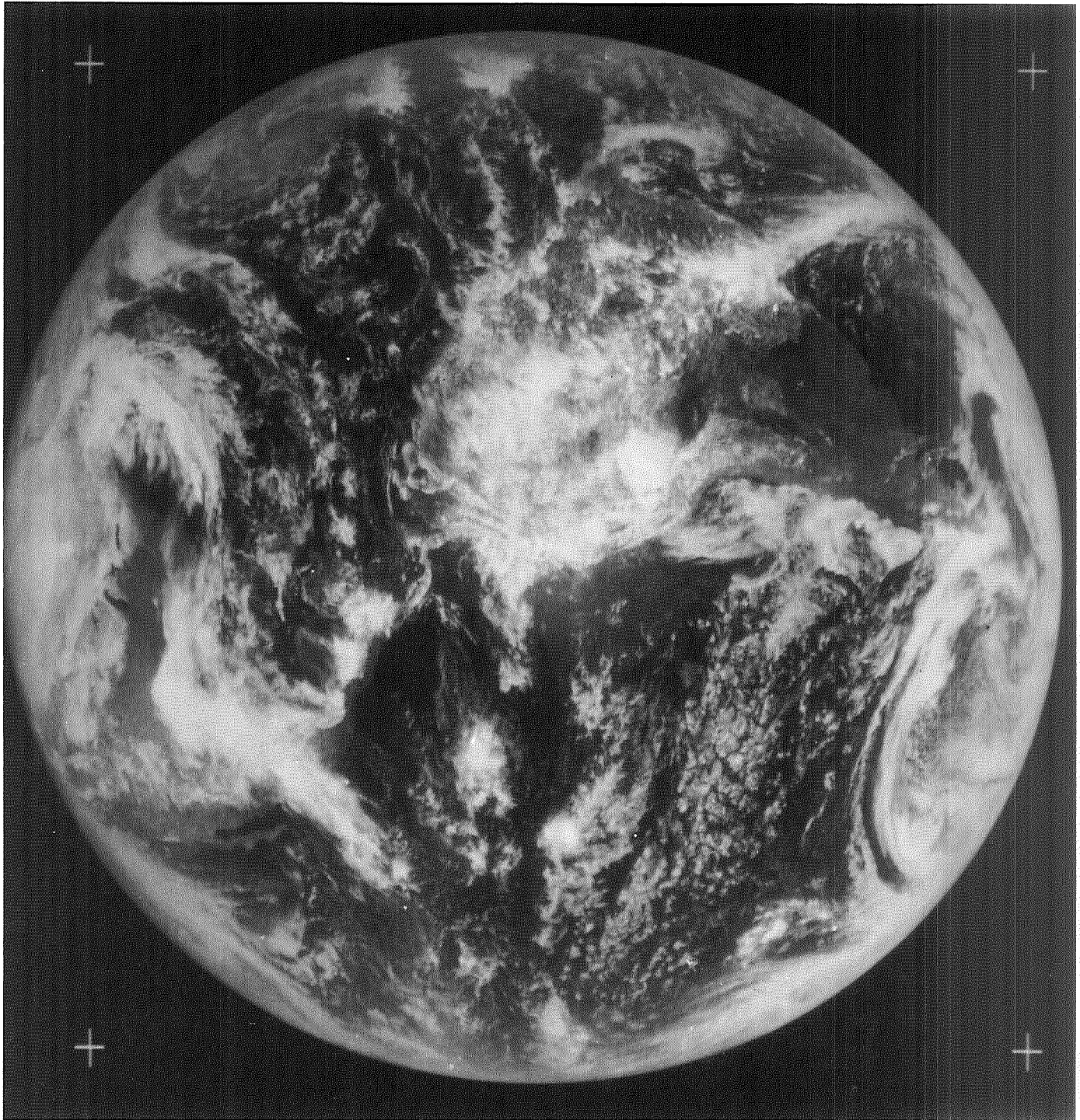
ATS-III MSSCC 22 FEB 70 17 17 13 Z 6

MSSCC

23 Feb 70

SSP 79.08W 0.44S

Seq	End Time	Remarks
1	15 31 41	
2	15 57 33	
3	16 23 24	
4	16 49 15	
5	17 15 03	
6	17 40 55	
7	18 06 46	
8	18 43 28	
9	19 13 25	
10	19 43 26	
11	20 09 17	
12	20 46 57	Dropout



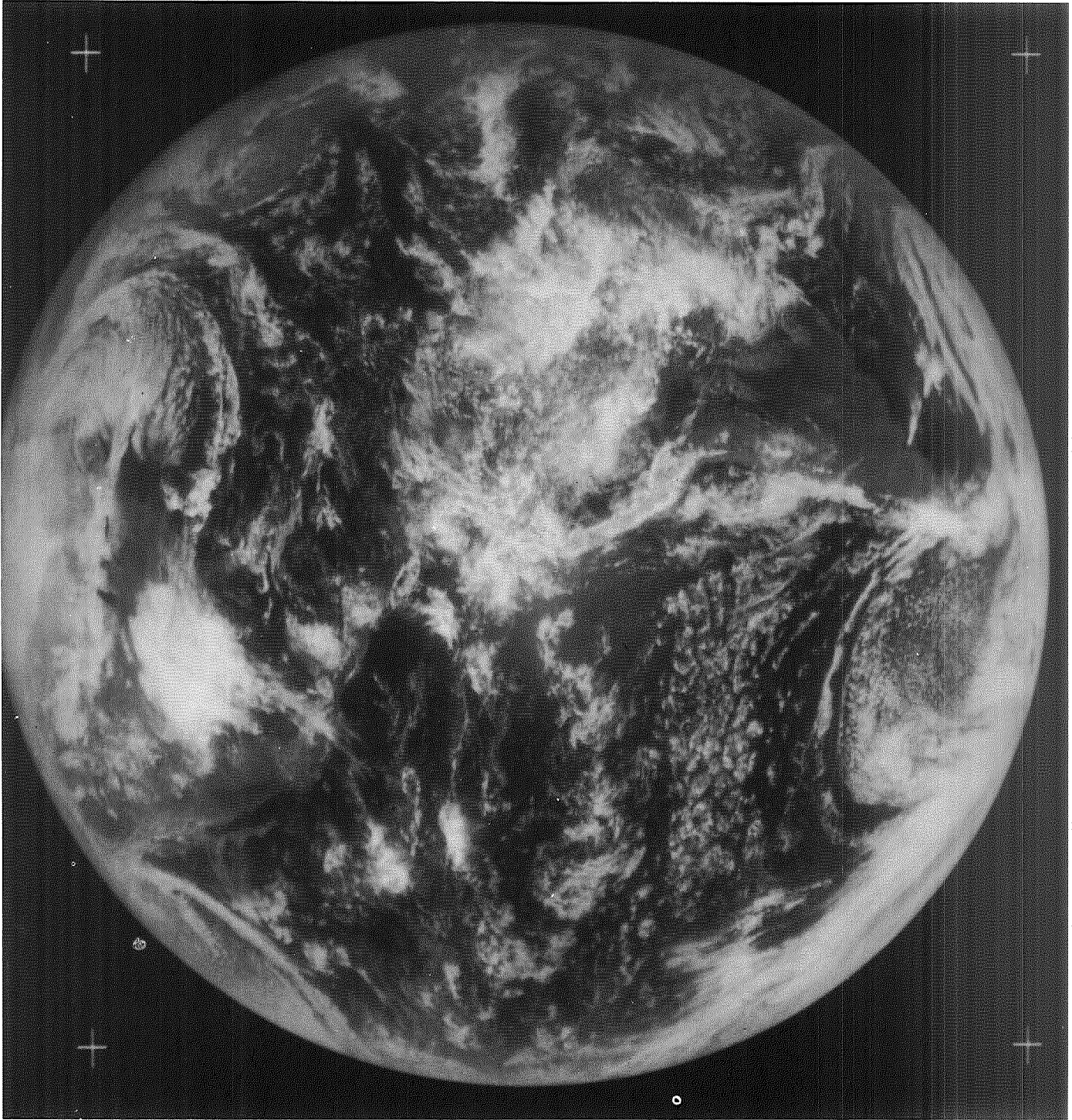
ATS-III MSSCC 23 FEB 70 17 40 55 Z 6

MSSCC

24 Feb 70

SSP 79.94W 0.44S

Seq	End Time	Remarks
1	14 44 23	
2	15 10 15	
3	15 36 06	
4	16 01 57	
5	16 27 49	Dropout
6	16 53 40	Dropout
7	17 19 31	
8	17 45 23	
9	18 11 14	
10	18 37 06	
11	19 02 57	Approx. 50 Line Dropout at line 500
12	19 28 49	
13	19 54 40	
14	20 20 32	
15	20 46 23	



ATS-III MSSCC 24 FEB 70 18 11 14 Z 9

MSSCC

28 Feb 70

SSP 83.37W 0.46S

Seq	End Time	Remarks
1	15 04 35	
2	15 30 25	
3	15 56 16	
4	16 22 07	
5	16 47 58	
6	17 13 49	
7	17 39 41	
8	18 05 29	
9	18 31 20	
10	18 57 12	
11	19 45 09	
12	20 17 39	Dropout
13	20 45 35	



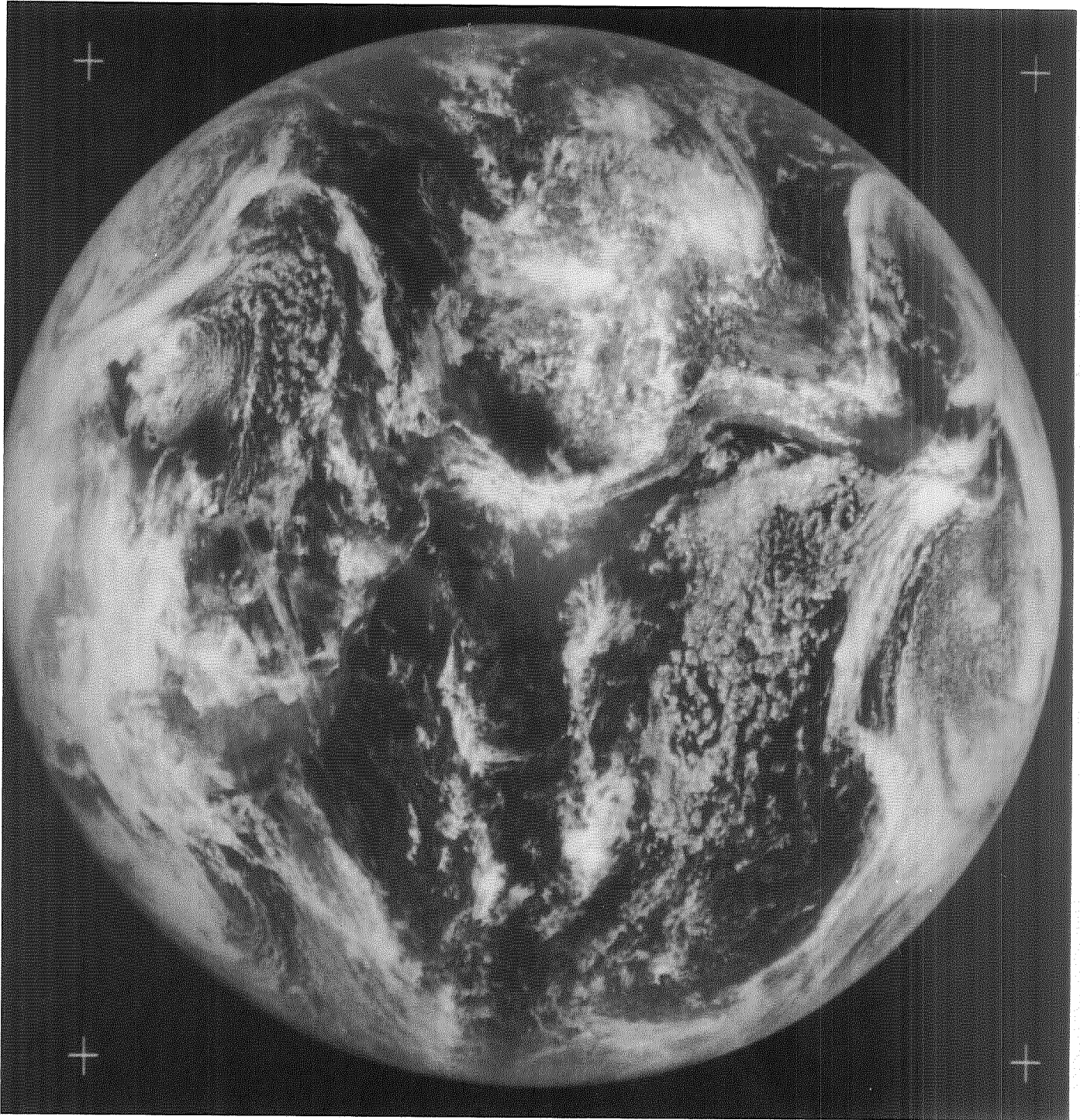
ATS-III MSSCC 28 FEB 70 17 13 49 Z 6

MSSCC

1 Mar 70

SSP 84.23W 0.46S

Seq	End Time	Remarks
1	15 19 23	
2	15 45 11	
3	16 11 02	
4	16 36 54	
5	17 02 45	Sync Problem
6	17 28 36	
7	17 54 26	
8	18 20 17	
9	18 46 08	
10	19 12 00	
11	19 37 51	
12	20 10 02	
13	20 35 53	



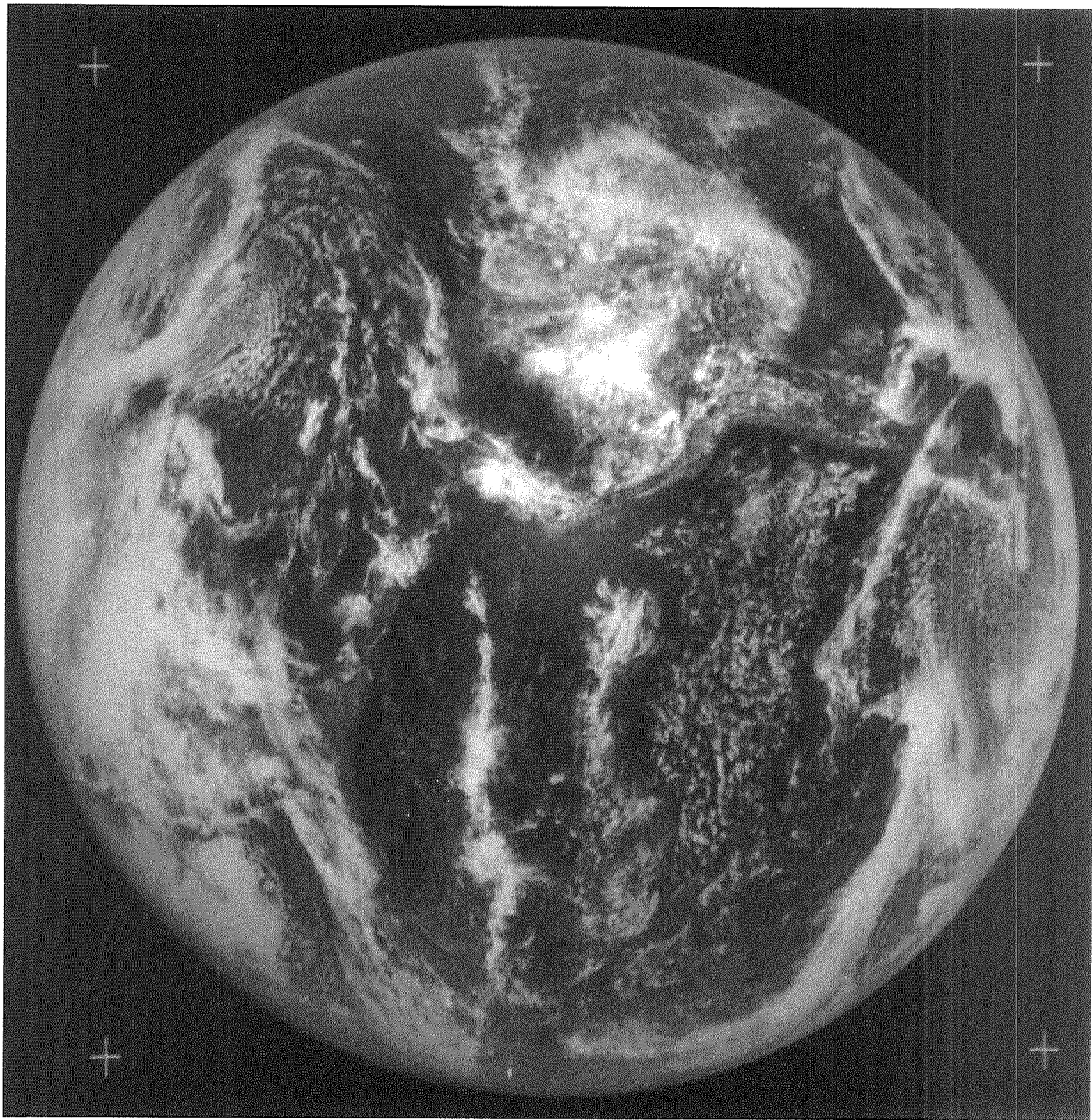
ATS-III MSSCC 1 MAR 70 17 28 36 Z 6

MSSCC

2 Mar 70

SSP 85.11W 0.50S

Seq	End Time	Remarks
1	17 25 39	
2	17 51 39	
3	18 17 42	
4	18 43 44	
5	19 09 44	
6	19 35 47	
7	20 01 48	
8	20 27 51	



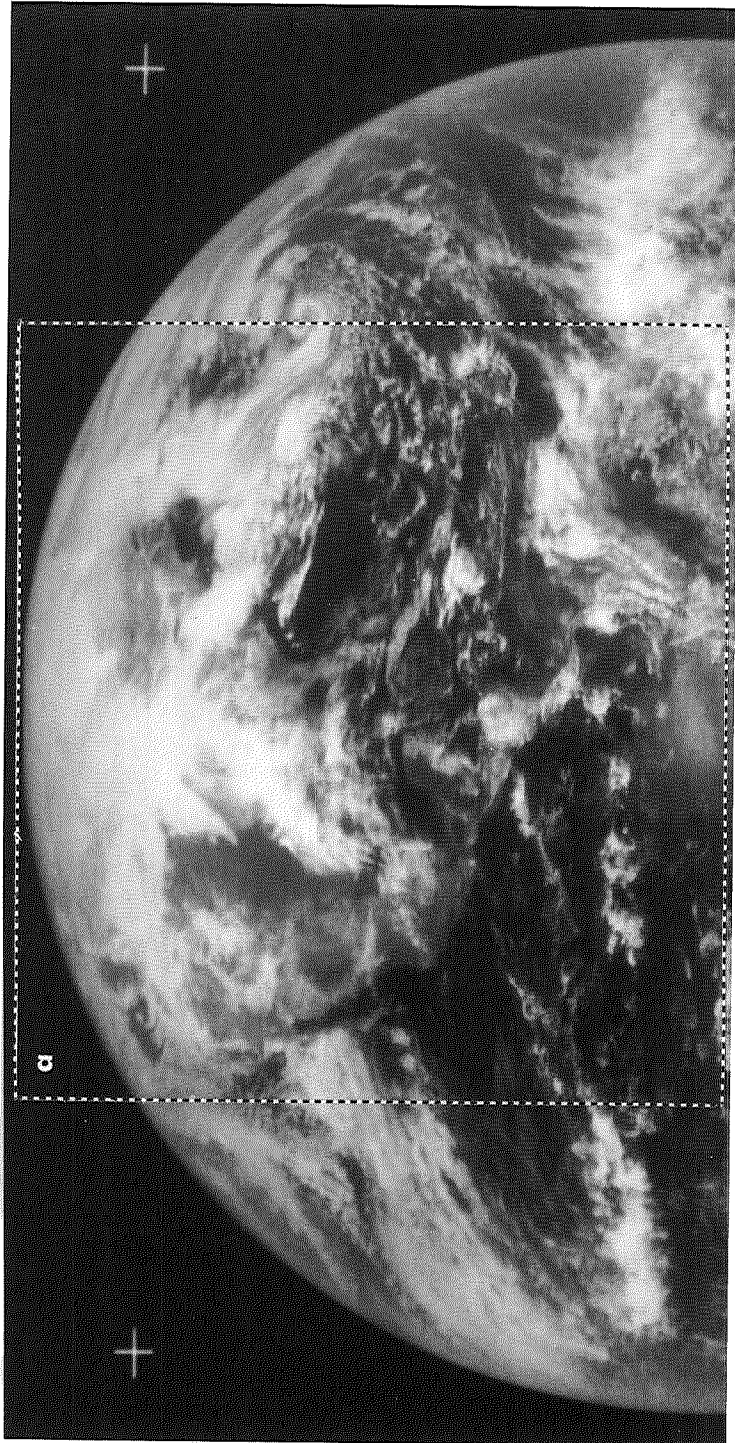
ATS-III MSSCC 2 MAR 70 17 25 39 Z 1

MSSCC

3 Mar 70

SSP 85.26W 0.51S

Seq	End Time	Remarks
1	15 01 18	Half Scan
2	15 14 15	Half Scan
3	15 27 30	Half Scan
4	15 40 30	Half Scan
5	15 54 22	Half Scan
6	16 07 21	Half Scan
7	16 20 21	Half Scan
8	16 33 18	Half Scan
9	16 46 55	Half Scan
10	16 59 52	Half Scan
11	17 12 49	Half Scan
12	17 25 52	Half Scan
13	17 38 55	Half Scan
14	17 52 22	Half Scan
15	18 05 35	Half Scan
16	18 18 55	Half Scan
17	18 31 58	Half Scan
18	18 45 04	Half Scan
19	18 58 05	Half Scan
20	19 11 11	Half Scan
21	19 25 49	Half Scan
22	19 38 52	Half Scan
23	19 52 01	Half Scan
24	20 04 49	Half Scan
25	20 17 58	Half Scan
26	20 30 59	Half Scan
27	20 43 58	Half Scan



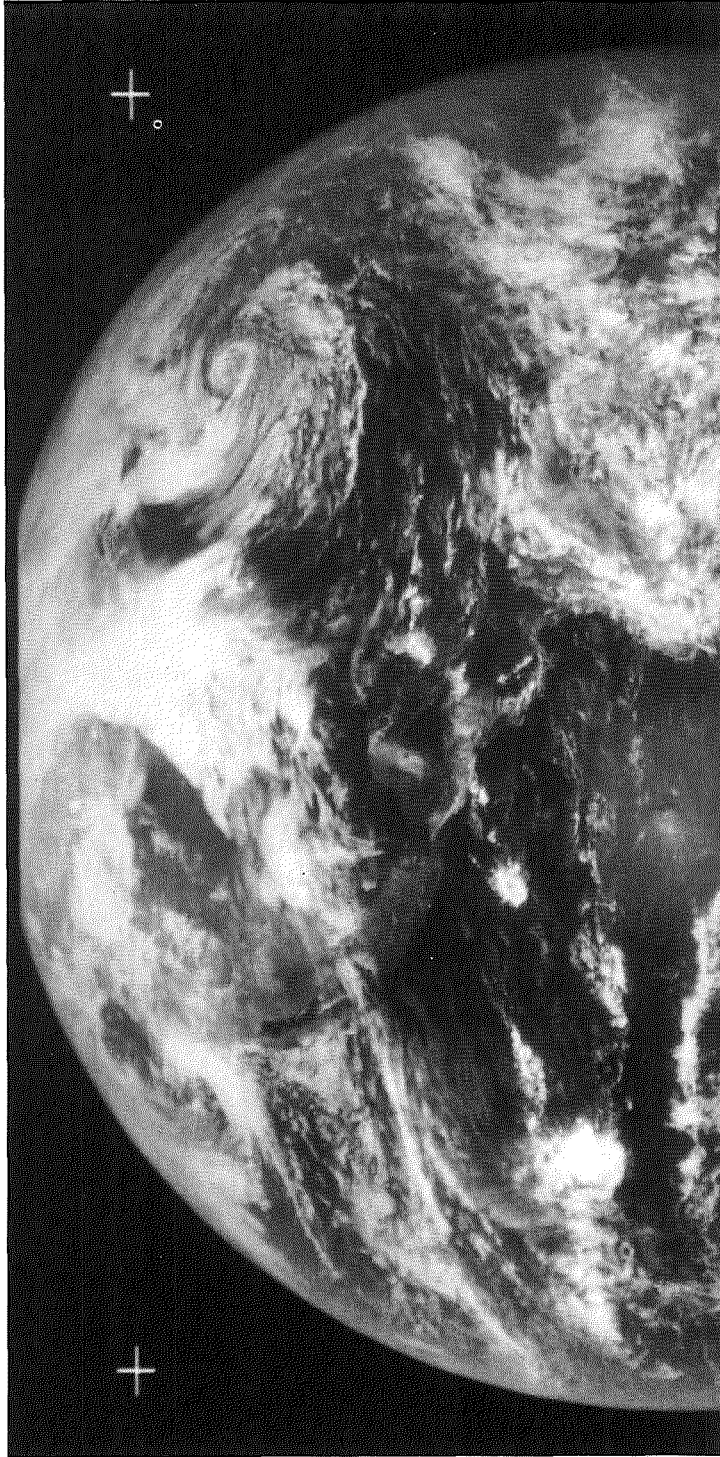
ATS-III MSSCC 3 MAR 70 17 38 55 Z 13

MSSCC

4 Mar 70

SSP 85.41W 0.51S

Seq	End Time	Remarks
1	14 34 33	Half Scan
2	14 47 49	Half Scan
3	15 00 46	Half Scan
4	15 13 43	Half Scan
5	15 26 45	Half Scan
6	15 39 50	Half Scan
7	15 52 47	Half Scan
8	16 05 44	Half Scan
9	16 18 50	Half Scan
10	18 41 58	Half Scan
11	18 54 58	Half Scan
12	19 07 57	Half Scan
13	19 21 10	Half Scan
14	19 34 10	Half Scan
15	19 47 10	Half Scan



ATS-III MSSCC 4 MAR 70 18 41 58 Z 10

MSSCC

7 Mar 70

SSP 85.12W 0.50S

Seq	End Time	Remarks
1	14 50 18	Half Scan
2	15 05 41	Half Scan
3	15 20 46	Half Scan Slight Noise
4	15 35 53	Half Scan
5	15 51 01	Half Scan Eclipse Visible
6	16 06 06	Half Scan Eclipse Visible
7	16 21 14	Half Scan Eclipse Visible
8	16 36 21	Half Scan Eclipse Visible
9	16 51 26	Half Scan Eclipse Visible
10	17 06 31	Half Scan Eclipse Visible
11	17 17 29	Half Scan Eclipse Visible
12	17 28 46	Half Scan Eclipse Visible
13	17 39 50	Half Scan Eclipse Visible Slight Sync Loss
14	18 14 20	Half Scan Eclipse Visible
15	18 25 37	Half Scan Eclipse Visible
16	18 38 34	Half Scan Eclipse Visible
17	18 49 38	Half Scan Eclipse Visible
18	19 00 41	Half Scan Eclipse Visible
19	19 11 27	Half Scan Eclipse Visible Slight Noise
20	19 22 19	Half Scan Eclipse Visible
21	19 33 12	Half Scan Eclipse Visible

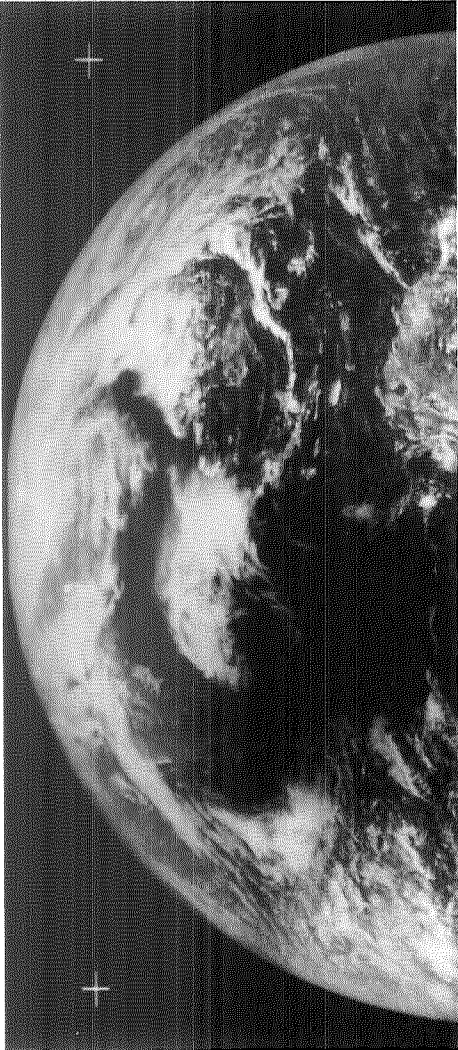
The ATS-III MSSCC recorded a unique picture sequence of the 7 March 1970 solar eclipse umbra shadow as it moved from the South Pacific, across Mexico, up the east coast of the United States and off the picture horizon. Because of this unusual event, an 11 picture sequence of full disk and corresponding 4X digitized enlargements, beginning with the umbra over Mexico, is shown on the following pages.



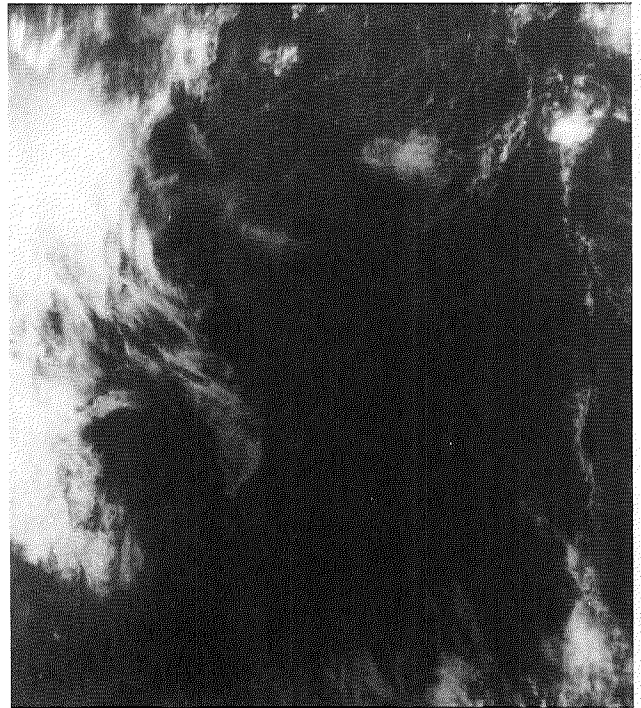
ATS-III MSSCC 7 MAR 70 17 17 29 Z 11



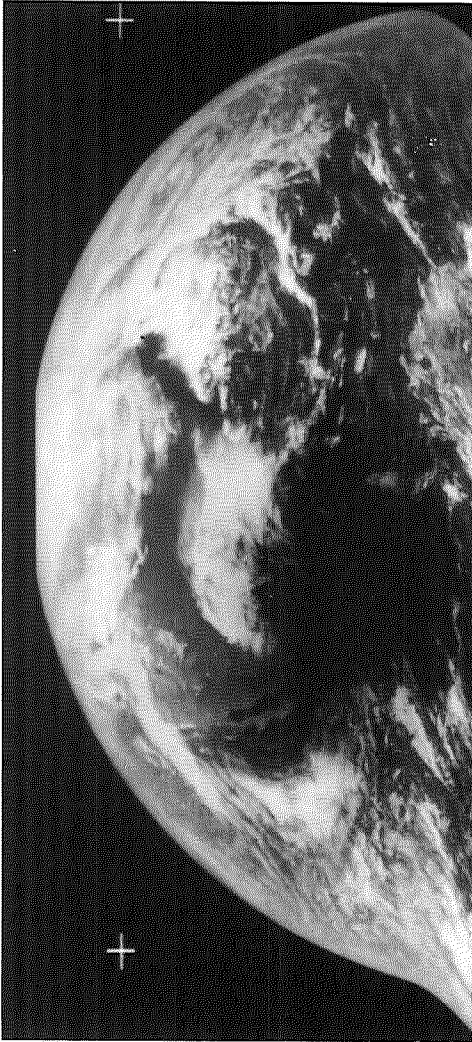
ATS-III MSSCC 7 MAR 70 17 17 29 Z 11A



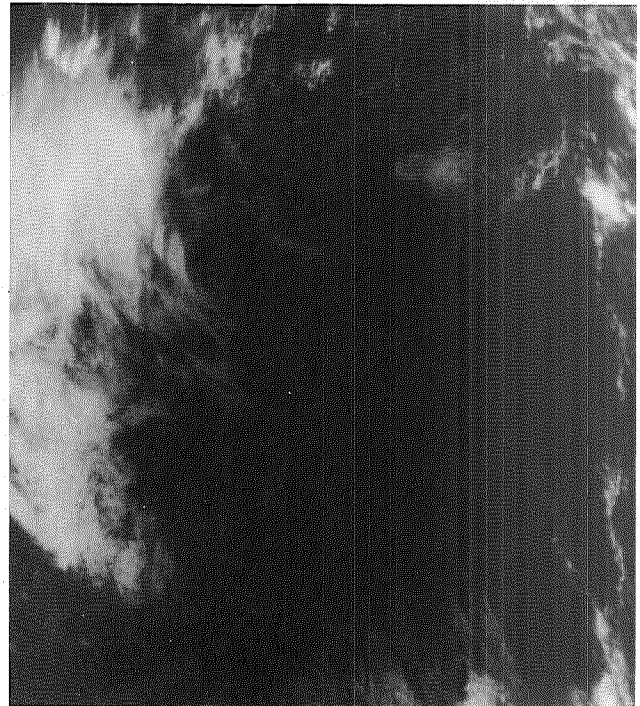
ATS-III MSSCC 7 MAR 70 17 28 46 Z 12



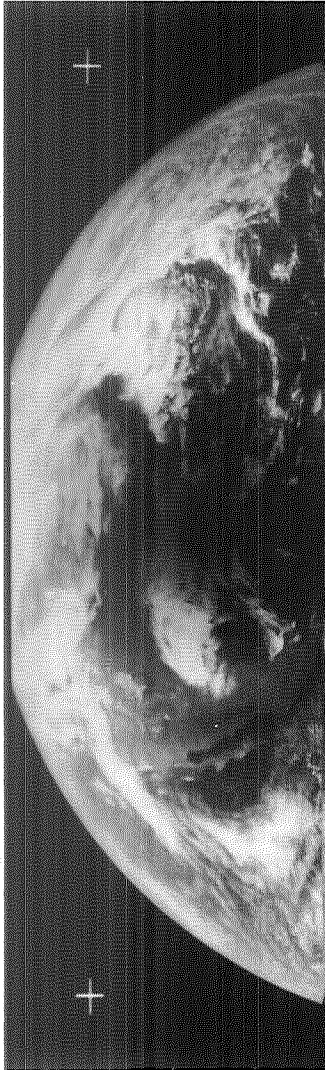
ATS-III MSSCC 7 MAR 70 17 28 46 Z 12A



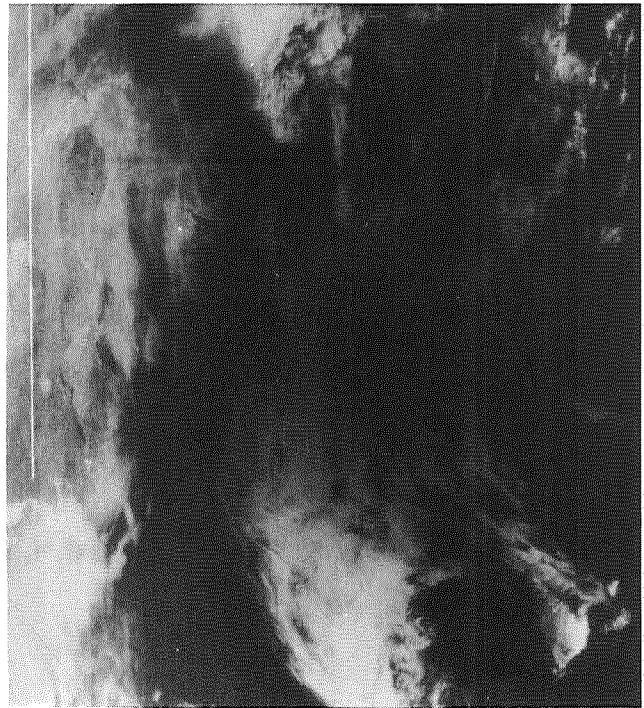
ATS-III MSSCC 7 MAR 70 17 39 50 Z 13



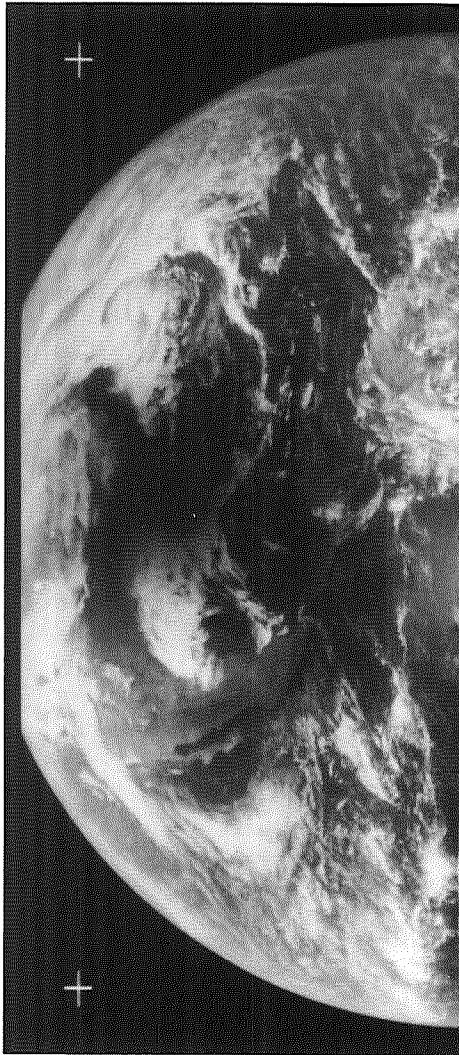
ATS-III MSSCC 7 MAR 70 17 39 50 Z 13A



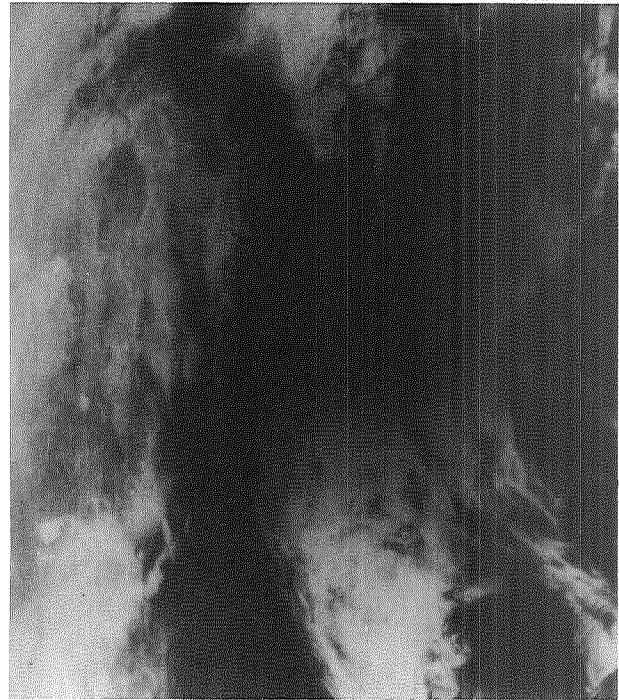
ATS-III MSSCC 7 MAR 70 18 14 20 Z 14



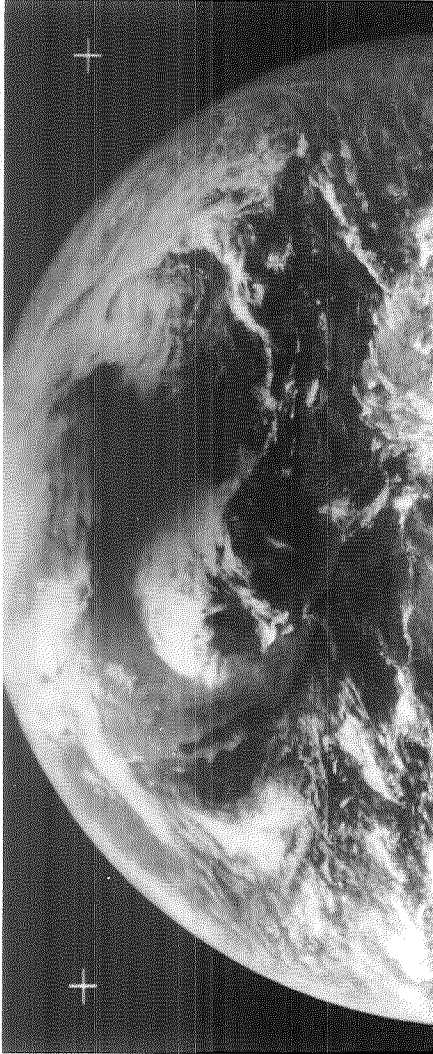
ATS-III MSSCC 7 MAR 70 18 14 20 Z 14A



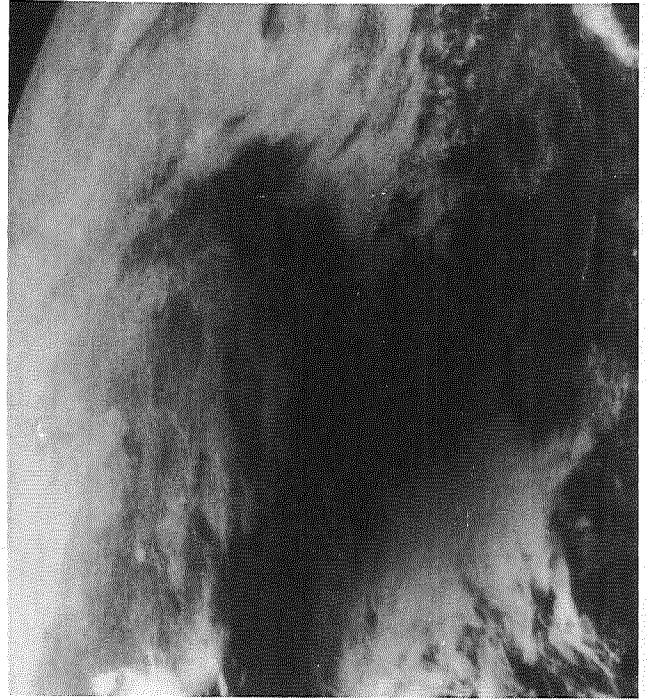
ATS-III MSSCC 7 MAR 70 18 25 37 Z 15



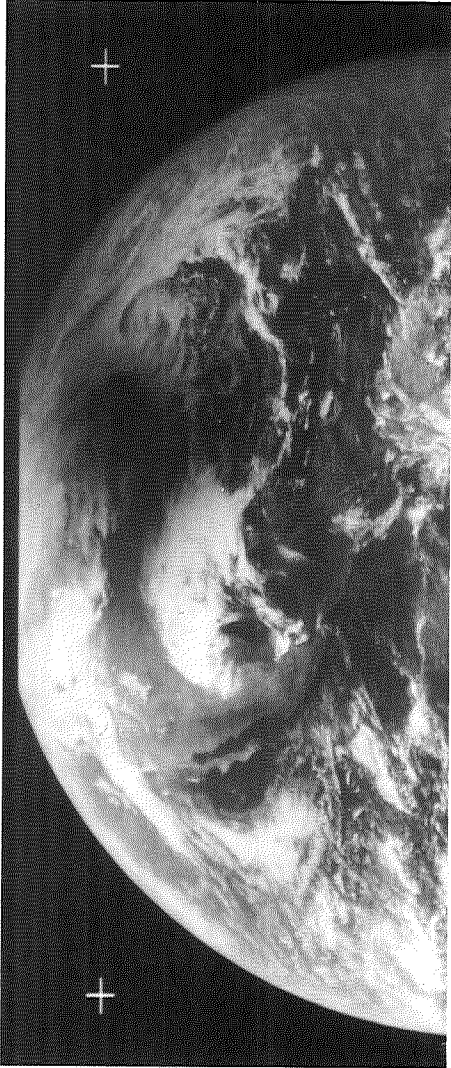
ATS-III MSSCC 7 MAR 70 18 25 37 Z 15A



ATS-III MSSCC 7 MAR 70 18 38 34 Z 16



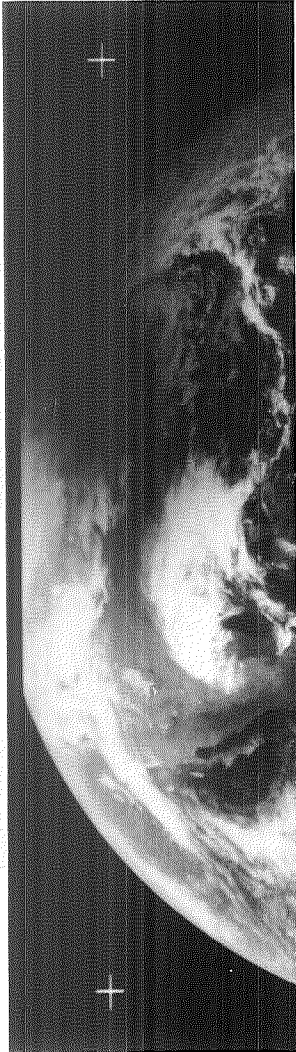
ATS-III MSSCC 7 MAR 70 18 38 34 Z 16A



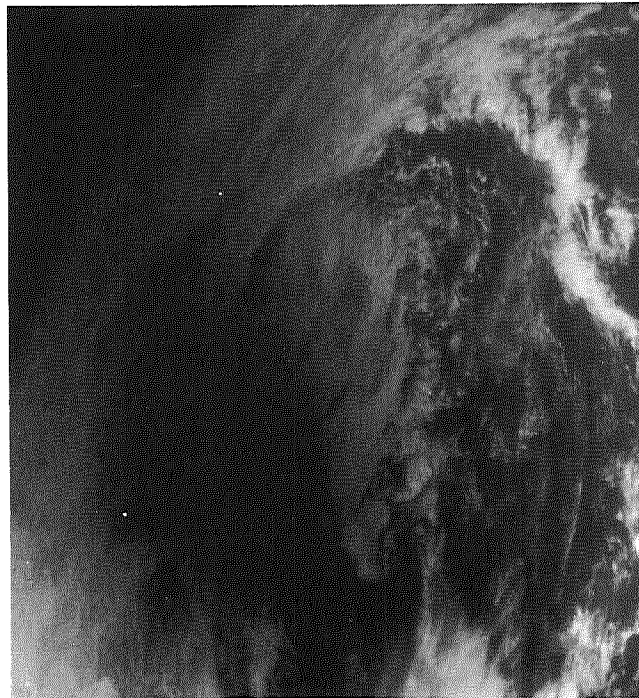
ATS-III MSSCC 7 MAR 70 18 49 38 Z 17



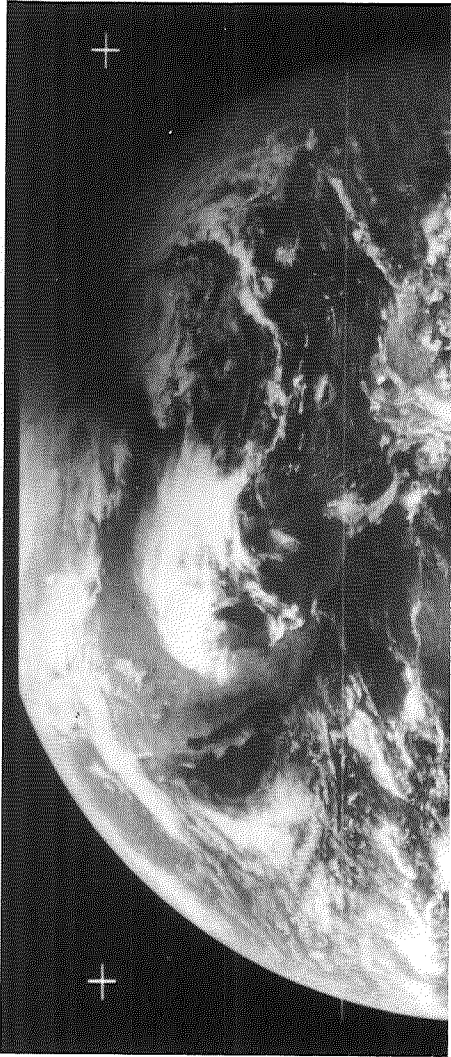
ATS-III MSSCC 7 MAR 70 18 49 38 Z 17A



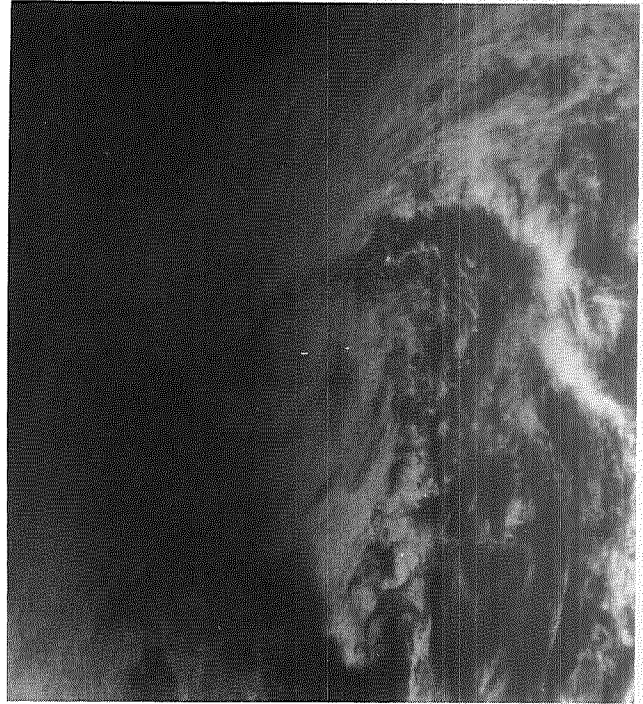
ATS-III MSSCC 7 MAR 70 19 00 41 Z 18



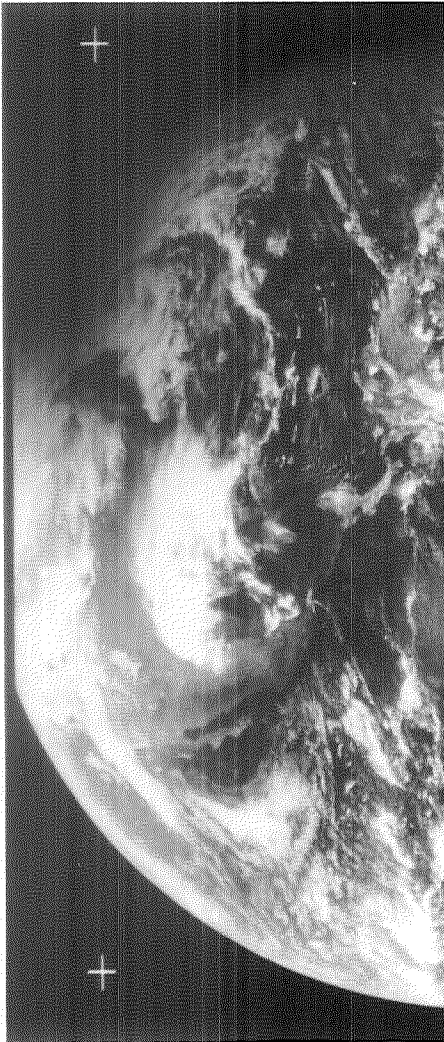
ATS-III MSSCC 7 MAR 70 19 00 41 Z 18A



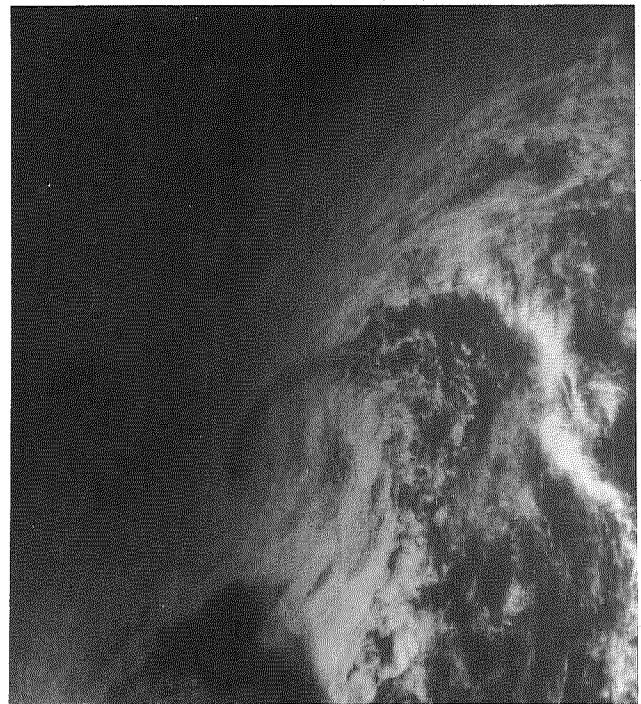
ATS-III MSSCC 7 MAR 70 19 11 27 Z 19



ATS-III MSSCC 7 MAR 70 19 11 27 Z 19A



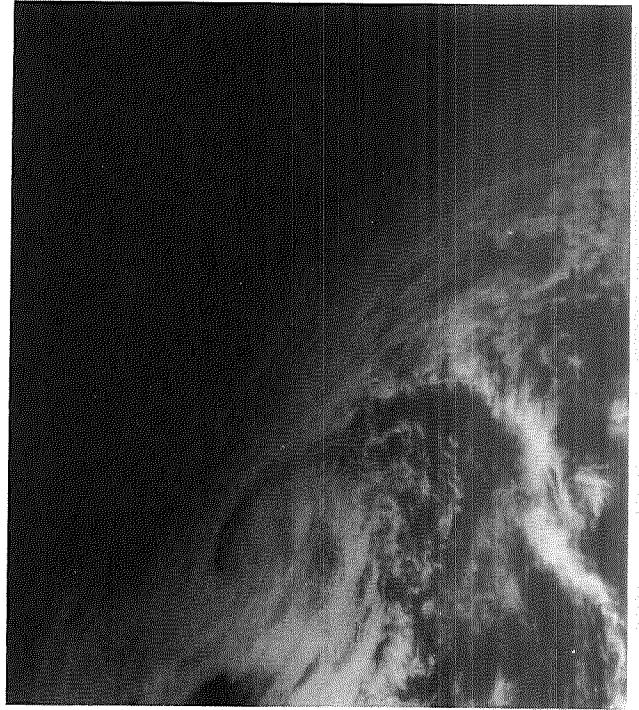
ATS-III MSSCC 7 MAR 70 19 22 19 Z 20



ATS-III MSSCC 7 MAR 70 19 22 19 Z 20A



ATS-III MSSCC 7 MAR 70 19 33 12 Z 21



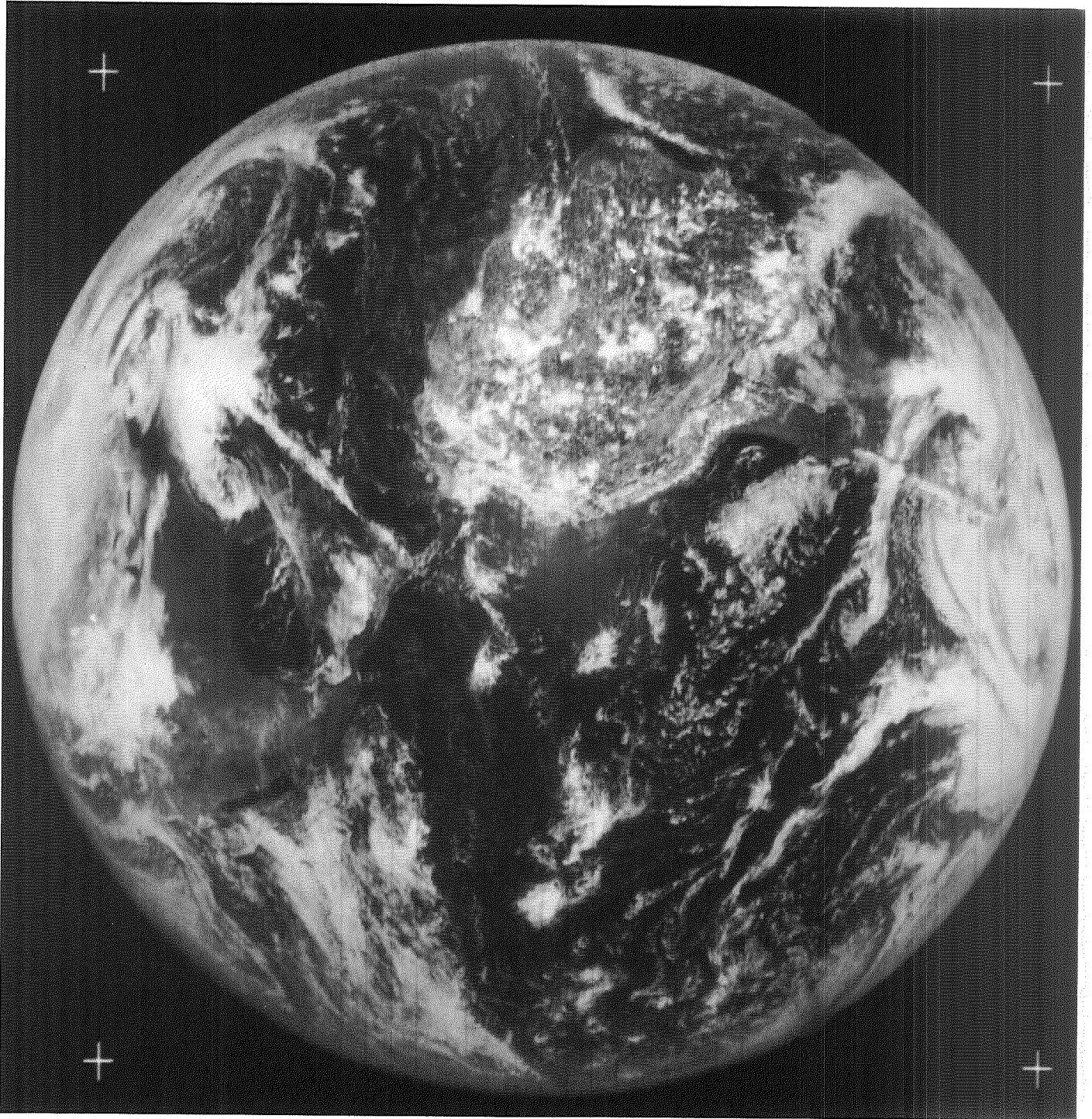
ATS-III MSSCC 7 MAR 70 19 33 12 Z 21A

MSSCC

9 Mar 70

SSP 84.67W 0.52S

Seq	End Time	Remarks
1	15 12 32	Phasing Error Dropout
2	15 38 39	Phasing Error Slight Noise
3	16 04 45	Phasing Error Dropout
4	16 30 51	Phasing Error
5	16 57 02	Phasing Error Dropout
6	17 23 04	Phasing Error Dropout
7	17 52 23	Phasing Error Slight Noise
8	18 18 29	Phasing Error Slight Noise
9	18 44 35	Phasing Error
10	19 10 41	Phasing Error
11	19 36 48	Phasing Error



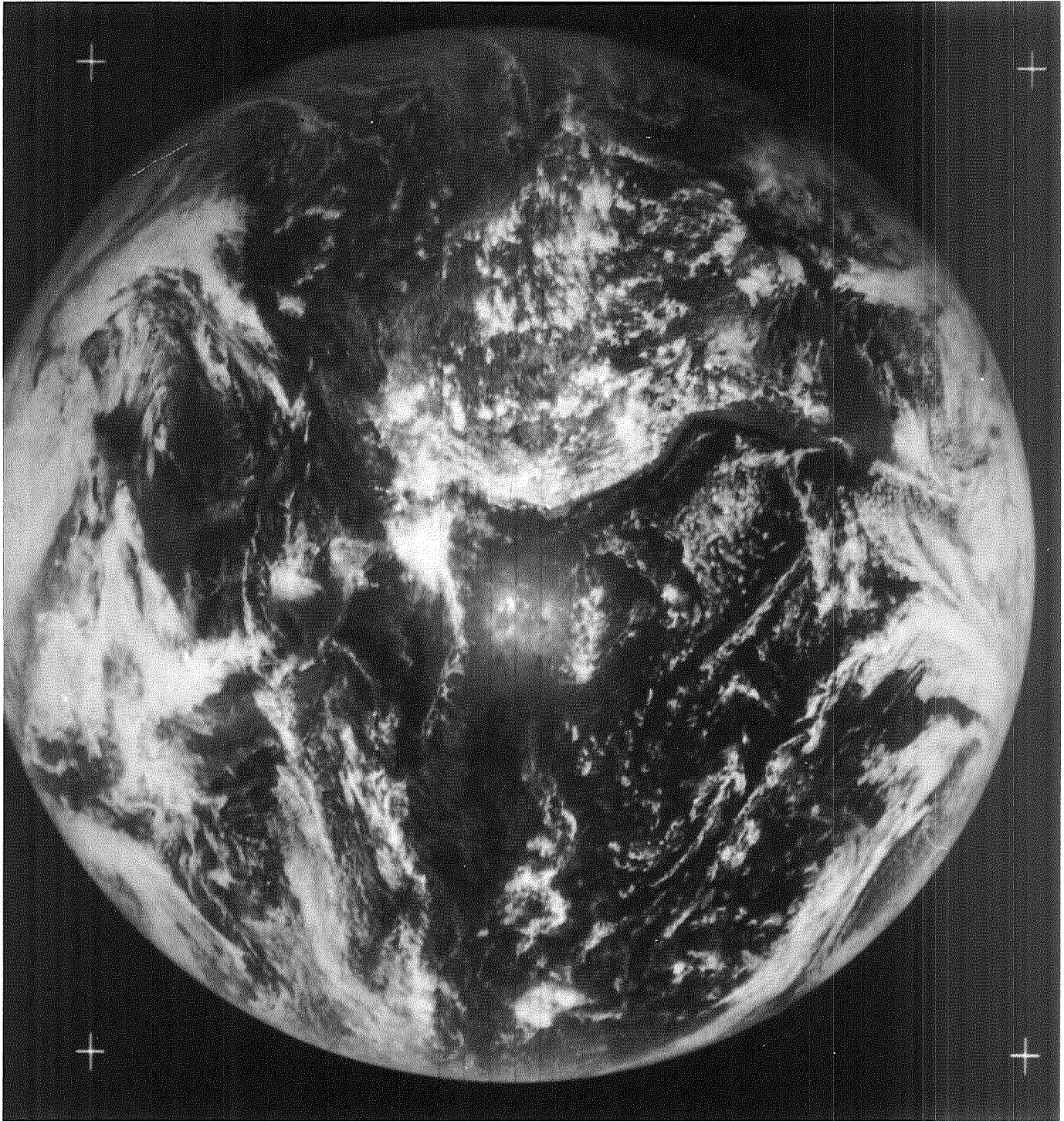
ATS-III MSSCC 9 MAR 70 17 23 04 Z 6

MSSCC

10 Mar 70

SSP 84.45W 0.51S

Seq	End Time	Remarks
1	14 55 05	Slight Noise Slight Phasing Error
2	15 20 54	Slight Noise Slight Phasing Error
3	15 47 00	Slight Phasing Error
4	16 13 10	Slight Phasing Error
5	16 39 16	Slight Phasing Error
6	17 05 22	Slight Phasing Error
7		No Data
8	17 57 35	Slight Phasing Error
9	18 23 41	Slight Phasing Error
10	18 49 47	Few Dropouts
11	19 15 57	Few Dropouts



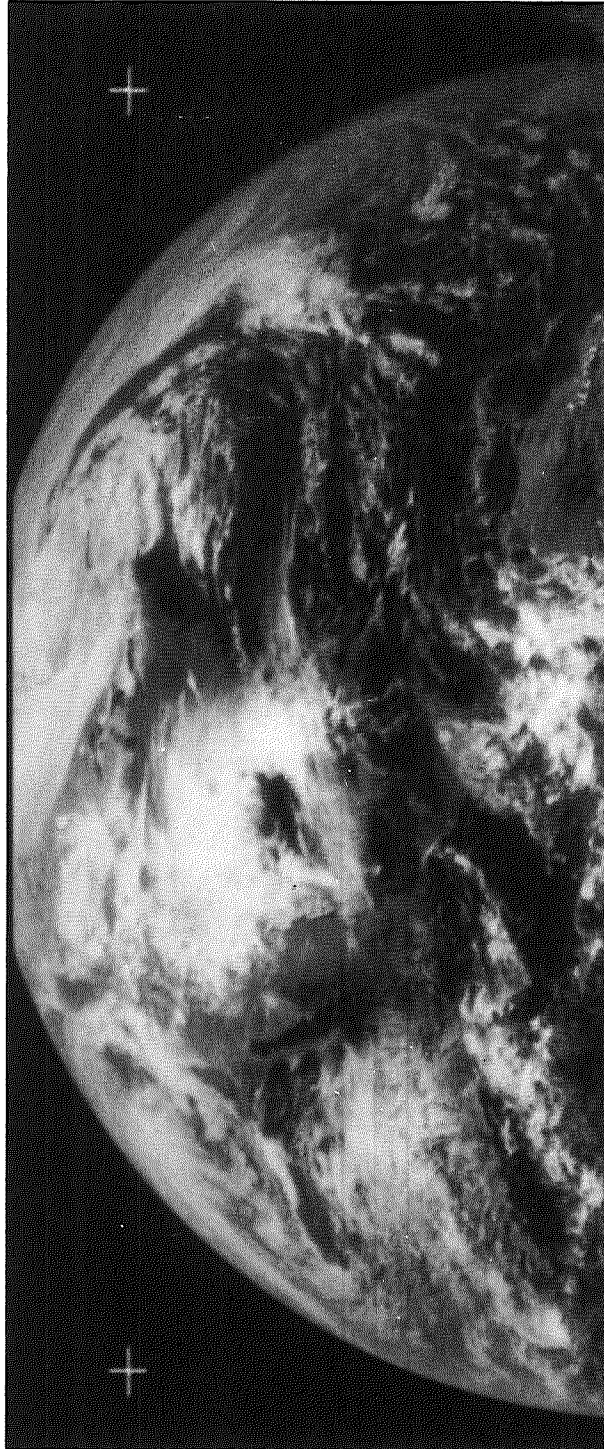
ATS-III MSSCC 10 MAR 70 18 49 47 Z 10

MSSCC

11 Mar 70

SSP 84.22W 0.52S

Seq	End Time	Remarks
1	15 03 43	Slight Sync Problem
2	15 29 49	Slight Sync Problem
3	15 55 55	Slight Sync Problem
4	16 22 02	Slight Sync Problem Some Noise
5	17 04 33	Approx 200 Line Dropout at line 1000
6	17 22 01	Half Scan Slight Sync Problem
7	17 34 52	Half Scan Some Voltage Change
8	17 45 57	Half Scan Sync Problem Dropouts
9	17 56 50	Half Scan
10	18 18 47	Half Scan Sync Problem Dropouts Time Code in Pic
11	18 30 00	Half Scan Some Noise
12	18 50 38	Half Scan
13	19 01 33	Half Scan
14	19 13 51	Half Scan
15	19 29 23	Half Scan
16	19 40 22	Half Scan



ATS-III MSSCC 11 MAR 70 18 30 00 Z 11

MSSCC

14 Mar 70

SSP 83.55W 0.55S

Seq	End Time	Remarks
1	14 43 52	Slight Sync Problem
2	15 09 59	Slight Sync Problem
3	15 36 05	Slight Sync Problem
4	16 02 11	Slight Sync Problem
5	16 28 18	Slight Sync Problem
6	16 54 24	Slight Sync Problem
7	17 20 30	Slight Sync Problem
8	17 46 36	Slight Sync Problem
9	18 12 46	Slight Sync Problem
10	18 38 52	Slight Sync Problem
11	19 04 58	Slight Sync Problem
12	19 31 04	Slight Sync Problem



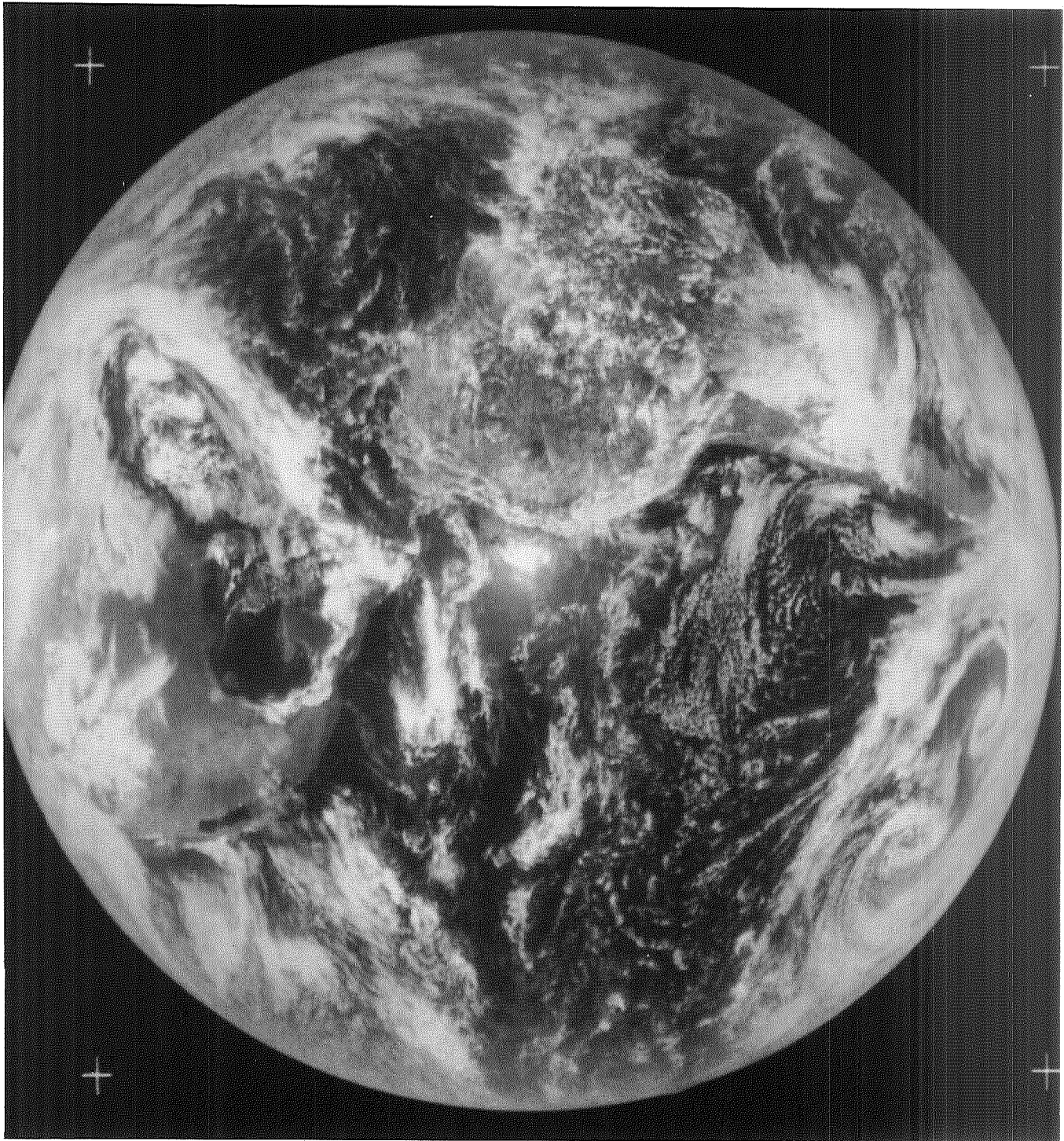
ATS-III MSSCC 14 MAR 70 18 38 52 Z 10

MSSCC

15 Mar 70

SSP 83.33W 0.55S

Seq	End Time	Remarks
1	15 37 22	Some Noise Slight Sync Problem
2	16 03 27	Slight Sync Problem
3	16 29 33	Slight Sync Problem
4	16 55 39	Slight Sync Problem
5	17 21 46	Slight Sync Problem
6	17 47 52	Slight Sync Problem
7	18 13 18	Slight Sync Problem
8	18 40 05	Slight Sync Problem



ATS-III MSSCC 15 MAR 70 17 47 52 Z 6

MSSCC

16 Mar 70

SSP 83.11W 0.56S

Seq	End Time	Remarks
1	15 28 34	Some Noise Slight Sync Problem
2	15 54 37	Some Noise Slight Sync Problem
3	16 20 43	Some Noise Slight Sync Problem
4	16 46 53	Some Noise Slight Sync Problem
5	17 12 59	Some Noise Slight Sync Problem
6	17 39 05	Some Noise Slight Sync Problem



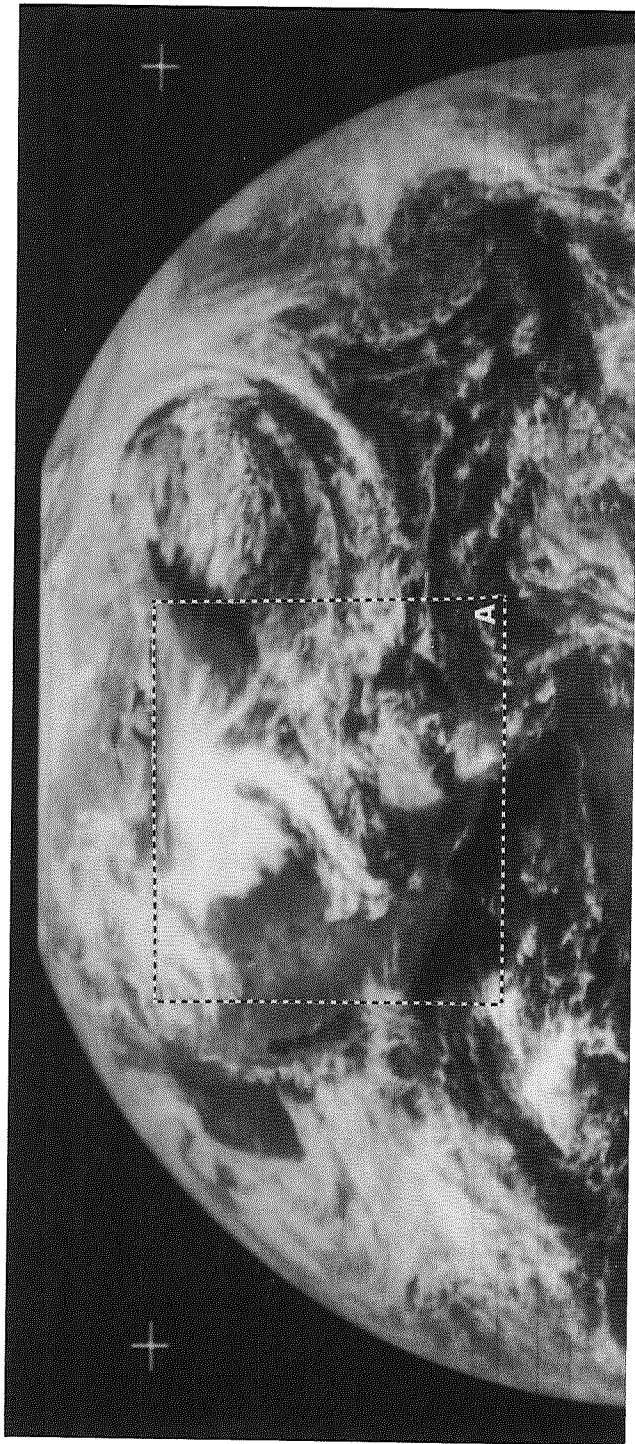
ATS-III MSSCC 16 MAR 70 17 39 05 Z 6

MSSCC

17 Mar 70

SSP 82.89W 0.57S

Seq	End Time	Remarks
1	14 57 30	Some Noise
2	15 09 46	Half Scan Some Noise
3	15 20 46	Half Scan Some Noise
4	15 31 34	Half Scan Some Noise
5	15 42 34	Half Scan Some Noise
6	15 53 23	Half Scan Some Noise
7	16 04 16	Half Scan Some Noise
8	16 15 06	Half Scan Some Noise
9	16 25 55	Half Scan Some Noise
10	16 36 42	Half Scan Some Noise
11	16 47 35	Half Scan Some Noise
12	16 58 24	Half Scan Some Noise
13	17 09 17	Half Scan Some Noise
14	17 20 06	Half Scan Some Noise
15	17 30 59	Half Scan Some Noise
16	17 41 47	Half Scan Some Noise
17	17 52 44	Half Scan Some Noise
18	18 03 37	Half Scan Some Noise
19	18 14 30	Half Scan Some Noise
20	18 25 22	Half Scan Some Noise
21	18 36 17	Half Scan Some Noise
22	18 47 07	Half Scan Some Noise
23	18 58 00	Half Scan Some Noise
24	19 08 52	Half Scan Some Noise
25	19 20 03	Half Scan Some Noise
26	19 30 55	Half Scan Some Noise
27	19 41 48	Half Scan Some Noise
28	19 52 56	Half Scan Some Noise
29	20 03 48	Half Scan Some Noise
30	20 14 40	Half Scan Some Noise
31	20 25 42	Half Scan Some Noise
32	20 36 35	Half Scan Some Noise
33	20 47 27	Half Scan Some Noise
34	20 58 19	Half Scan Some Noise



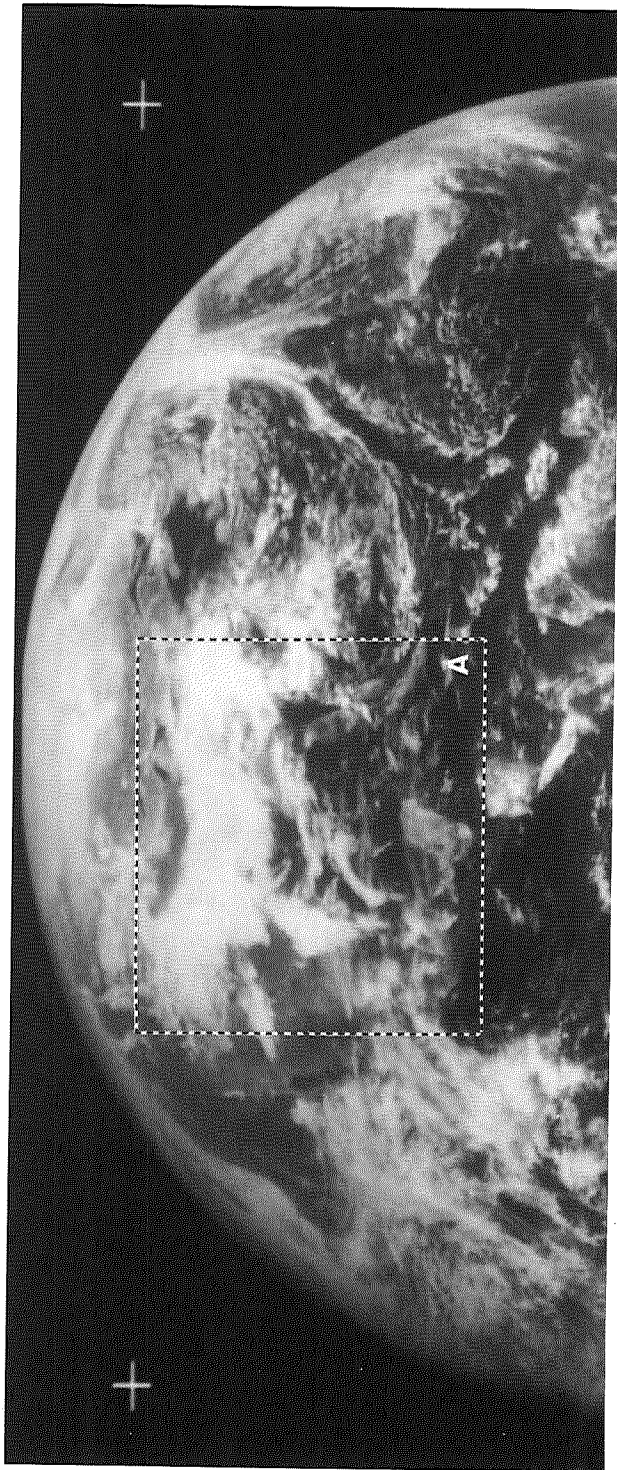
ATS-III MSSCC 17 MAR 70 18 03 37 Z 18

MSSCC

18 Mar 70

SSP 82.67W 0.57S

Seq	End Time	Remarks
1	14 40 25	Half Scan
2	15 06 31	Half Scan Some Noise
3	15 32 38	Half Scan
4	15 58 44	Half Scan
5	16 24 50	Half Scan
6	16 50 57	Half Scan
7	17 17 03	Half Scan
8	17 43 09	Half Scan
9	18 09 15	Half Scan Some Noise
10	18 35 25	Half Scan
11	19 01 31	Half Scan
12	19 27 37	Half Scan
13	19 53 43	Half Scan
14	20 19 50	Half Scan
15	20 45 56	Half Scan



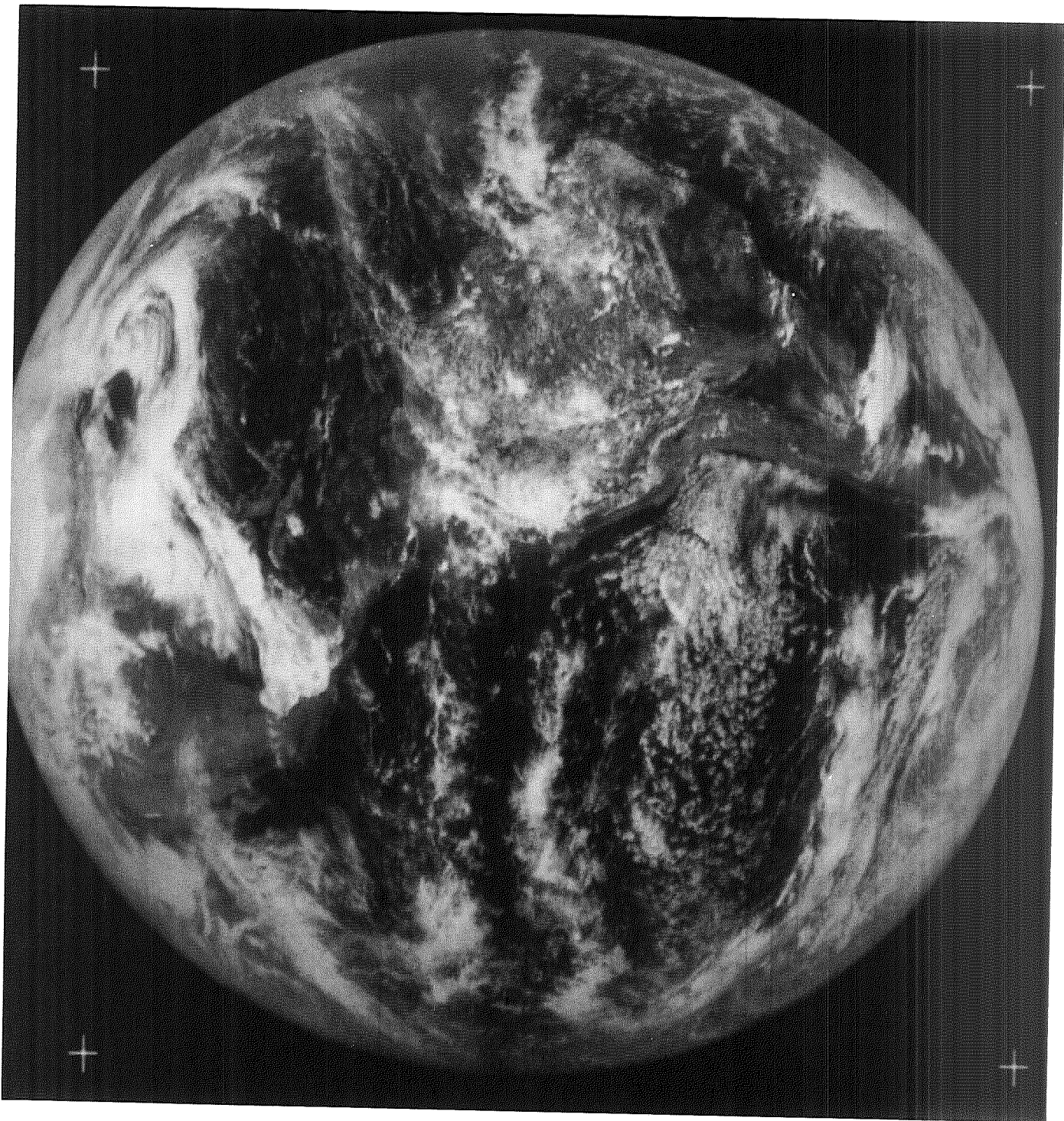
ATS-III MSSCC 18 MAR 70 16 24 50 Z 5

MSSCC

22 Mar 70

SSP 81.81W 0.59S

Seq	End Time	Remarks
1	15 32 05	Noise
2	15 58 12	Noise
3	16 24 18	Noise
4	16 50 24	Noise
5	17 16 30	Noise
6	17 42 36	Noise
7	18 08 43	Moon Visible Some Noise
8	18 34 49	Noise
9	19 00 55	Some Noise
10	19 27 01	Some Noise



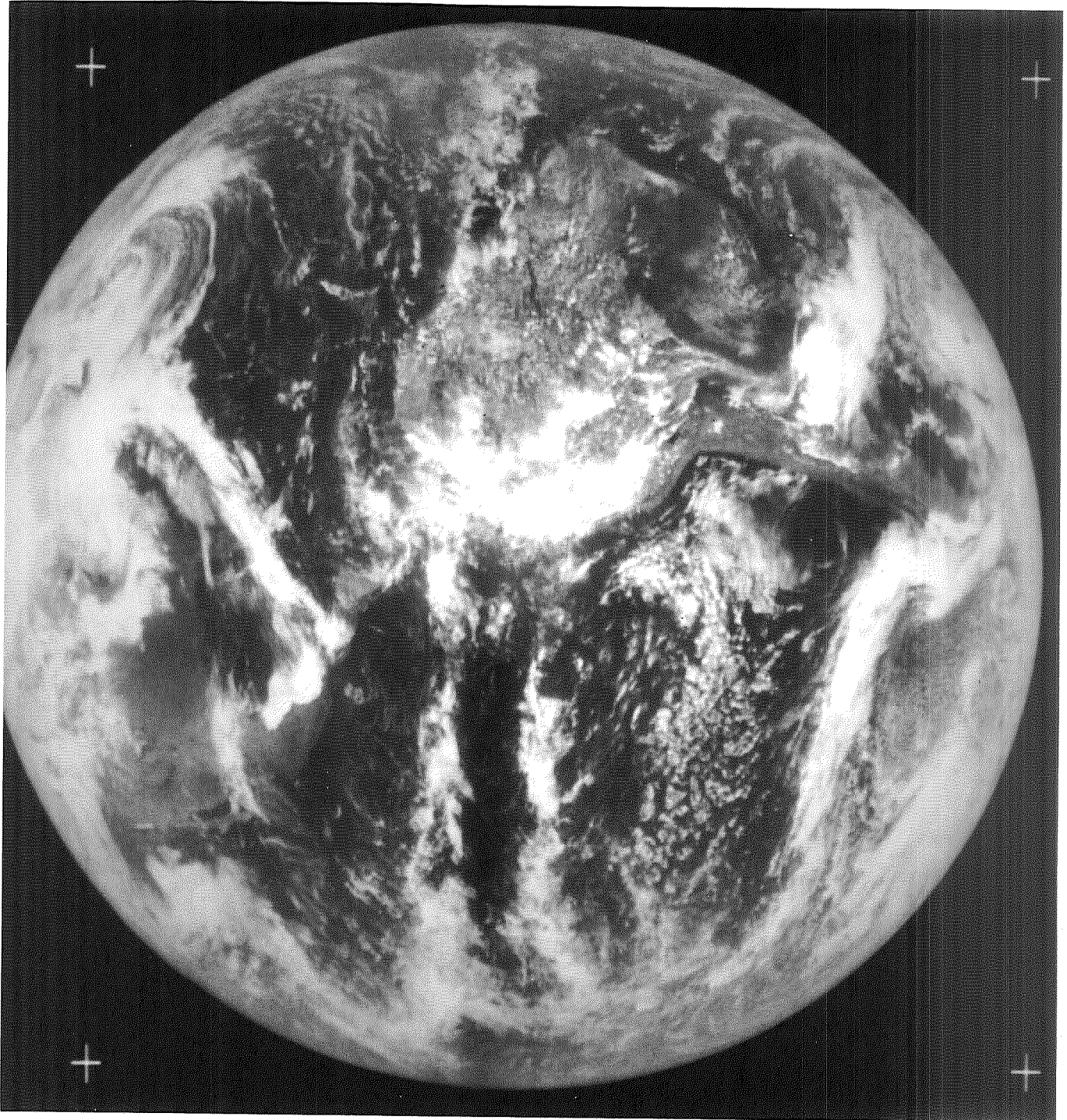
ATS-III MSSCC 22 MAR 70 16 50 24 Z 4

MSSCC

23 Mar 70

SSP 81.60W 0.59S

Seq	End Time	Remarks
1	15 27 42	
2	15 53 48	
3	16 19 57	
4	16 46 03	
5	17 12 10	
6	17 38 16	
7	18 04 22	
8	18 30 29	Moon Visible
9	18 56 35	
10	19 22 44	



ATS-III MSSCC 23 MAR 70 17 12 10 Z 5

MSSCC

24 Mar 70

SSP 81.39W 0.59S

Seq	End Time	Remarks
1	14 58 48	Slight Dropouts
2	15 24 58	Slight Dropouts
3	15 51 04	Slight Dropouts
4	16 17 10	Slight Dropouts
5	16 43 16	Slight Dropouts
6	17 09 22	Slight Dropouts
7	17 35 28	Slight Dropouts
8	18 01 35	Slight Dropouts
9	18 27 41	Slight Dropouts
10	18 53 50	Slight Dropouts
11	19 19 56	Slight Dropouts



ATS-III MSSCC 24 MAR 70 17 09 22 Z 6

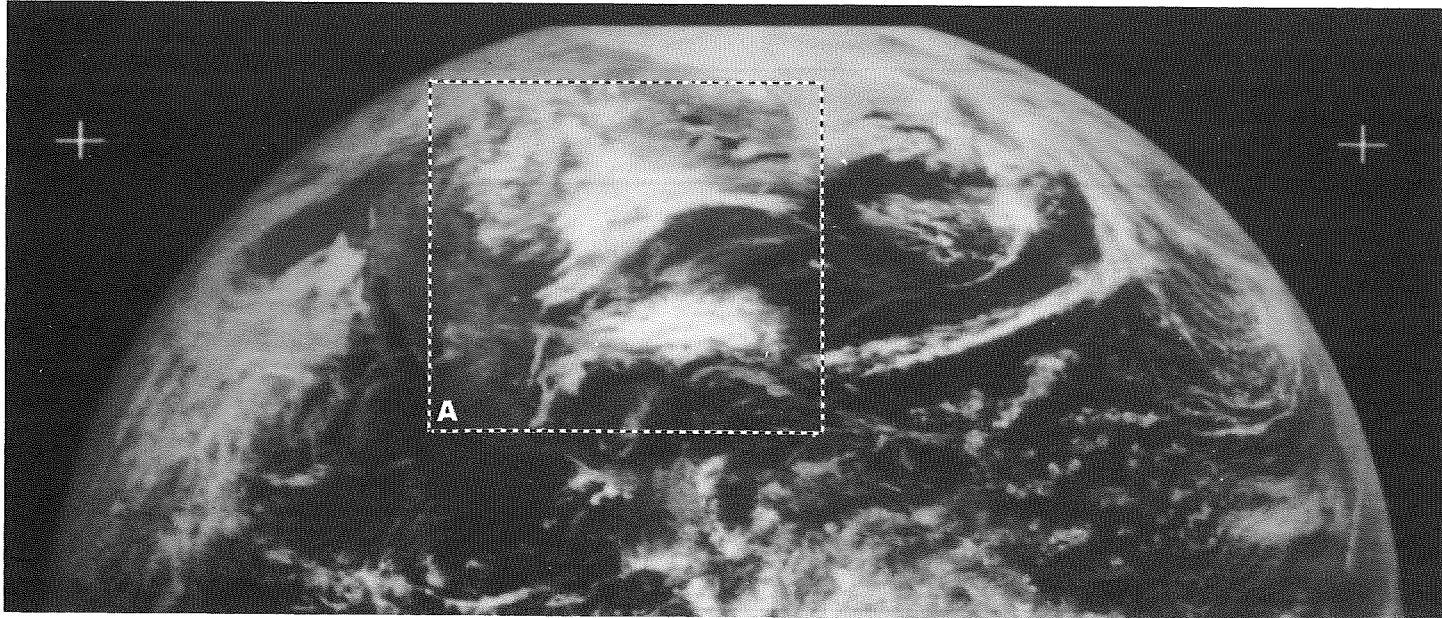
MSSCC

25 Mar 70

SSP 81.18W 0.59S

Seq	End Time	Remarks
1	16 36 00	Half Scan Dropouts
2	16 46 53	Half Scan Dropouts
3	16 57 43	Half Scan
4	17 08 36	Half Scan Dropouts
5	17 19 28	Half Scan Dropouts
6	17 30 21	Half Scan Dropouts
7	17 41 10	Half Scan Dropouts
8	17 52 00	Half Scan Dropouts
9	18 02 50	Half Scan Dropouts
10	18 13 42	Half Scan Dropouts
11	18 24 35	Half Scan Dropouts
12	18 35 27	Half Scan Dropouts
13	18 46 23	Half Scan Dropouts
14	18 57 16	Half Scan Dropouts
15	19 08 12	Half Scan Dropouts
16	19 19 01	Half Scan Dropouts
17	19 29 54	Half Scan Dropouts
18	19 40 55	Half Scan Dropouts
19	19 51 48	Half Scan Dropouts
20	20 02 40	Half Scan Dropouts
21	20 13 41	Half Scan Dropouts
22	20 26 23	Half Scan Dropouts
23	20 37 43	Half Scan Dropouts
24	20 48 35	Half Scan
25	20 59 40	Half Scan Dropouts

II-331



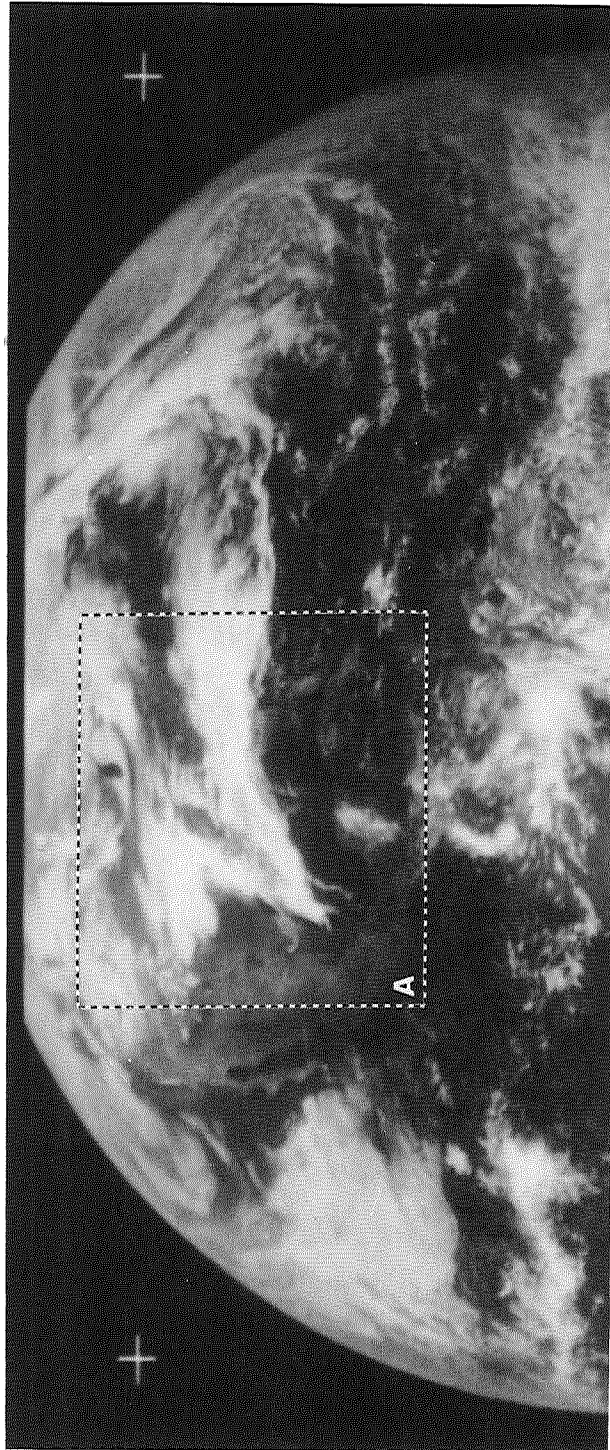
ATS-III MSSCC 25 MAR 70 16 46 53 Z 2

MSSCC

28 Mar 70

SSP 80.55W 0.60S

Seq	End Time	Remarks
1	14 26 32	Half Scan
2	14 37 22	Half Scan
3	14 48 15	Half Scan
4	14 59 04	Half Scan
5	15 09 54	Half Scan
6	15 20 43	Half Scan
7	15 31 33	Half Scan
8	15 42 23	Half Scan
9	15 53 12	Half Scan
10	16 04 01	Half Scan
11	16 15 01	Half Scan
12	16 25 53	Half Scan
13	16 36 43	Half Scan
14	16 47 32	Half Scan
15	16 58 22	Half Scan
16	17 09 44	Half Scan
17	17 22 45	Half Scan
18	17 33 34	Half Scan
19	17 44 41	Half Scan
20	17 55 34	Half Scan
21	18 06 27	Half Scan
22	18 17 28	Half Scan
23	18 28 45	Half Scan
24	18 39 37	Half Scan
25	18 50 41	Half Scan
26	19 01 49	Half Scan
27	19 16 18	Half Scan
28	19 27 20	Half Scan
29	19 38 36	Half Scan
30	19 49 56	Half Scan
31	20 00 51	Half Scan
32	20 12 29	Half Scan
33	20 23 21	Half Scan
34	20 34 14	Half Scan
35	20 45 06	Half Scan
36	20 56 02	Half Scan
37	21 06 51	Half Scan
38	21 17 47	Half Scan
39	21 28 40	Half Scan
40	21 39 32	Half Scan
41	21 50 25	Half Scan
42	22 01 18	Half Scan
43	22 12 10	Half Scan
44	22 23 03	Half Scan
45	22 33 56	Half Scan
46	22 44 48	Half Scan
47	22 55 41	Half Scan
48	23 06 33	Half Scan
49	23 17 47	Half Scan
50	23 28 42	Half Scan
51	23 39 32	Half Scan
52	23 50 25	Half Scan



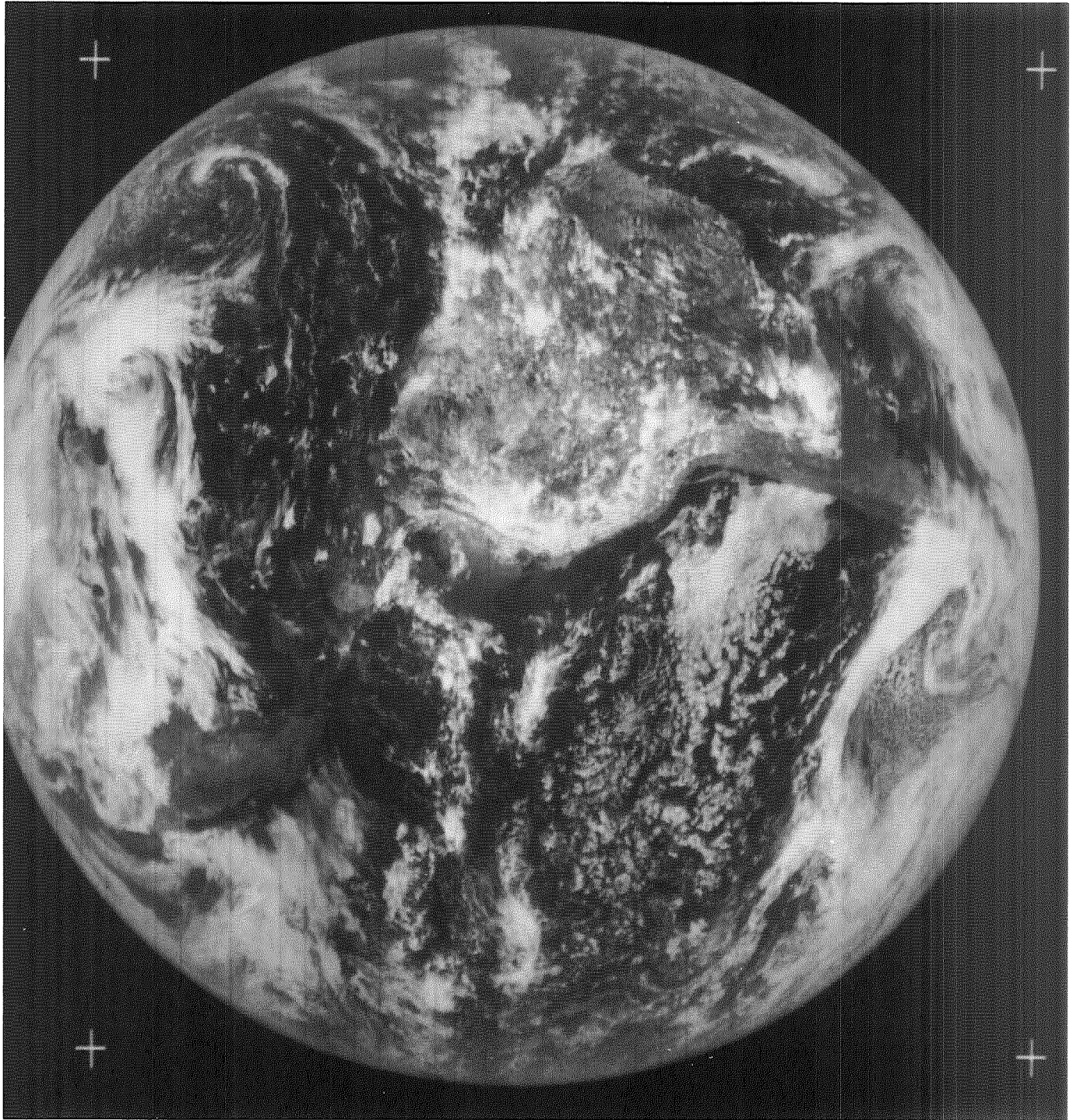
ATS-III MSSCC 28 MAR 70 18 28 45 Z 23

MSSCC

30 Mar 70

SSP 80.13W 0.61S

Seq	End Time	Remarks
1	15 23 08	Slight Dropouts
2	15 49 14	Slight Dropouts
3	16 15 21	Slight Dropouts
4	16 41 27	Slight Dropouts
5	17 07 33	Slight Dropouts
6	17 33 43	



ATS-III MSSCC 30 MAR 70 17 07 33 Z 5

MSSCC

1 Apr 70

SSP 79.72W 0.62S

Seq	End Time	Remarks
1	12 31 15	Slight Sync Error
2	12 57 22	Slight Sync Error
3	13 26 58	Slight Sync Error
4	13 53 05	Slight Sync Error
5	14 21 30	Slight Sync Error
6	14 47 37	Slight Sync Error
7	15 13 46	Slight Sync Error
8	15 39 51	Slight Sync Error
9	16 05 59	Slight Sync Error
10	16 32 04	Slight Sync Error
11	16 44 22	Half Scan Slight Sync Error
12	17 09 01	Slight Sync Error
13	17 21 18	Half Scan Slight Sync Error
14	17 45 59	Slight Sync Error
15	17 58 16	Half Scan Slight Sync Error
16	18 22 55	Slight Sync Error
17	18 35 15	Half Scan Slight Sync Error
18	19 00 00	Slight Sync Error
19	19 12 18	Half Scan Slight Sync Error
20	19 37 22	Slight Sync Error
21	20 03 29	Slight Sync Error
22	20 29 43	Slight Sync Error
23	20 50 01	Slight Sync Error
24	21 41 22	Slight Sync Error
25	22 07 28	Slight Sync Error
26	22 19 46	Half Scan Slight Sync Error
27	22 44 27	Slight Sync Error
28	22 56 48	Half Scan Slight Sync Error
29	23 21 26	Slight Sync Error
30	23 33 43	Half Scan Slight Sync Error
31	23 58 28	



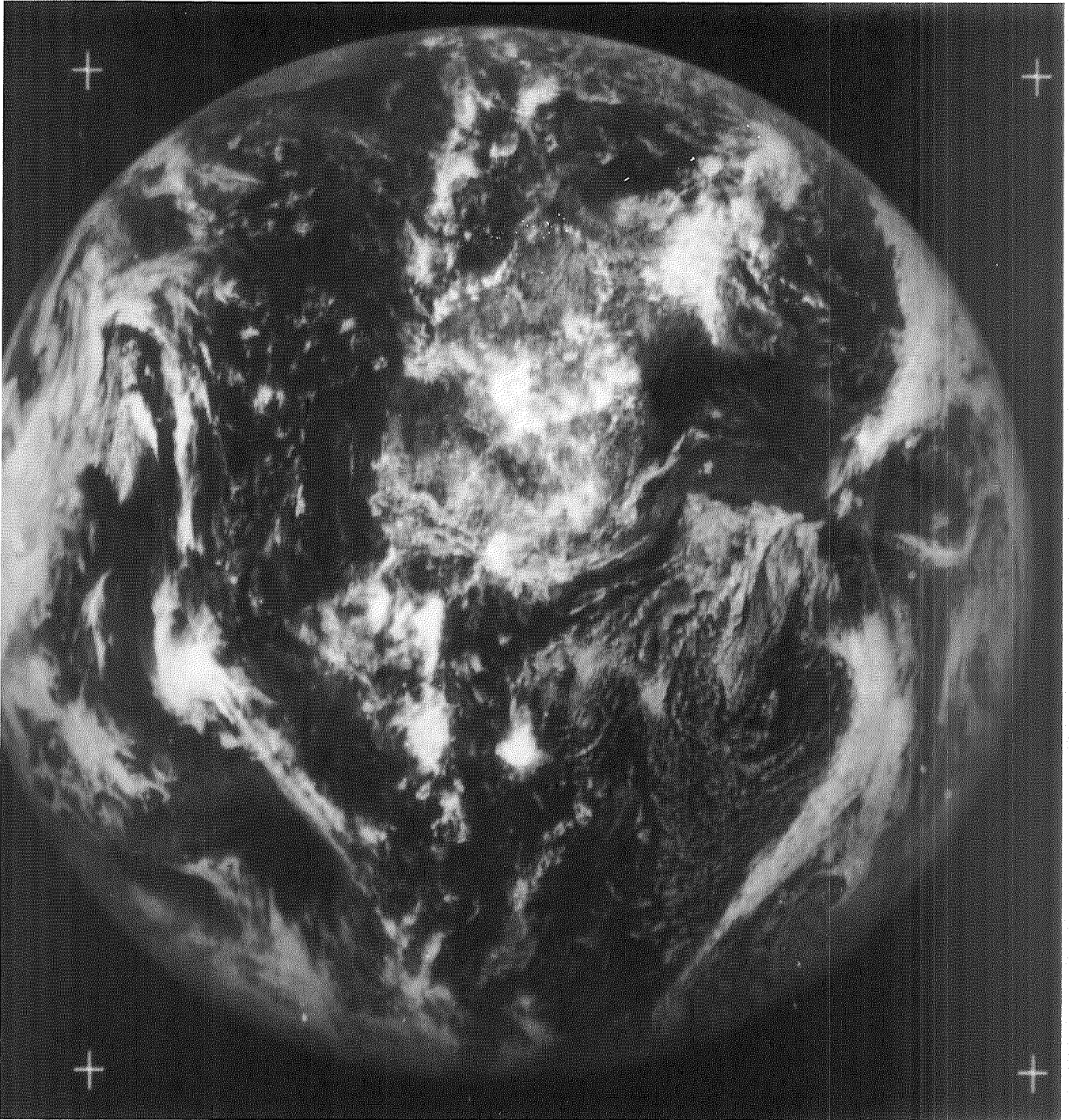
ATS-III MSSCC 1 APR 70 17 09 01 Z 12

MSSCC

11 Apr 70

SSP 77.75W 0.62S

Seq	End Time	Remarks
1	15 56 56	
2	16 23 02	



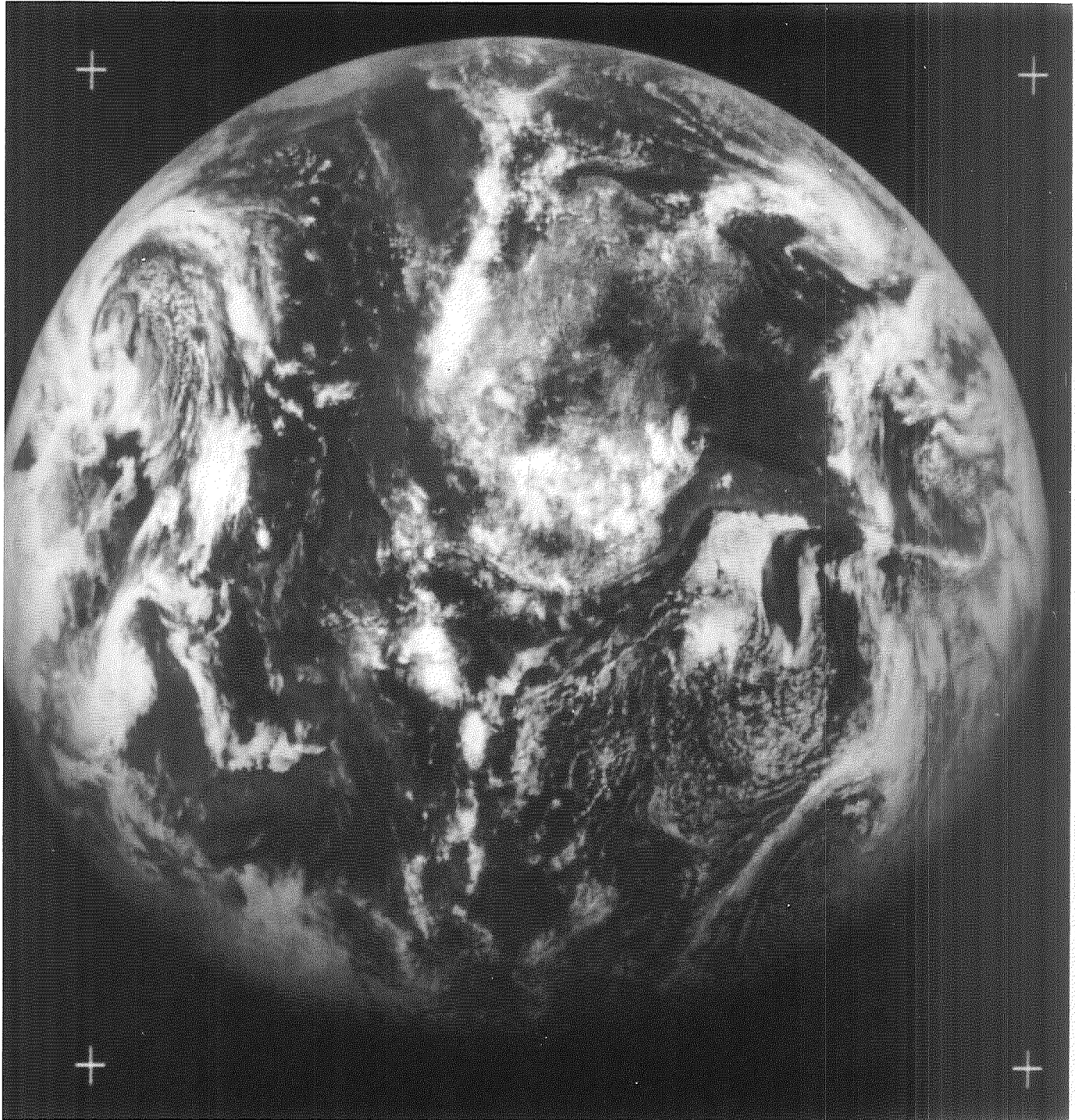
ATS-III MSSCC 11 APR 70 16 23 02 Z 2

MSSCC

13 Apr 70

SSP 77.37W 0.61S

Seq	End Time	Remarks
1	14 48 31	
2	15 14 37	
3	15 40 44	



ATS-III MSSCC 13 APR 70 15 14 37 Z 2

MSSCC

14 Apr 70

SSP 77.18W 0.61S

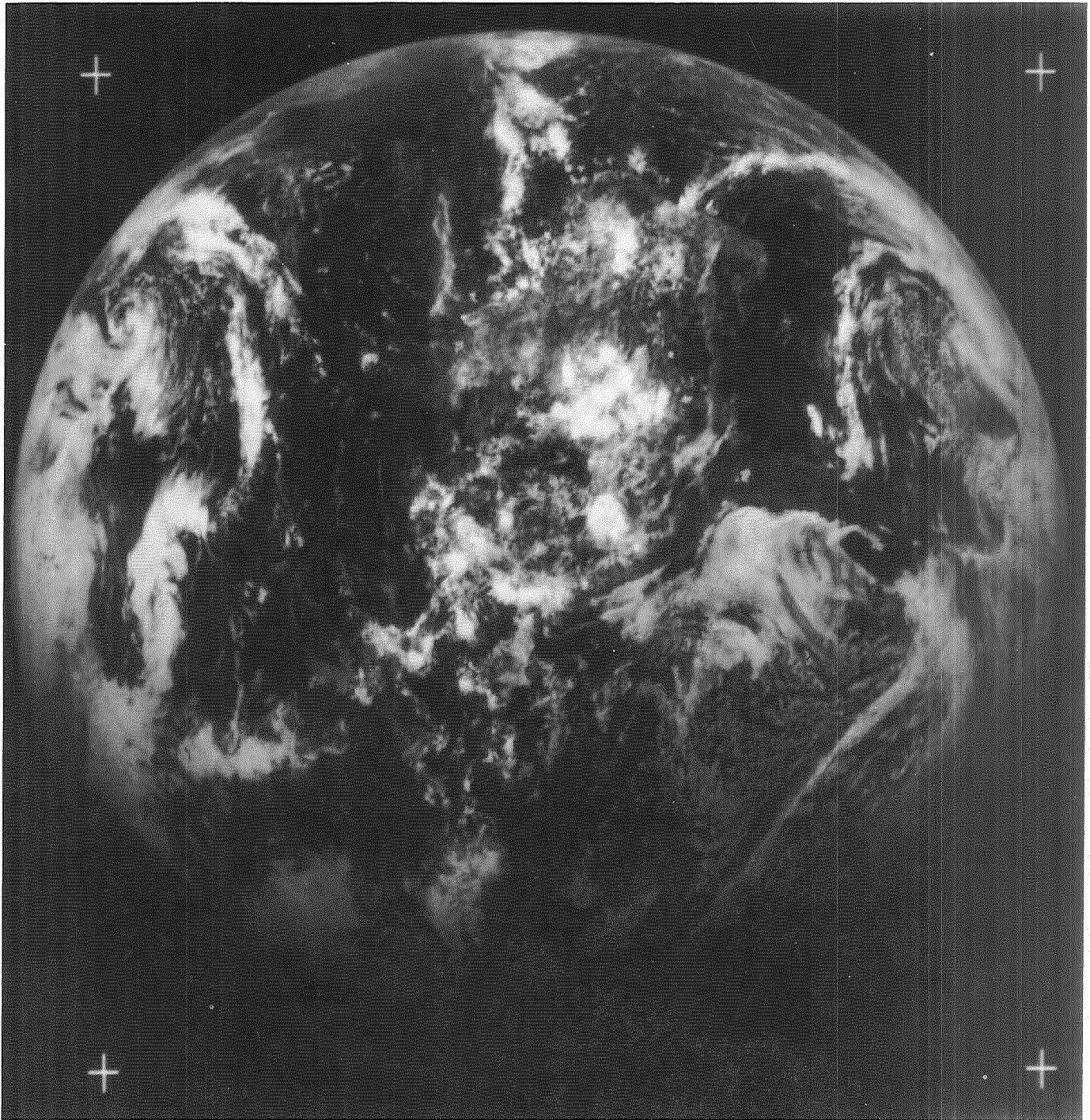
Seq

End Time

Remarks

1

14 51 59



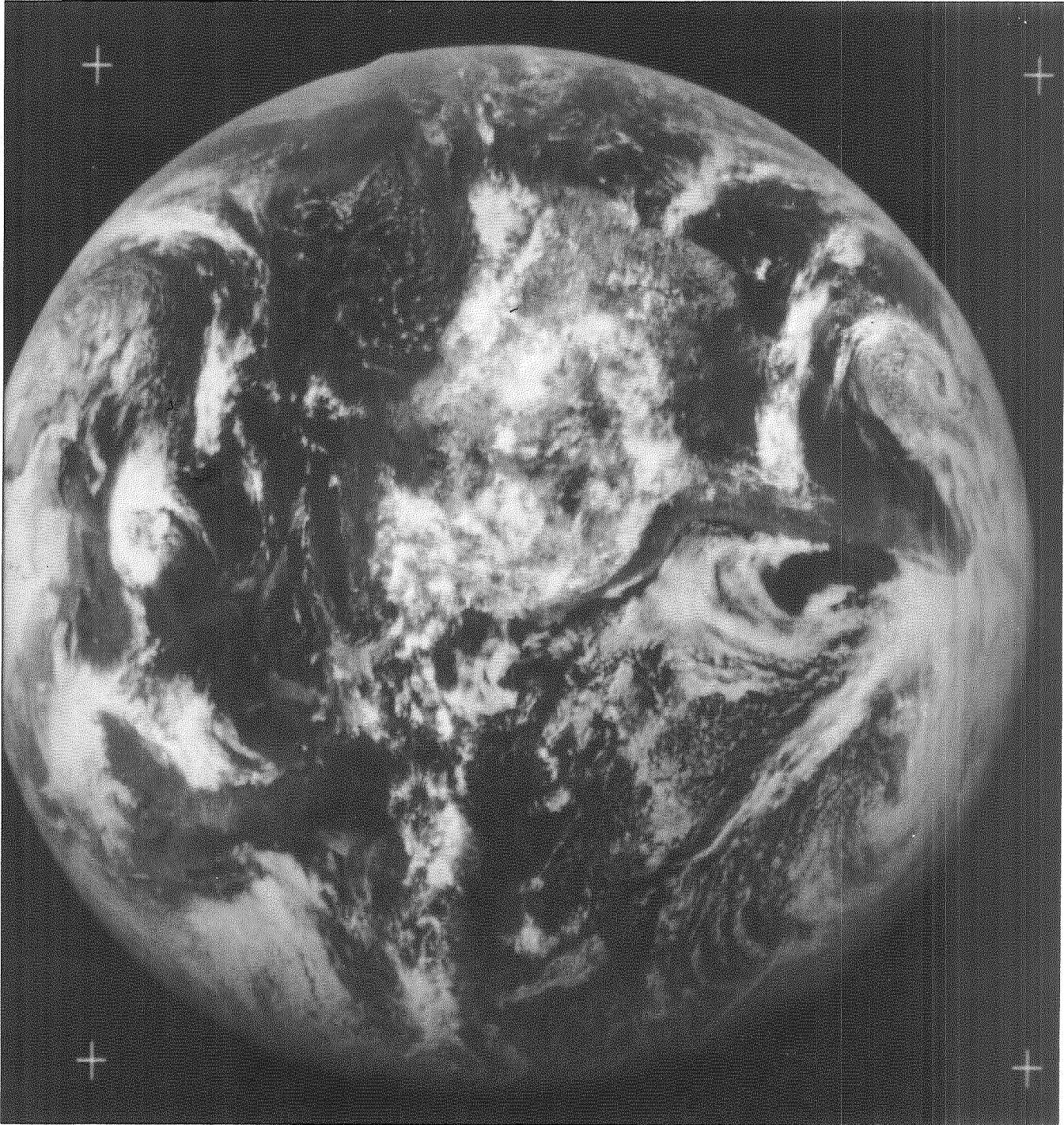
ATS-III MSSCC 14 APR 70 14 51 59 Z 1

MSSCC

15 Apr 70

SSP 76.99W 0.61S

Seq	End Time	Remarks
1	15 33 02	
2	15 59 09	Slight Sync Problem



ATS-III MSSCC 15 APR 70 15 59 09 Z 2

MSSCC

18 Apr 70

SSP 76.43W 0.60S

Seq	End Time	Remarks
1	14 45 39	
2	15 11 45	
3	15 37 52	
4	16 03 58	
5	16 30 07	



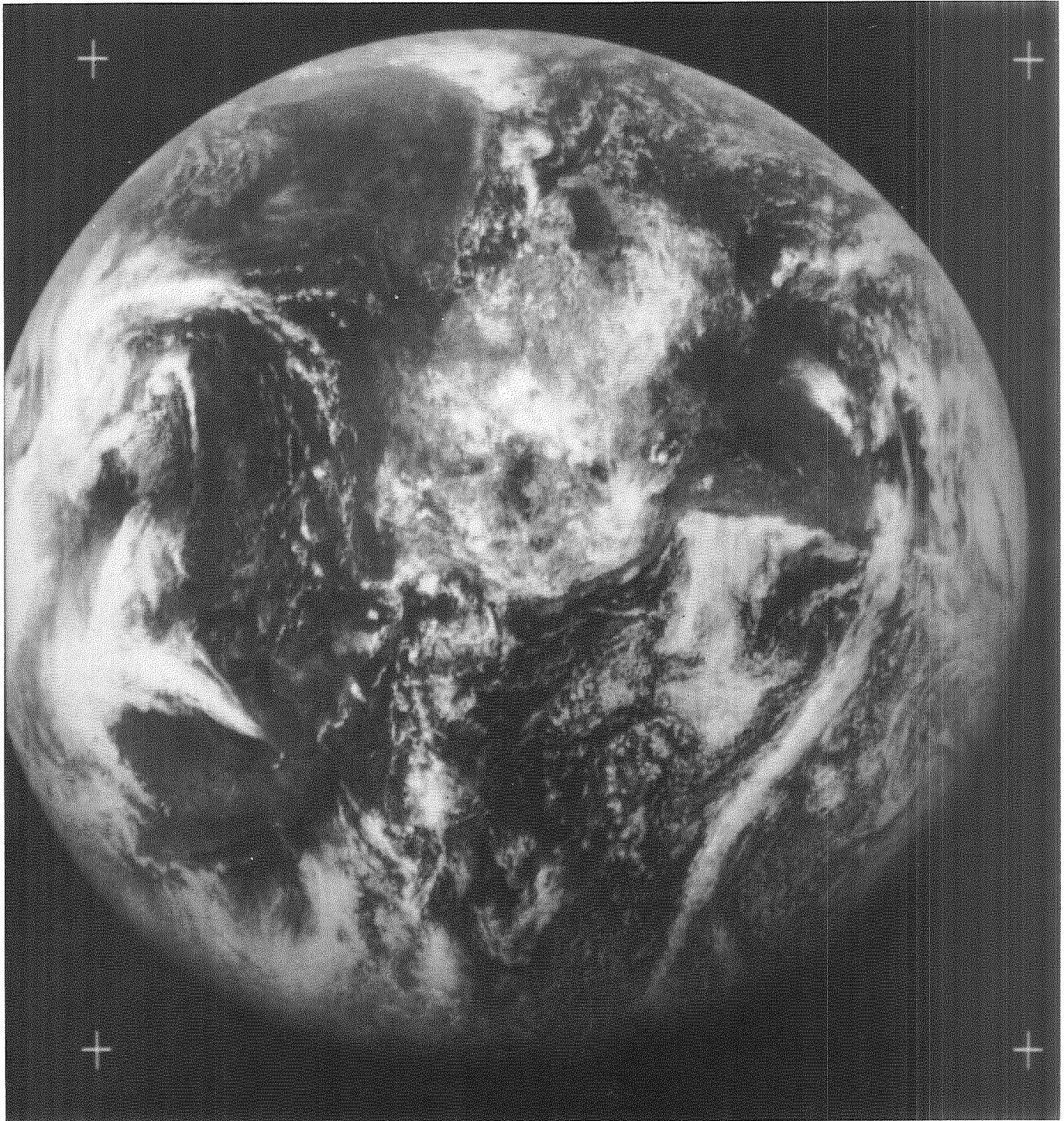
ATS-III MSSCC 18 APR 70 16 30 07 Z 5

MSSCC

19 Apr 70

SSP 76.25W 0.59S

Seq	End Time	Remarks
1	14 47 59	
2	15 14 06	
3	15 40 11	



ATS-III MSSCC 19 APR 70 15 40 11 Z 3

MSSCC

20 Apr 70

SSP 76.07W 0.59S

Seq	End Time	Remarks
1	14 45 28	
2	15 11 35	
3	15 37 40	Moon Visible
4	16 03 50	Moon Visible
5	16 29 56	Moon Visible



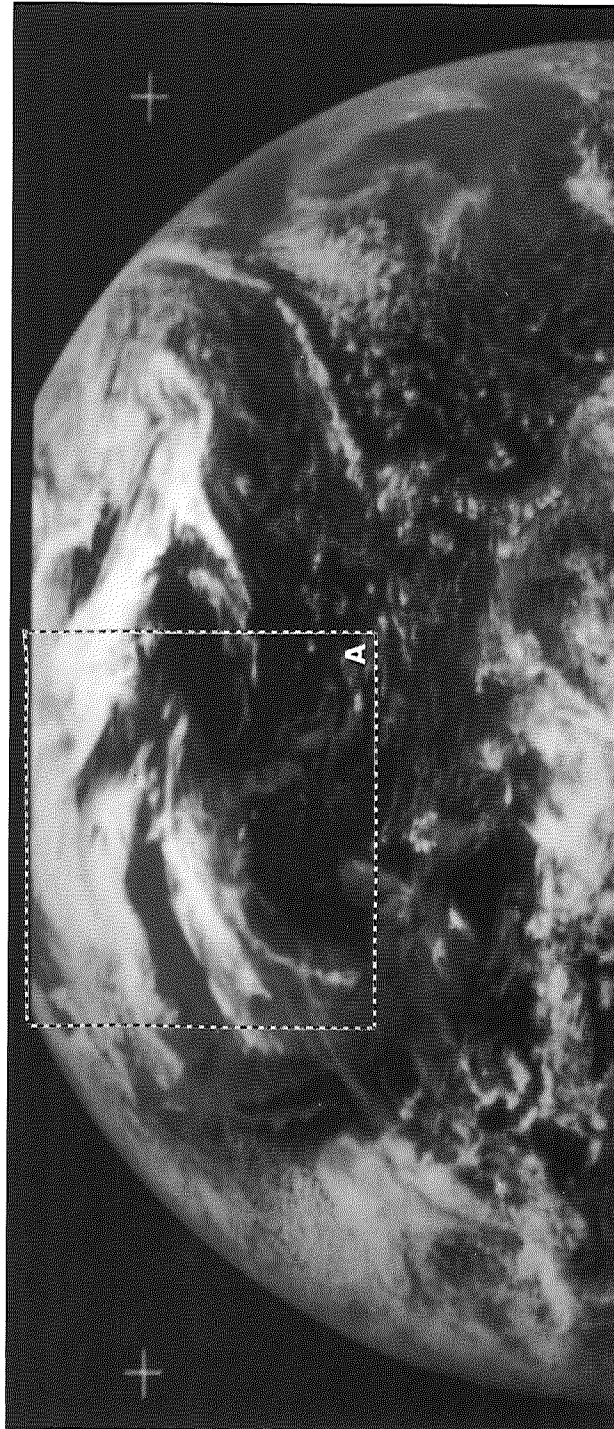
ATS-III MSSCC 20 APR 70 16 29 56 Z 5

MSSCC

22 Apr 70

SSP 75.69W 0.58S

Seq	End Time	Remarks
1	14 29 13	Half Scan Slight Sync Problem
2	14 40 53	Half Scan
3	14 51 45	Half Scan
4	15 03 43	Half Scan
5	15 14 54	Half Scan
6	15 25 47	Half Scan
7	15 36 39	Half Scan
8	15 47 38	Half Scan
9	15 58 33	Half Scan
10	16 09 23	Half Scan
11	16 20 16	Half Scan
12	16 31 08	Half Scan
13	16 42 13	Half Scan
14	16 53 02	Half Scan
15	17 04 27	Half Scan
16	17 15 35	Half Scan
17	17 26 27	Half Scan
18	17 37 29	Half Scan
19	17 48 18	Half Scan
20	17 59 09	Half Scan
21	18 09 58	Half Scan
22	18 22 05	Half Scan
23	18 37 27	Half Scan
24	18 48 08	Half Scan
25	18 58 58	Half Scan
26	19 09 50	Half Scan
27	19 20 43	Half Scan
28	19 31 36	Half Scan
29	19 42 28	Half Scan
30	19 53 47	Half Scan
31	20 04 40	Half Scan
32	20 15 32	Half Scan
33	20 26 28	Half Scan
34	20 37 21	Half Scan
35	20 48 13	Half Scan
36	20 59 06	Half Scan
37	21 10 01	Half Scan
38	21 28 31	Half Scan
39	21 39 23	Half Scan
40	21 50 37	Half Scan
41	22 01 32	Half Scan
42	22 12 22	Half Scan
43	22 23 17	Half Scan



ATS-III MSSCC 22 APR 70 16 20 16 Z 11

MSSCC

26 Apr 70

SSP 74.97W 0.56S

Seq	End Time	Remarks
1	14 39 18	Half Scan
2	14 50 18	Half Scan
3	15 01 00	Half Scan
4	15 11 51	Half Scan
5	15 22 48	Half Scan
6	15 33 38	Half Scan
7	15 44 36	Half Scan
8	15 55 47	Half Scan
9	16 06 37	Half Scan
10	16 17 26	Half Scan
11	16 28 18	Half Scan
12	16 39 18	Half Scan
13	16 50 07	Half Scan



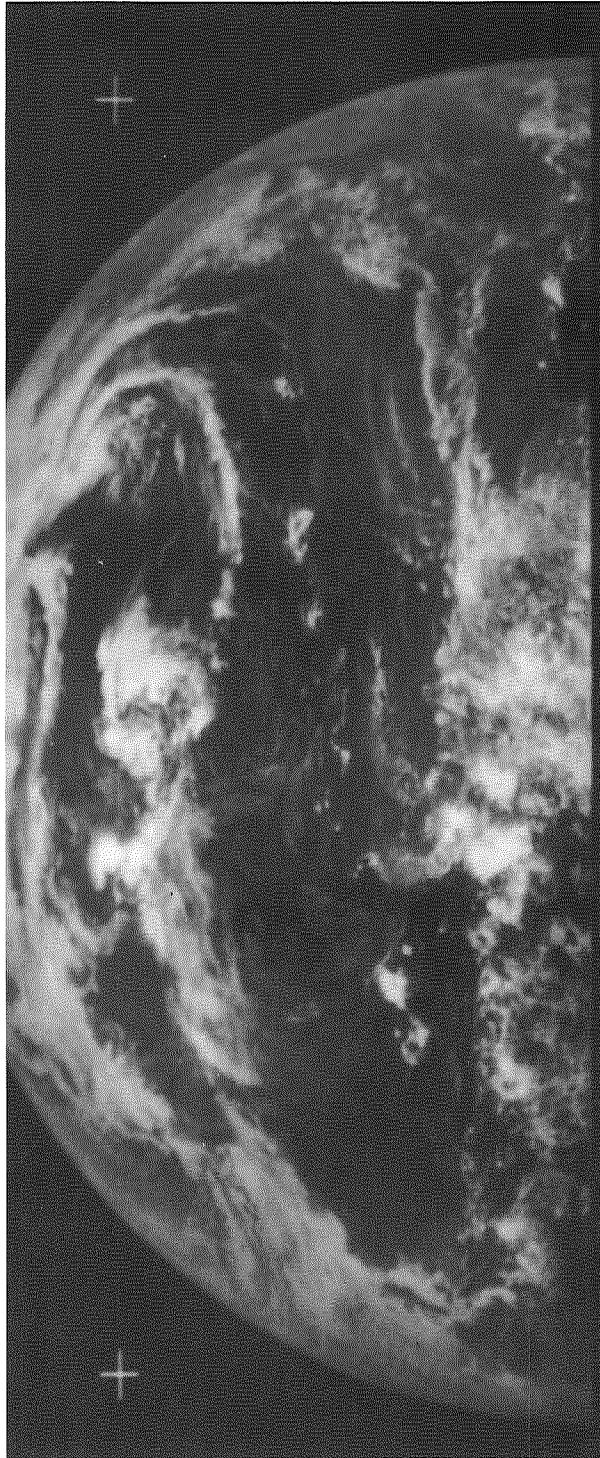
ATS-III MSSCC 26 APR 70 16 17 26 Z 10

MSSCC

27 Apr 70

SSP 74.79W 0.54S

Seq	End Time	Remarks
1	14 44 12	
2	15 10 19	
3	15 36 25	
4	15 48 45	Half Scan
5	15 59 38	Half Scan
6	16 10 27	Half Scan
7	16 21 20	Half Scan
8	16 32 13	Half Scan
9	16 43 02	Half Scan
10	16 53 58	Half Scan
11	17 04 50	Half Scan
12	17 38 18	Half Scan
13	17 49 23	Half Scan
14	18 00 57	Half Scan
15	18 12 31	Half Scan
16	18 23 57	Half Scan
17	18 35 04	Half Scan
18	18 46 14	Half Scan
19	18 57 19	Half Scan
20	19 08 30	Half Scan
21	19 19 40	Half Scan
22	19 30 50	Half Scan
23	19 42 04	Half Scan
24	19 53 14	Half Scan
25	20 04 25	Half Scan
26	20 15 29	Half Scan
27	20 26 39	Half Scan
28	20 37 56	Half Scan
29	20 49 07	Half Scan
30	21 00 08	Half Scan
31	21 11 15	Half Scan
32	21 23 04	Half Scan
33	21 34 09	Half Scan
34	21 45 19	Half Scan
35	21 56 24	Half Scan



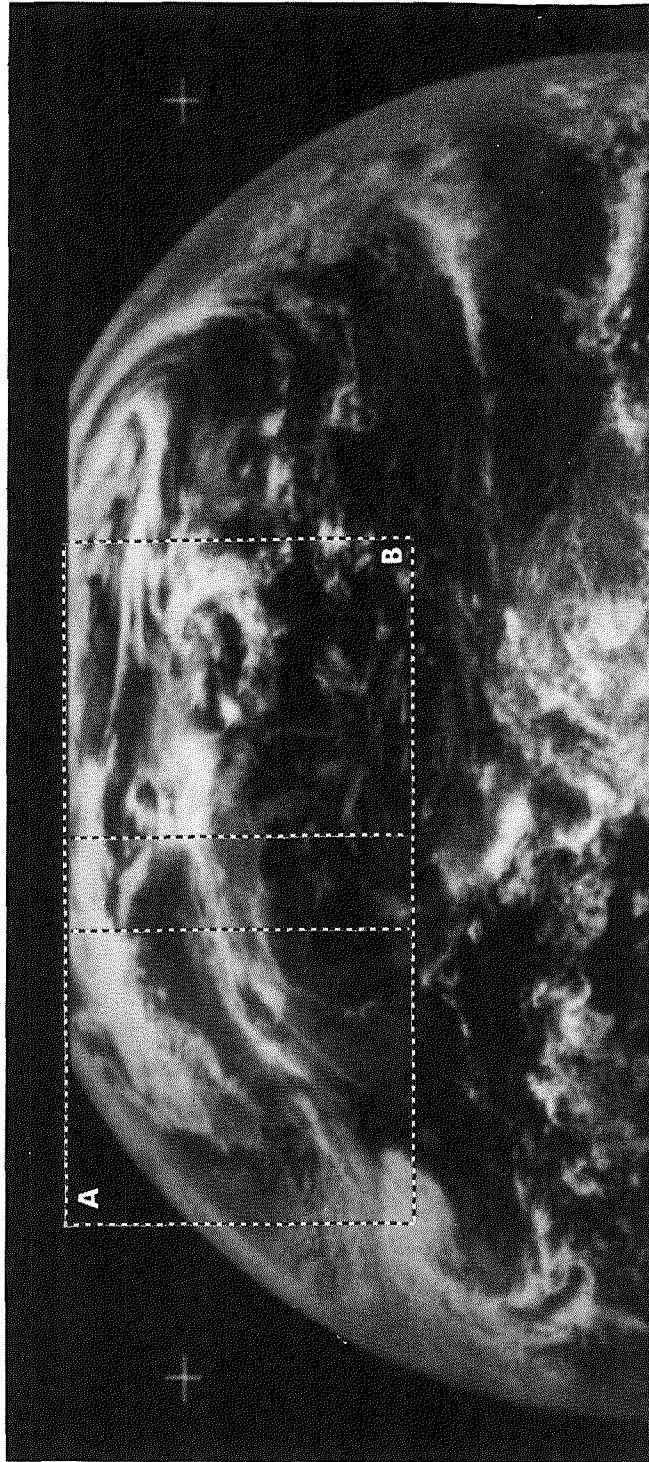
ATS-III MSSCC 27 APR 70 16 21 20 Z 7

MSSCC

28 Apr 70

SSP 74.61W 0.55S

Seq	End Time	Remarks
1	14 31 46	Half Scan
2	14 42 39	Half Scan
3	14 53 31	Half Scan
4	15 04 24	Half Scan
5	15 15 13	Half Scan
6	15 26 03	Half Scan
7	15 36 56	Half Scan
8	15 47 48	Half Scan
9	15 58 38	Half Scan
10	16 09 30	Half Scan
11	16 20 24	Half Scan
12	16 31 16	Half Scan
13	16 42 05	Half Scan
14	16 53 01	Half Scan
15	17 03 50	Half Scan
16	17 15 04	Half Scan
17	17 26 20	Half Scan
18	17 37 45	Half Scan
19	17 48 59	Half Scan
20	18 00 04	No Data
21	18 11 14	Half Scan
22	18 22 39	Half Scan
23	18 33 55	Half Scan
24	18 45 06	Half Scan
25	18 56 17	Half Scan
26	19 07 42	Half Scan
27	19 23 19	Half Scan
28	19 34 42	Half Scan
29	19 46 01	Half Scan
30	19 57 06	Half Scan
31	20 08 25	Half Scan
32	20 18 51	Half Scan
33	20 29 40	Half Scan
34	20 40 39	Half Scan
35	20 51 35	Half Scan
36	21 02 27	Half Scan
37	21 13 23	Half Scan
38	21 24 15	Half Scan
39	21 35 08	Half Scan
40	21 57 05	Half Scan



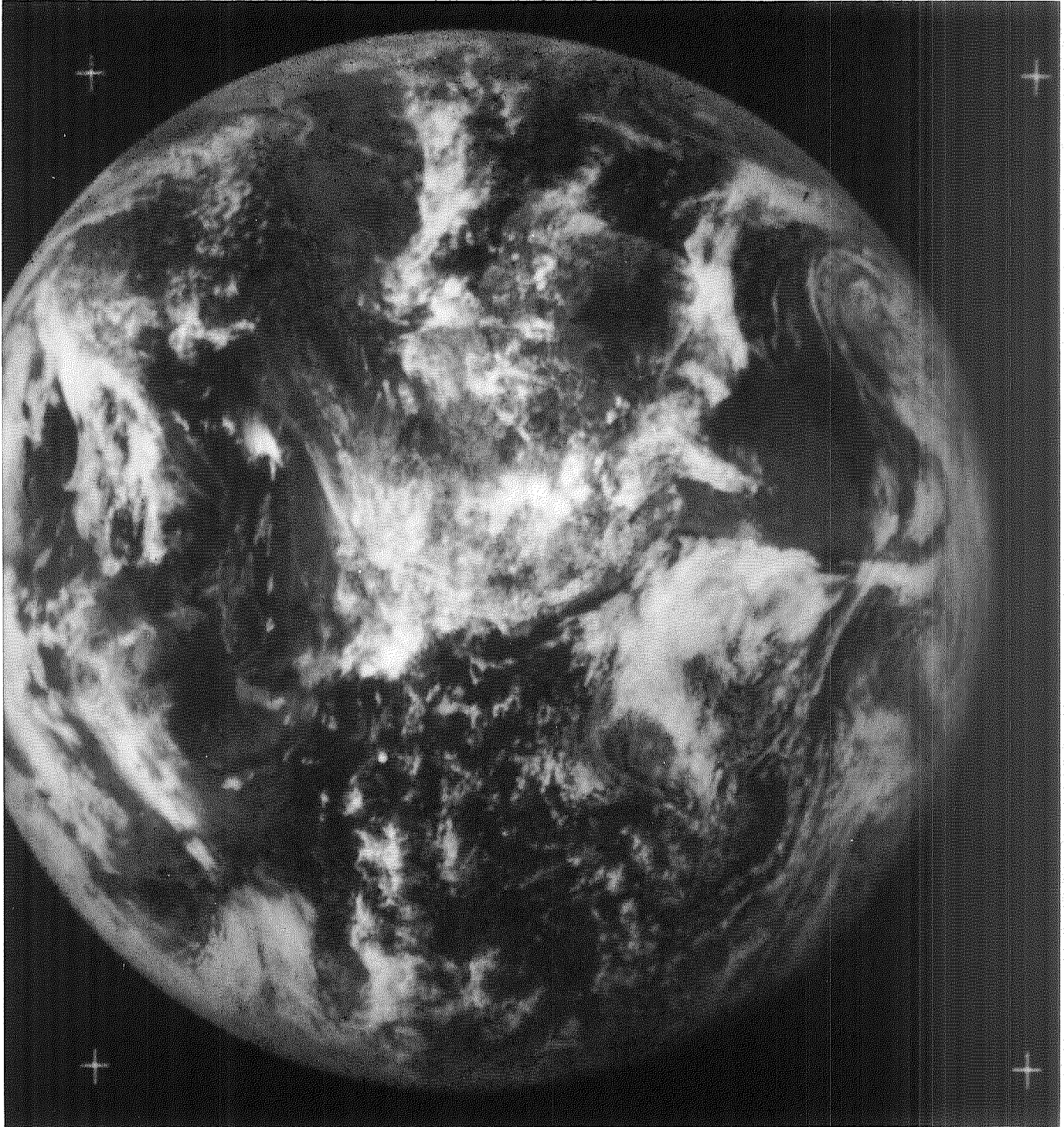
ATS-III MSSCC 28 APR 70 16 31 16 Z 12

MSSCC

29 Apr 70

SSP 74.44W 0.54S

Seq	End Time	Remarks
1	14 44 06	Sync Error First 400 Lines
2	15 10 12	
3	15 36 18	
4	16 02 25	
5	16 28 31	
6	16 54 40	
7	17 20 47	



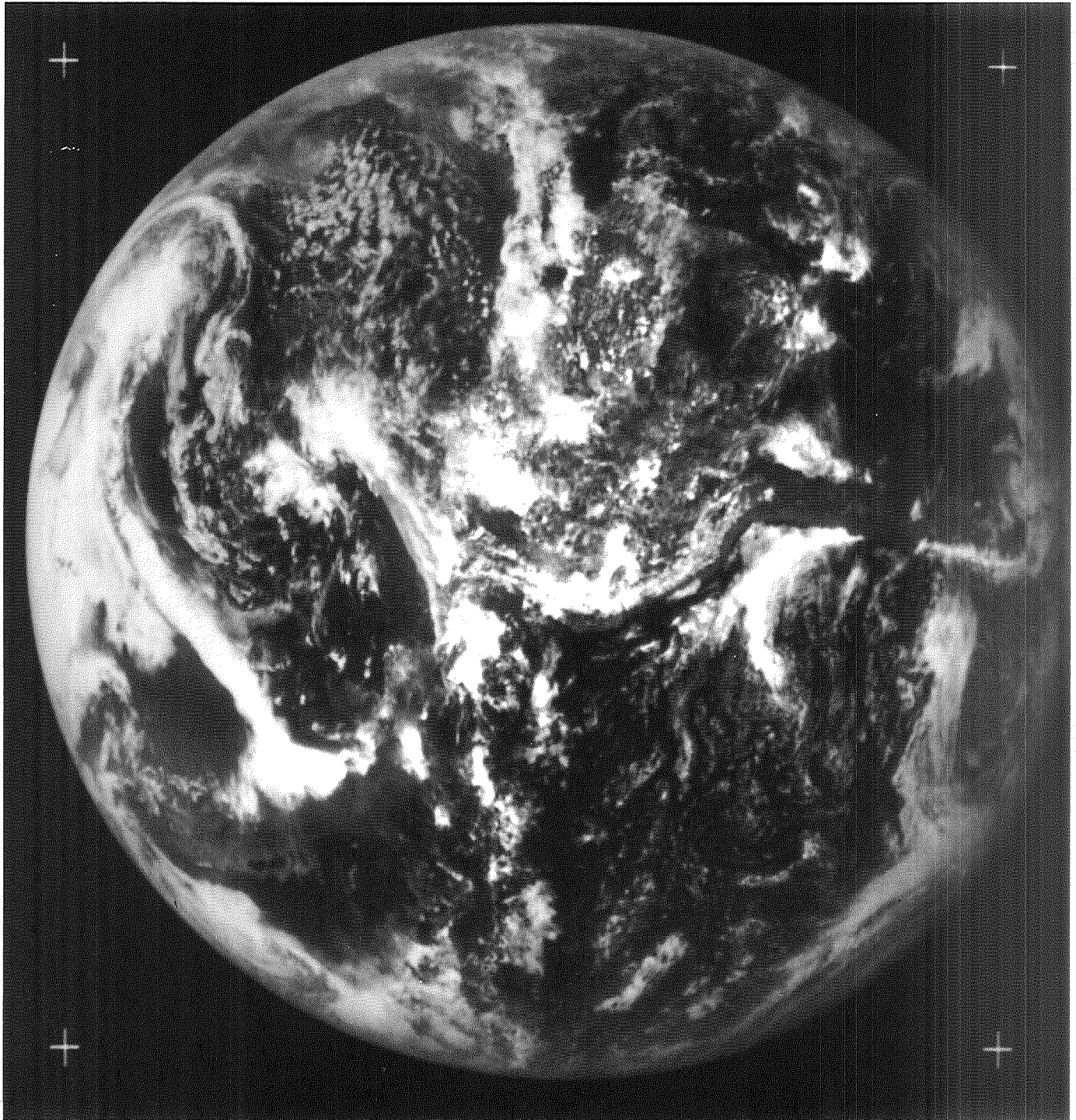
ATS-III MSSCC 29 APR 70 16 28 31 Z 5

MSSCC

2 May 70

SSP 73.93W 0.52S

Seq	End Time	Remarks
1	13 44 40	
2	14 10 50	
3	14 36 56	
4	15 03 02	
5	15 29 09	
6	15 55 18	
7	16 21 24	
8	16 47 31	
9	17 13 40	
10	18 00 41	
11	18 26 50	
12	18 52 57	
13	19 19 06	
14	19 45 12	
15	20 11 21	
16	20 37 28	
17	21 03 37	
18	21 29 44	
19	21 55 53	
20	22 21 59	
21	22 48 08	
22	23 14 15	
23	23 40 24	



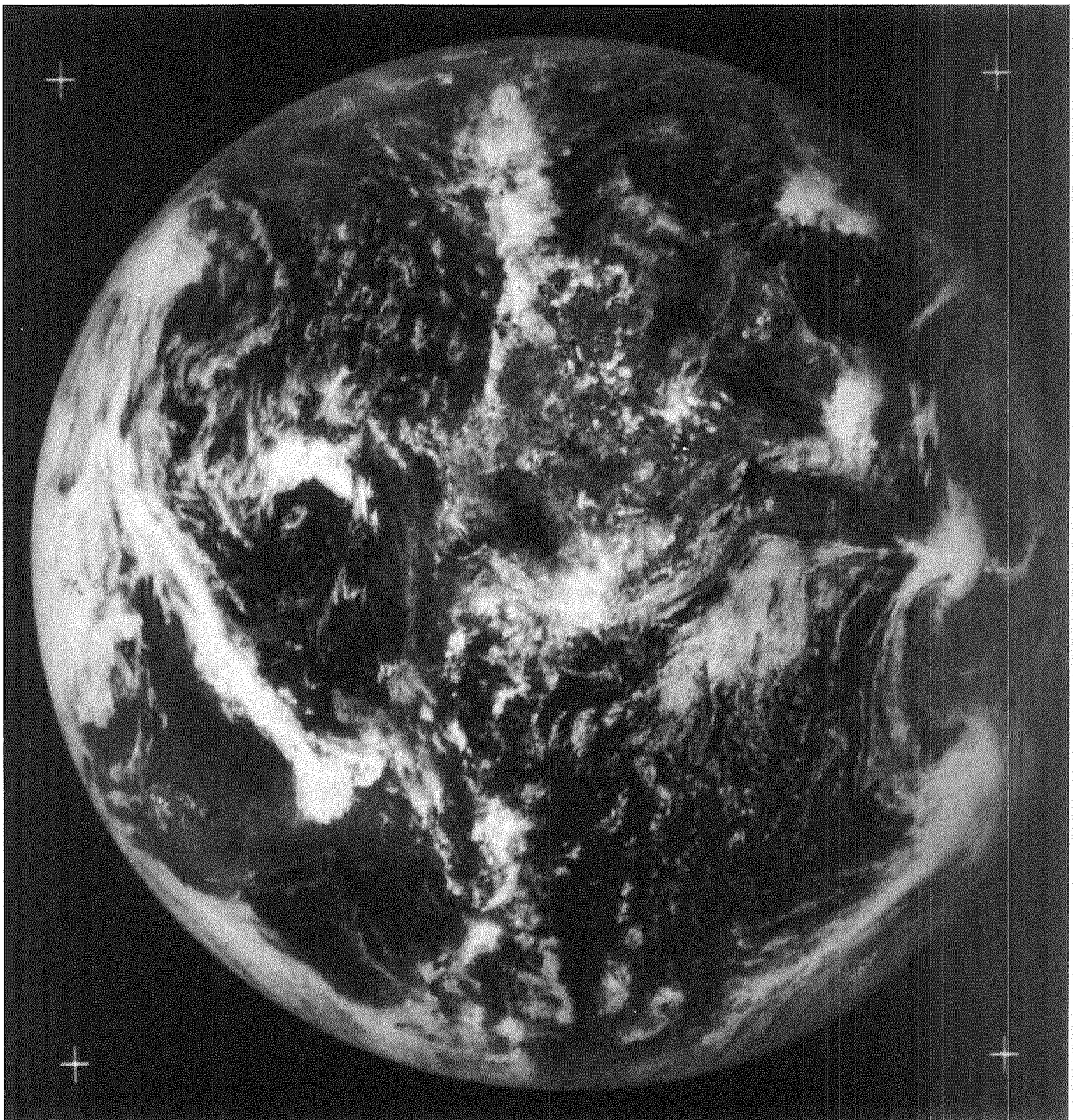
ATS-III MSSCC 2 MAY 70 16 47 31 Z 8

MSSCC

3 May 70

SSP 73.76W 0.51S

Seq	End Time	Remarks
1	14 43 42	
2	15 09 51	
3	15 35 58	
4	16 02 04	
5	16 28 13	
6	16 54 20	
7	17 20 26	



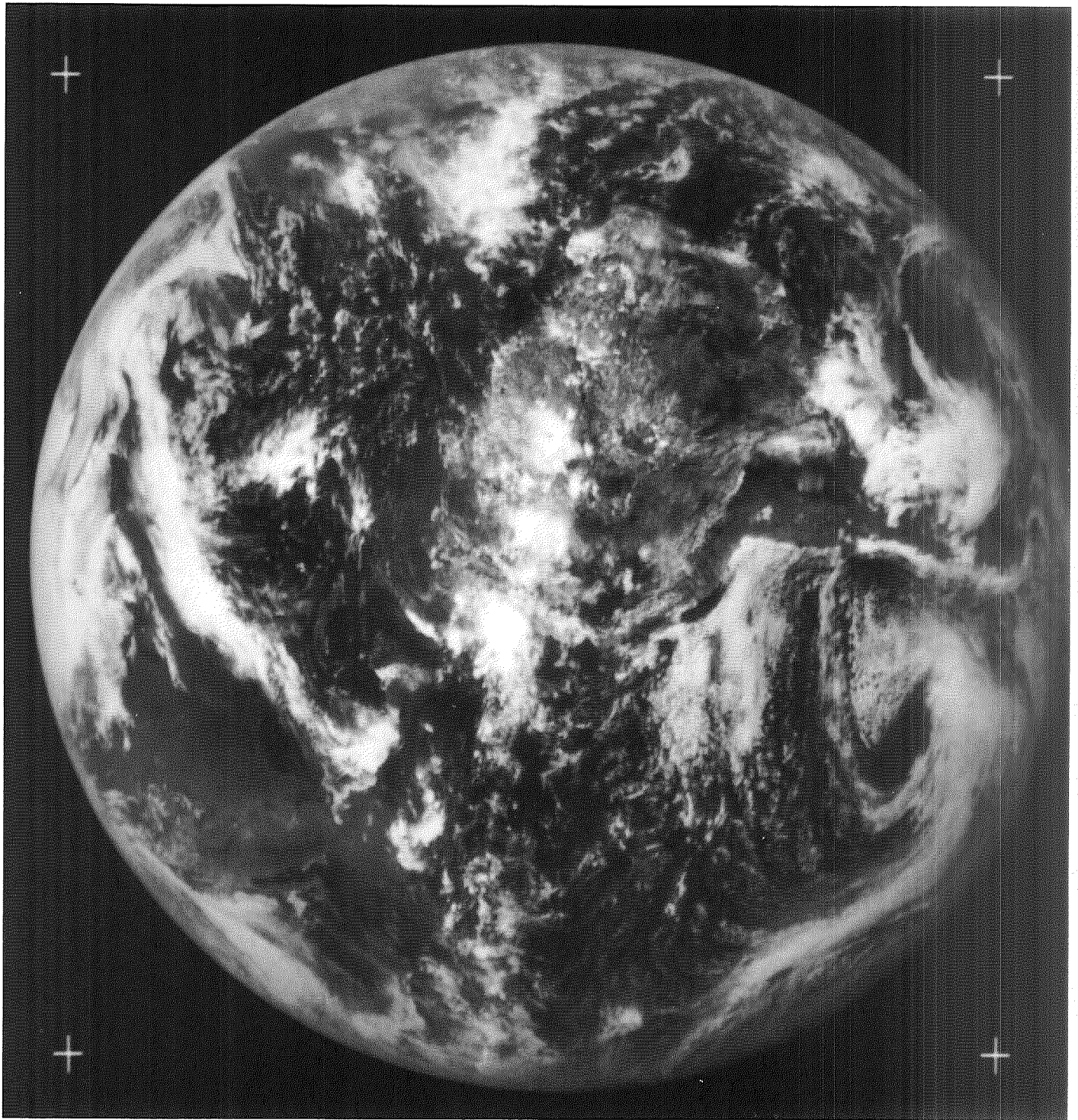
ATS-III MSSCC 3 MAY 70 16 54 20 Z 6

MSSCC

4 May 70

SSP 73.60W 0.50S

Seq	End Time	Remarks
1	14 43 45	
2	15 09 54	
3	15 36 00	
4	16 02 06	
5	16 28 16	
6	16 54 22	
7	17 20 28	



ATS-III MSSCC 4 MAY 70 16 28 16 Z 5

MSSCC

5 May 70

SSP 73.43W 0.49S

Seq	End Time	Remarks
1	14 54 37	
2	15 20 44	
3	15 46 50	
4	16 12 56	
5	16 39 05	
6	17 05 12	
7	17 31 18	



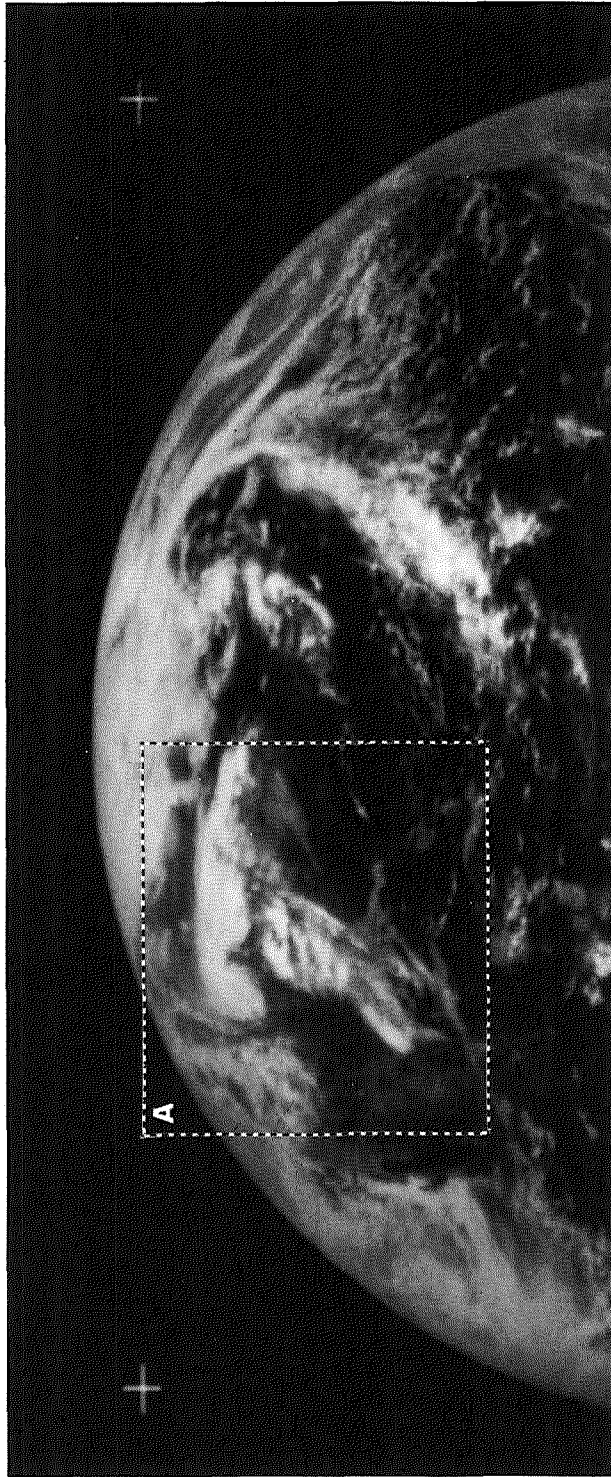
ATS-III MSSCC 5 MAY 70 16 39 05 Z 5

MSSCC

9 May 70

SSP 72.77W 0.46S

Seq	End Time	Remarks
1	13 29 43	Half Scan
2	13 40 35	Half Scan
3	13 51 37	Half Scan
4	14 02 30	Half Scan
5	14 13 22	Half Scan
6	14 24 15	Half Scan
7	14 35 07	Half Scan
8	14 45 57	Half Scan
9	14 56 47	Half Scan
10	15 07 36	Half Scan
11	15 18 29	Half Scan
12	15 29 22	Half Scan
13	15 40 15	Half Scan
14	15 51 07	Half Scan
15	16 02 00	Half Scan
16	16 12 52	Half Scan 50 Line Dropout
17	16 23 45	Half Scan
18	16 34 34	Half Scan
19	16 45 24	Half Scan
20	16 56 14	Half Scan
21	17 07 03	Half Scan
22	17 18 19	Half Scan
23	17 29 41	Half Scan
24	17 41 13	Half Scan
25	17 52 14	Half Scan
26	18 16 20	Half Scan
27	18 27 10	Half Scan
28	18 38 01	Half Scan
29	18 49 12	Half Scan
30	19 01 42	Half Scan
31	19 12 49	Half Scan
32	19 23 54	Half Scan
33	19 34 58	Half Scan
34	19 46 09	Half Scan
35	19 57 13	Half Scan
36	20 08 20	Half Scan
37	20 19 34	Half Scan
38	20 30 38	Half Scan
39	20 41 49	Half Scan
40	20 52 59	Half Scan
41	21 04 15	Half Scan
42	21 15 26	Half Scan
43	21 26 39	Half Scan
44	21 37 43	Half Scan
45	21 49 06	Half Scan
46	22 00 28	Half Scan
47	22 11 50	Half Scan
48	22 23 00	Half Scan
49	22 35 37	Half Scan
50	22 48 55	Half Scan
51	23 00 11	Half Scan
52	23 11 11	Half Scan
53	23 22 35	Half Scan
54	23 33 54	Half Scan
55	23 45 11	Half Scan
56	23 56 30	Half Scan



ATS-III MSSCC 9 MAY 70 16 02 00 Z 15

MSSCC

10 May 70

SSP 72.61W 0.45S

Seq	End Time	Remarks
1	00 09 48	Half Scan
2	00 21 04	Half Scan
3	00 32 20	Half Scan
4	00 44 19	Half Scan



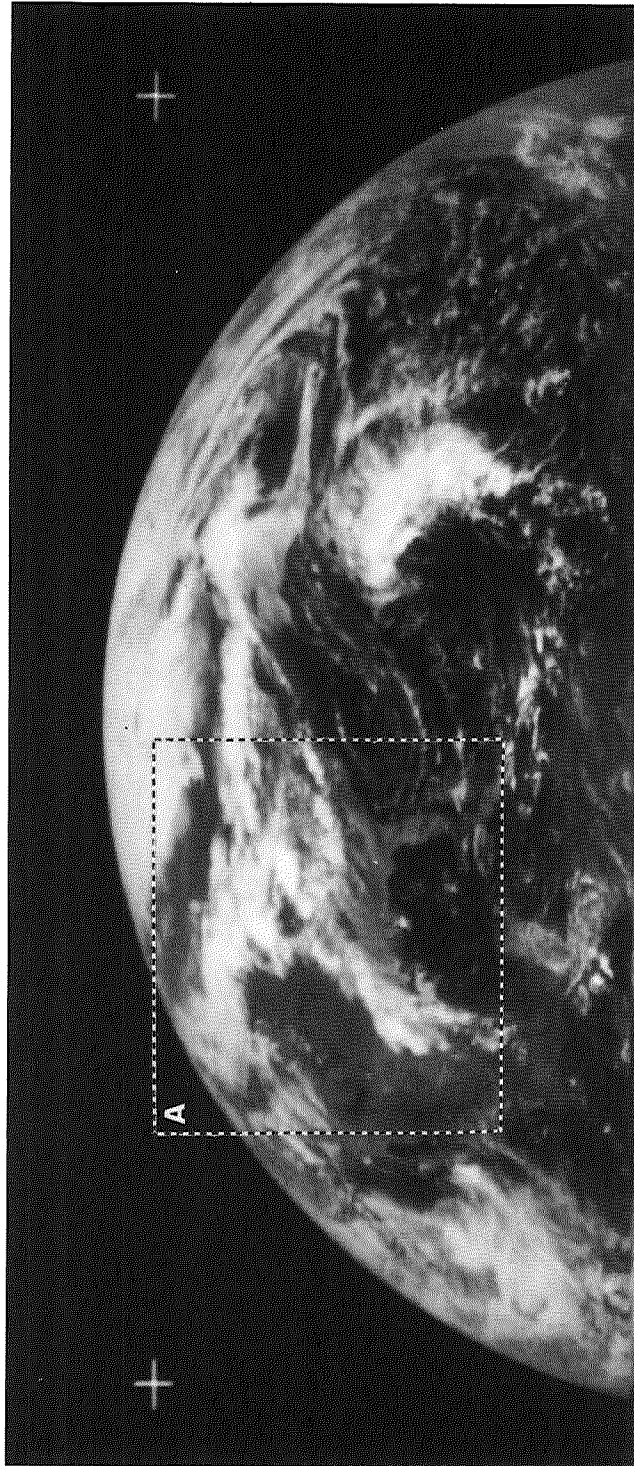
ATS-III MSSCC 10 MAY 70 00 21 04 Z 2

MSSCC

11 May 70

SSP 72.45W 0.42S

Seq	End Time	Remarks
1	13 48 37	Half Scan
2	13 59 35	Half Scan
3	14 10 28	Half Scan
4	14 21 17	Half Scan
5	14 32 07	Half Scan
6	14 42 59	Half Scan
7	14 53 55	Half Scan
8	15 04 48	Half Scan
9	15 15 37	Half Scan
10	15 26 27	Half Scan
11	15 37 19	Half Scan
12	15 48 12	Half Scan
13	15 59 05	Half Scan
14	16 09 54	Half Scan
15	16 20 44	Half Scan
16	16 31 33	Half Scan
17	16 42 23	Half Scan
18	16 53 16	Half Scan
19	17 04 14	Half Scan
20	17 14 55	Half Scan
21	17 25 47	Half Scan
22	17 36 43	Half Scan
23	17 47 39	Half Scan
24	17 58 31	Half Scan
25	18 09 24	Half Scan
26	18 20 17	Half Scan
27	18 31 18	Half Scan
28	18 42 10	Half Scan
29	18 53 06	Half Scan
30	19 03 59	Half Scan
31	19 15 12	Half Scan
32	19 26 04	Half Scan
33	19 38 32	Half Scan
34	19 49 39	Half Scan
35	20 00 35	Half Scan
36	20 11 25	Half Scan
37	20 22 17	Half Scan
38	20 33 10	Half Scan
39	20 44 02	Half Scan
40	20 54 55	Half Scan
41	21 05 48	Half Scan
42	21 16 40	Half Scan
43	21 27 33	Half Scan
44	21 38 25	Half Scan
45	21 56 10	Half Scan
46	22 07 06	Half Scan
47	22 17 56	Half Scan
48	22 28 48	Half Scan
49	22 39 41	Half Scan
50	22 50 33	Half Scan
51	23 01 50	Half Scan
52	23 13 11	Half Scan
53	23 23 52	Half Scan
54	23 35 00	Half Scan
55	23 45 53	Half Scan
56	23 56 45	Half Scan



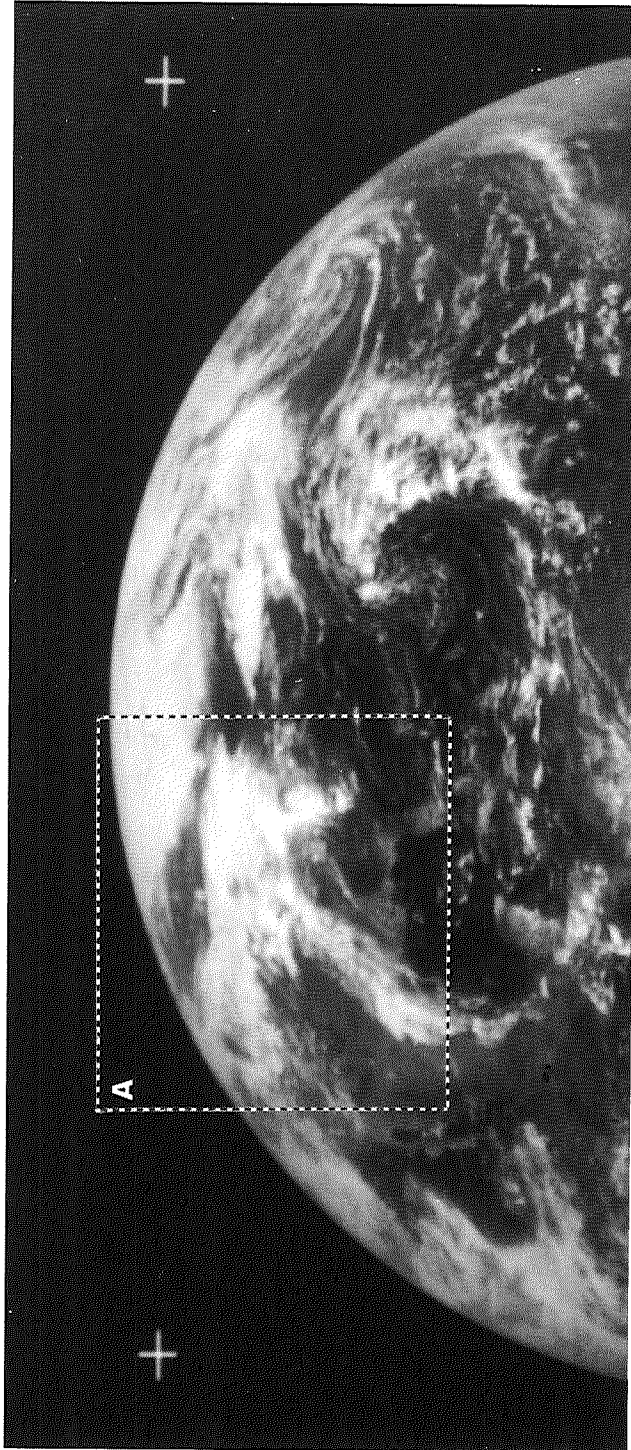
ATS-III MSSCC 11 MAY 70 17 04 14 Z 19

MSSCC

12 May 70

SSP 72.29W 0.43S

Seq	End Time	Remarks
1	00 07 38	Half Scan
2	00 18 31	Half Scan
3	00 29 23	Half Scan
4	00 40 16	Half Scan
5	00 51 08	Half Scan
6	13 30 10	Half Scan
7	13 41 03	Half Scan
8	13 51 53	Half Scan
9	14 02 42	Half Scan
10	14 13 35	Half Scan
11	14 24 27	Half Scan
12	14 35 20	Half Scan
13	14 46 10	Half Scan
14	14 56 59	Half Scan
15	15 08 09	Half Scan
16	15 19 14	Half Scan
17	15 30 13	Half Scan
18	15 41 02	Half Scan
19	15 51 55	Half Scan
20	16 02 47	Half Scan
21	16 13 40	Half Scan
22	16 24 33	Half Scan
23	16 35 25	Half Scan
24	16 46 18	Half Scan
25	16 57 10	Half Scan
26	17 08 03	Half Scan
27	17 19 02	Half Scan
28	17 29 54	Half Scan
29	17 41 05	Half Scan
30	17 51 57	Half Scan



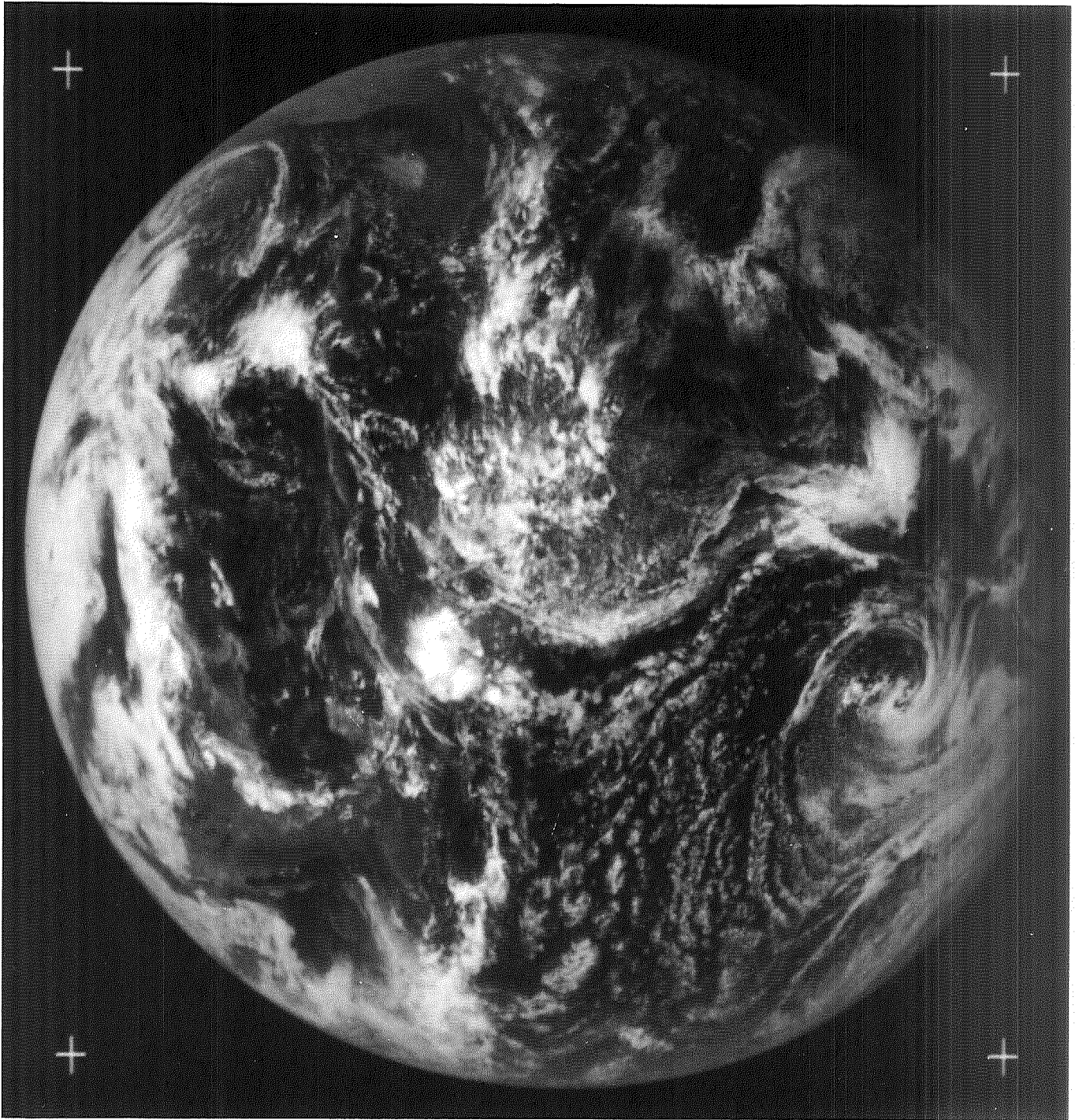
ATS-III MSSCC 12 MAY 70 16 24 33 Z 22

MSSCC

13 May 70

SSP 72.14W 0.42S

Seq	End Time	Remarks
1	00 08 02	Half Scan
2	00 27 25	Half Scan
3	00 38 17	Half Scan
4	00 49 09	Half Scan
5	14 39 56	Half Scan
6	14 50 45	Half Scan
7	15 01 35	Half Scan
8	15 12 24	Half Scan
9	15 23 14	Half Scan
10	15 34 04	Half Scan
11	15 44 56	Half Scan
12	15 55 46	Half Scan
13	16 06 35	Half Scan
14	16 17 25	Half Scan
15	16 28 15	Half Scan
16	16 39 07	Half Scan
17	16 50 00	Half Scan
18	17 01 01	Half Scan
19	17 26 10	
20	17 38 27	Half Scan
21	17 49 20	Half Scan
22	18 00 12	Half Scan
23	18 20 32	Half Scan
24	18 31 24	Half Scan
25	18 42 17	Half Scan
26	18 53 09	Half Scan
27	19 04 02	Half Scan
28	19 15 03	Half Scan
29	19 25 47	Half Scan
30	19 36 40	Half Scan
31	19 47 32	Half Scan
32	19 58 25	Half Scan
33	20 09 17	Half Scan
34	20 20 10	Half Scan
35	20 31 03	Half Scan
36	20 41 55	Half Scan
37	20 52 15	Half Scan
38	21 03 40	Half Scan
39	21 14 39	Half Scan
40	21 25 25	Half Scan
41	21 51 32	Half Scan
42	22 02 24	Half Scan
43	22 13 20	Half Scan
44	22 24 12	Half Scan
45	22 35 04	Half Scan
46	22 46 04	No Data
47	22 56 53	Half Scan
48	23 07 48	Half Scan
49	23 18 38	Half Scan
50	23 29 31	Half Scan
51	23 40 23	Half Scan
52	23 51 16	Half Scan



ATS-III MSSCC 13 MAY 70 17 26 10 Z 19

MSSCC

14 May 70

SSP 71.98W 0.41S

Seq	End Time	Remarks
1	00 02 09	Half Scan
2	00 13 01	Half Scan
3	00 23 54	Half Scan
4	00 35 04	Half Scan
5	00 45 57	Half Scan



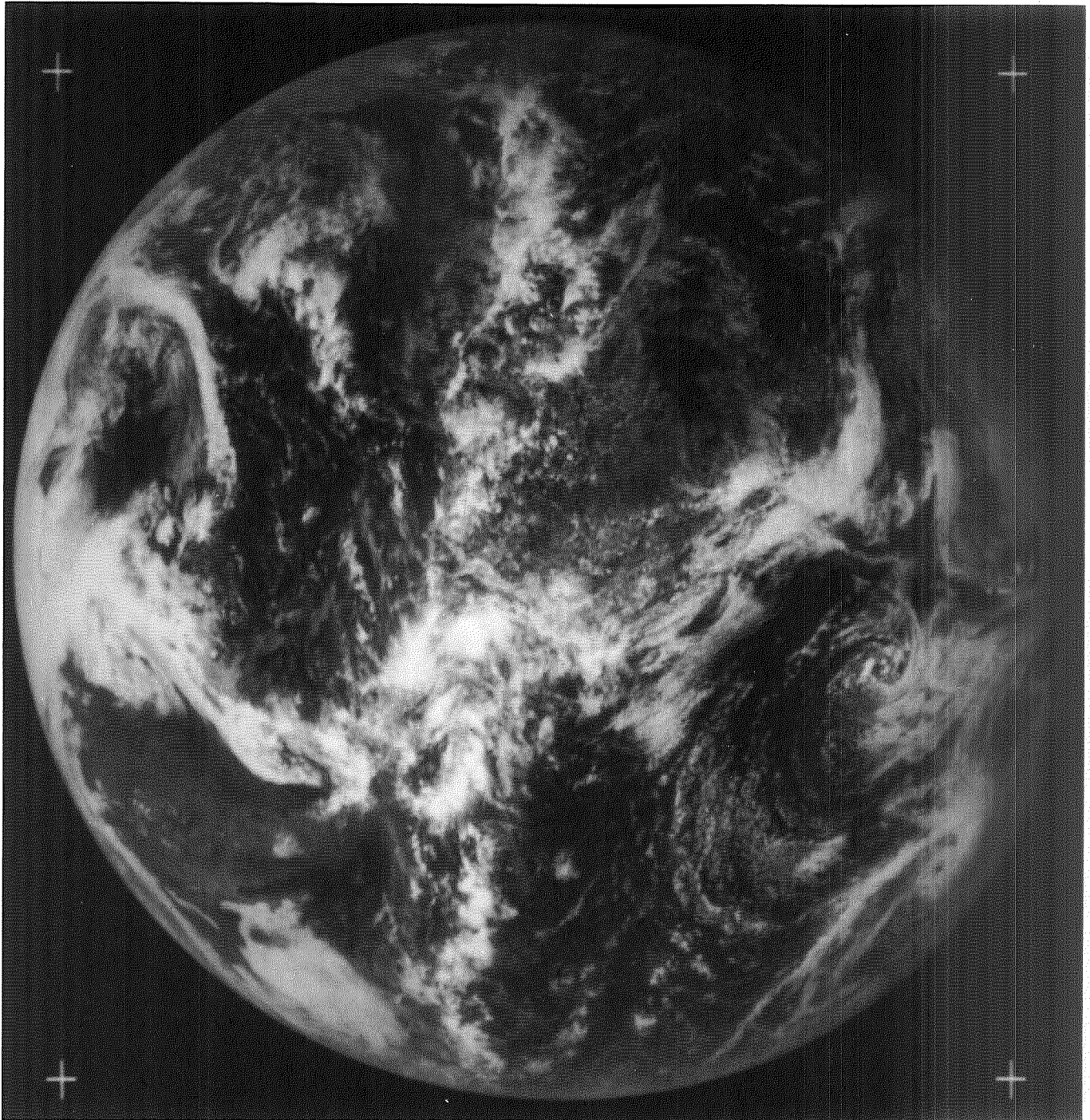
ATS-III MSSCC 14 MAY 70 00 23 54 Z 3

MSSCC

16 May 70

SSP 71.57W 0.39S

Seq	End Time	Remarks
1	15 44 26	
2	16 10 32	
3	16 36 42	
4	17 02 48	
5	17 28 54	
6	17 55 03	
7	18 21 10	



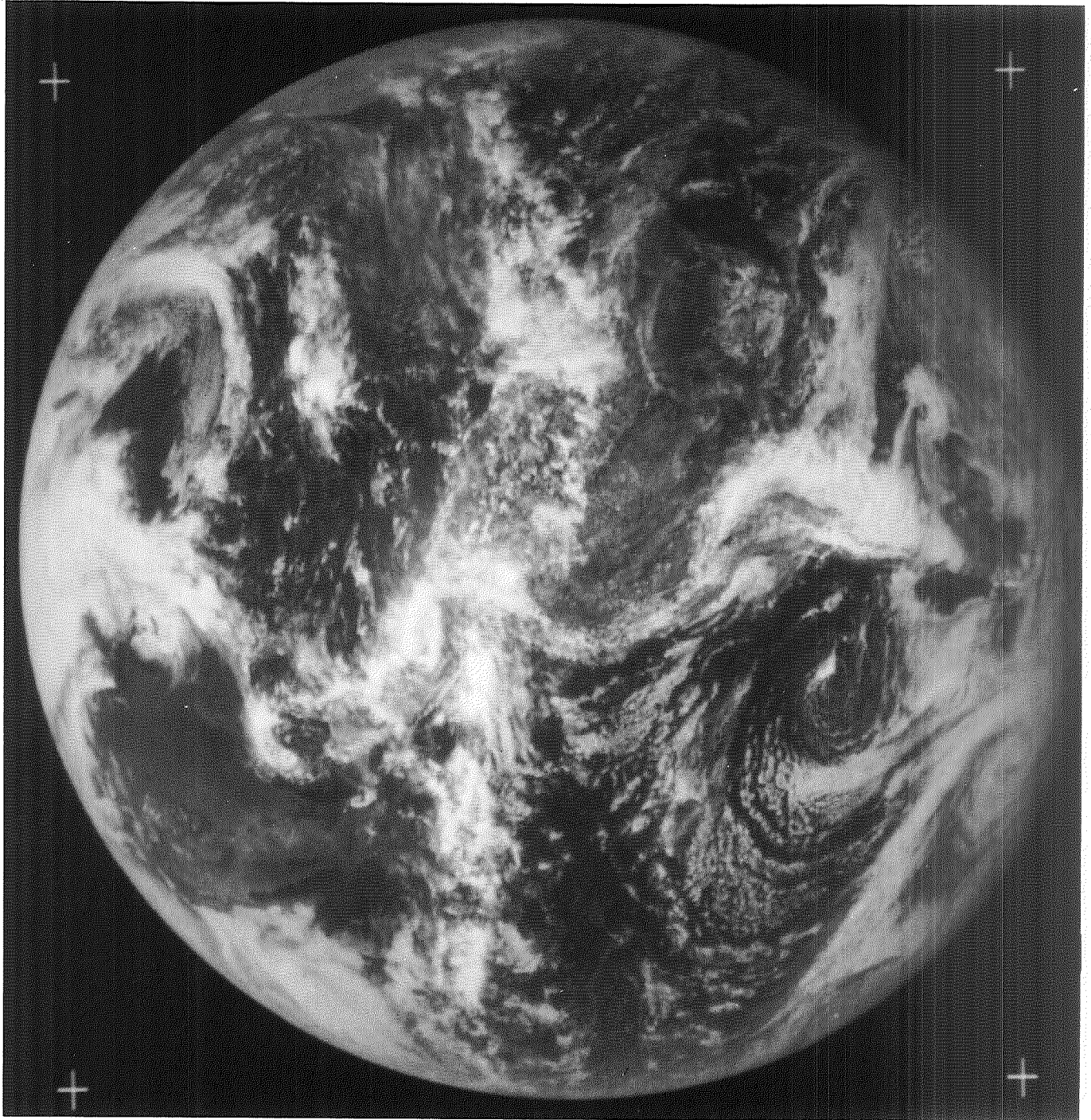
ATS-III MSSCC 16 MAY 70 17 28 54 Z 5

MSSCC

17 May 70

SSP 71.52W 0.38S

Seq	End Time	Remarks
1	14 54 15	
2	15 20 22	
3	15 46 28	
4	16 12 37	
5	16 38 43	
6	17 04 49	
7	17 30 56	
8	17 57 05	
9	18 23 11	
10	18 49 17	
11	19 15 22	
12	19 50 33	Neg Partially Exposed on East Side
13	20 16 39	
14	20 42 48	
15	21 08 54	
16	21 35 03	
17	22 01 10	
18	22 27 19	
19	22 53 25	
20	23 19 31	
21	23 45 41	



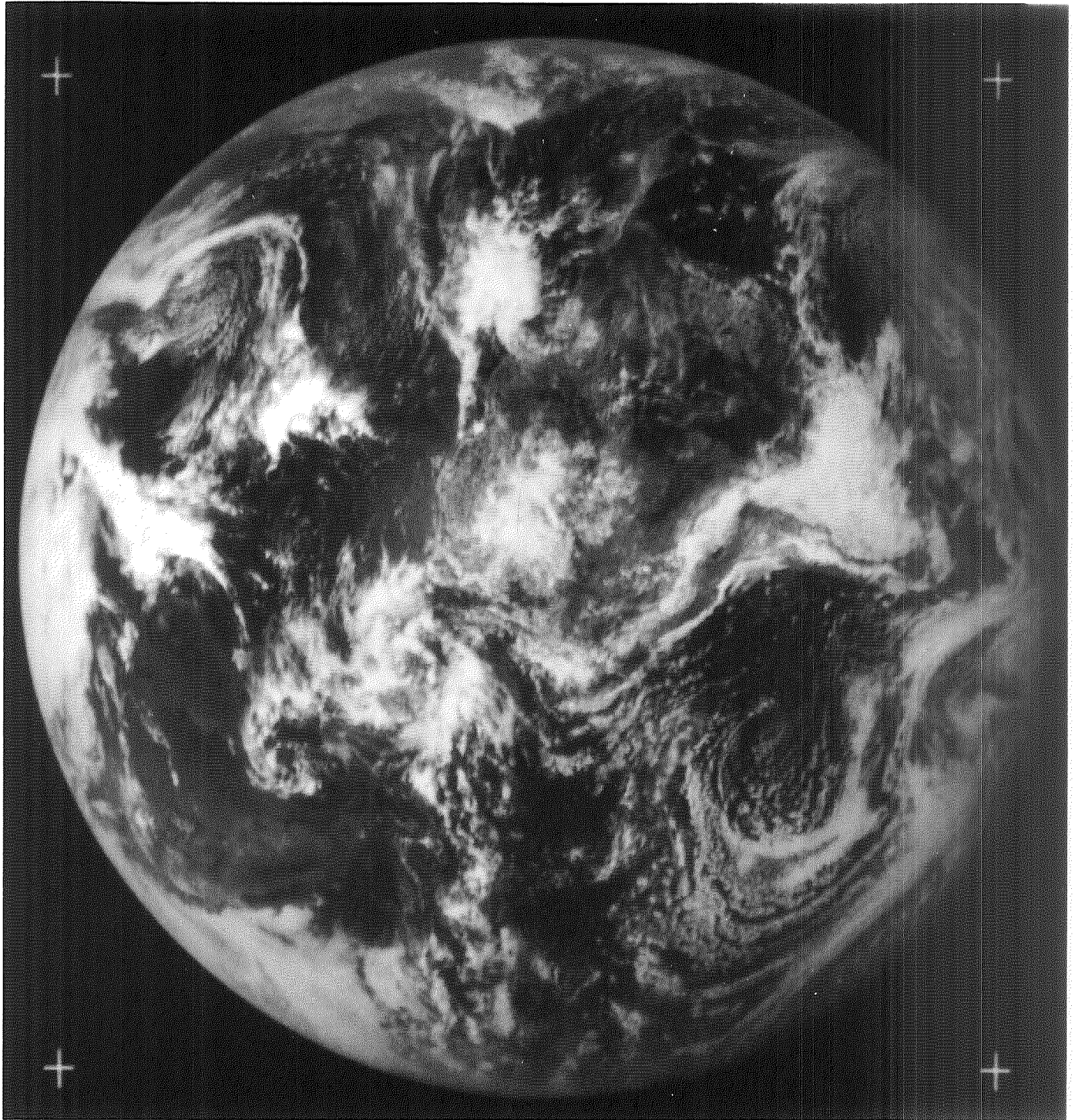
ATS-III MSSCC 17 MAY 70 17 04 49 Z 6

MSSCC

18 May 70

SSP 71.37W 0.36S

Seq	End Time	Remarks
1	14 54 06	
2	15 20 13	
3	15 46 19	
4	16 12 28	
5	16 38 35	
6	17 04 41	
7	17 30 47	



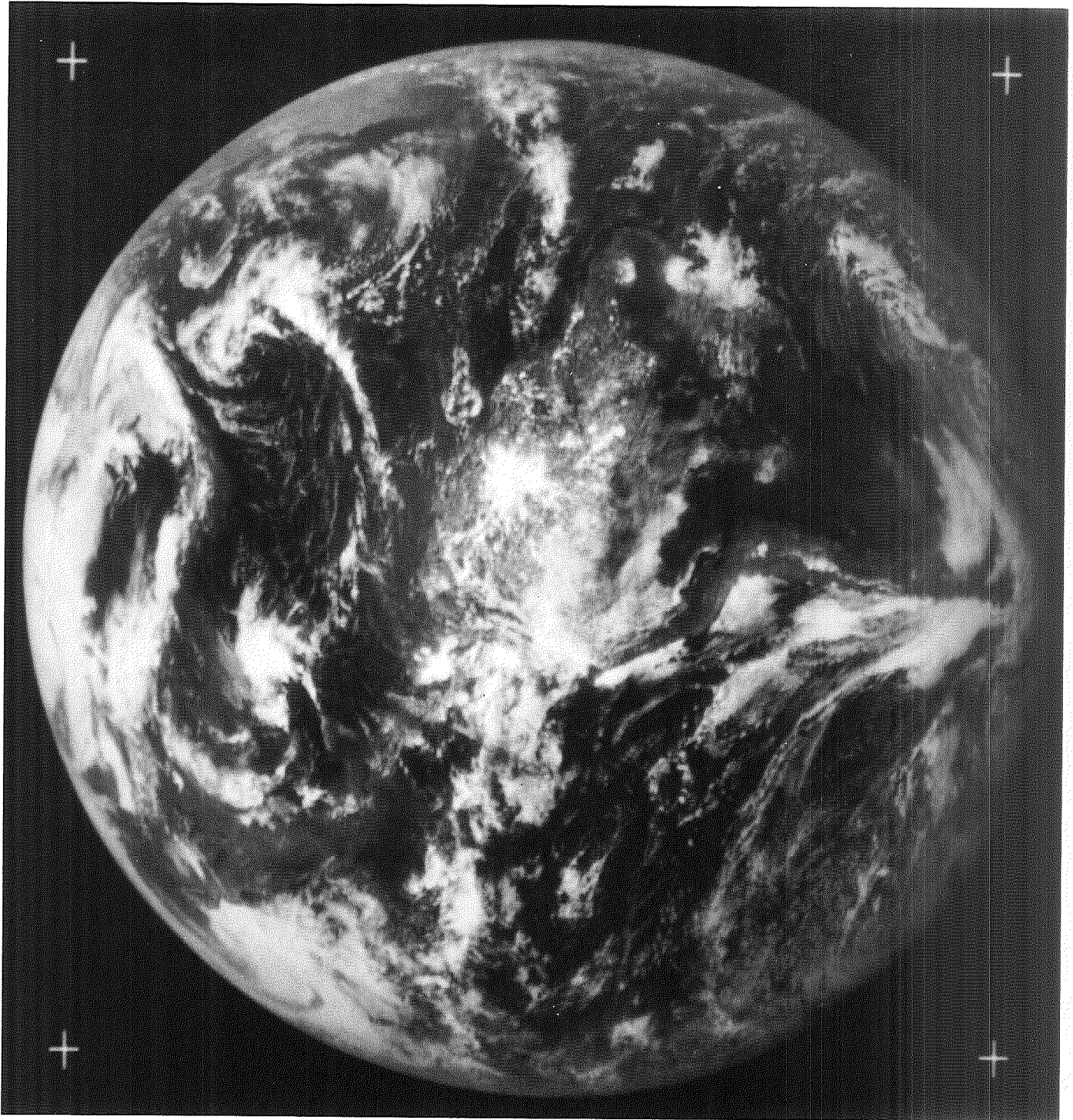
ATS-III MSSC 18 MAY 70 16 12 28 Z 4

MSSCC

24 May 70

SSP 70.50W 0.28S

Seq	End Time	Remarks
1	14 55 30	
2	15 21 36	
3	15 47 42	
4	16 13 49	
5	16 39 58	
6	17 06 04	



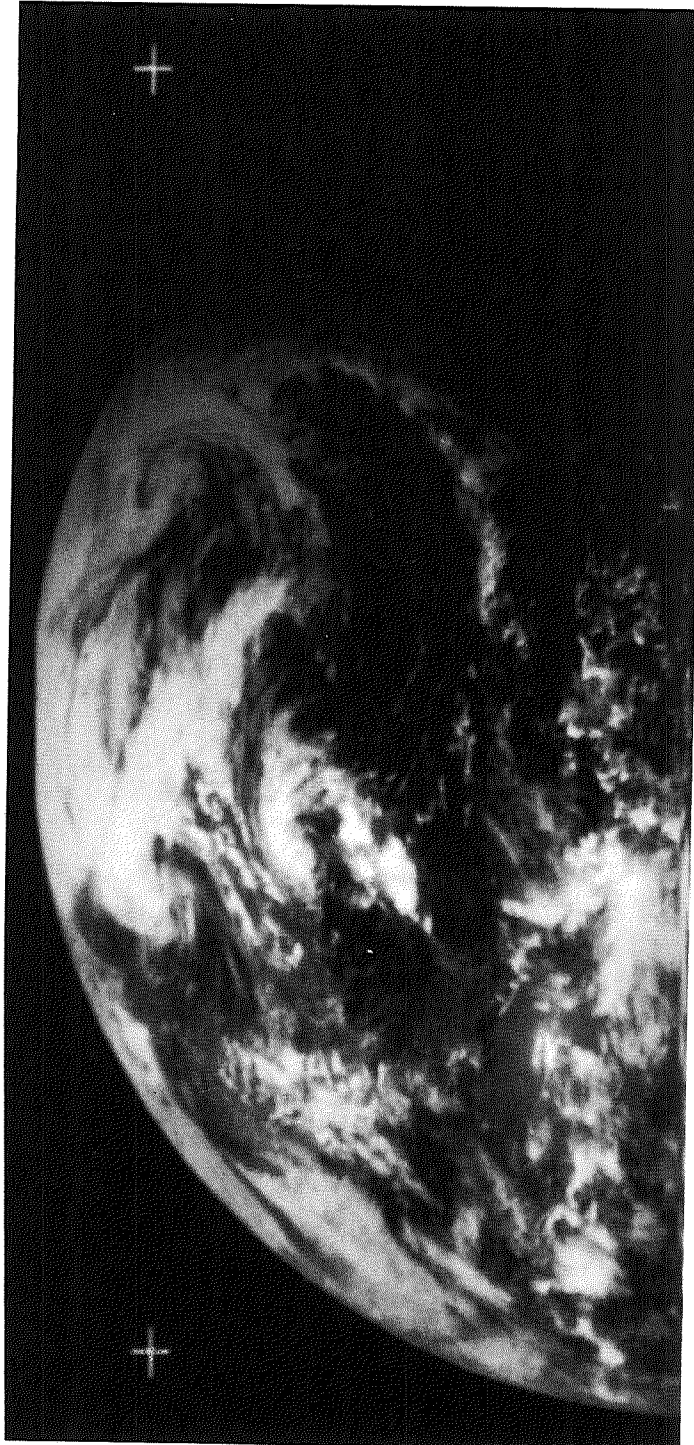
ATS-III MSSCC 24 MAY 70 16 39 58 Z 5

MSSCC

25 May 70

SSP 70.35W 0.27S

Seq	End Time	Remarks
1	19 03 06	Half Scan
2	19 15 52	Half Scan
3	19 31 58	Half Scan
4	19 48 23	Half Scan
5	20 01 44	Half Scan
6	20 14 38	Half Scan
7	20 26 48	Half Scan
8	20 38 31	Half Scan
9	20 49 56	Half Scan
10	21 01 21	Half Scan
11	21 24 53	Half Scan
12	21 36 21	Half Scan
13	21 47 23	No Data
14	22 00 46	Half Scan



ATS-III MSSCC 25 MAY 70 20 26 48 Z 7



SECTION 5

THE ATS-III MSSCC TAPE LISTINGS

The Multicolor Spin Scan Cloud Camera analog data tape (green channel only) listing was compiled by the University of Wisconsin. A listing of MSSCC digital tapes archived at the University of Wisconsin follows the analog listing. Information relative to content and availability may be obtained from:

The University of Wisconsin
ATS Program Manager
Space Science and Engineering Center
1225 West Dayton Street
Madison, Wisconsin 53706
Telephone: (608) 262-1023

Table 5-1
MSSCC Analog Data Tapes
(Green Channel Only)
Available at the University of Wisconsin
(Reels 1-29 are listed in Vol. 4, this series)

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Reel 30					
Track F1	210/9	09	26	1	
	210/9	09	38	2	
	210/9	09	51	3	
	210/9	10	04	4	
	210/9	10	17	5	
	210/9	10	29	6	
	210/9	10	42	7	
	210/9	10	55	8	
	210/9	11	08	9	
	210/9	11	21	10	
	210/9	11	33	11	
	210/9	11	46	12	
	210/9	12	25	13	
	210/9	12	38	14	
Track R2	210/9	12	53	15	
	210/9	13	09	16	
	210/9	13	22	17	
	210/9	13	35	18	
	210/9	13	47	19	
	210/9	14	00	20	
	210/9	14	13	21	
	210/9	14	26	22	
Track F3	210/9	20	01	23	
	210/9	20	13	24	
	210/9	20	26	25	
	210/9	20	39	26	
	210/9	20	52	27	
	210/9	21	05	28	
	210/9	21	18	29	
	210/9	21	30	30	
Track R4	210/9	21	43	31	
	210/9	21	56	32	
	210/9	22	09	33	
	210/9	22	22	34	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	210/9	22	34	35	
	210/9	22	47	36	
	211/9	09	22	1	
	211/9	09	35	2	
	211/9	09	47	3	
	211/9	10	00	4	
	211/9	10	13	5	
	211/9	10	26	6	
Track F5	211/9	10	38	7	
	211/9	10	51	8	
	211/9	11	04	9	
	211/9	11	17	10	
	211/9	11	29	11	
	211/9	11	32	12	
	211/9	12	21	13	
	211/9	12	33	14	
	211/9	12	46	15	
	211/9	13	01	16	
	211/9	13	33	17	
	211/9	13	45	18	
	Track R6	211/9	13	58	19
211/9		14	11	20	
211/9		14	24	21	
211/9		14	37	22	
211/9		14	50	23	
211/9		15	02	24	
211/9		15	15	25	
211/9		15	28	26	
211/9		15	41	27	
211/9		15	54	28	
211/9		16	06	29	
211/9		16	19	30	
211/9		16	32	31	
Track F7	211/9	16	45	32	
	211/9	16	58	33	
	211/9	17	18	34	
	211/9	17	31	35	
	211/9	17	43	36	
	211/9	17	56	37	
	211/9	18	09	38	
	211/9	18	22	39	
	211/9	18	35	40	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	211/9	18	47	41	
	211/9	19	00	42	
	211/9	19	13	43	
	211/9	19	26	44	
<hr/>					
Reel 31					
Track F1	211/9	19	51	46	
	211/9	20	04	47	
	211/9	20	17	48	
	211/9	20	30	49	
	211/9	20	42	50	
	211/9	20	55	51	
	211/9	21	08	52	
	211/9	21	21	53	
	211/9	21	34	54	
	211/9	21	47	55	
	211/9	21	59	56	
	211/9	22	12	57	
	211/9	22	25	58	
	Track R2	211/9	22	38	59
212/9		09	08	1	
212/9		09	21	2	
212/9		09	33	3	
212/9		09	46	4	
212/9		09	59	5	
212/9		10	12	6	
212/9		10	25	7	
212/9		10	37	8	
212/9		10	50	9	
212/9		11	03	10	
Track F3	212/9	11	15	11	
	212/9	11	28	12	
	212/9	12	12	13	
	212/9	12	19	14	
	212/9	12	32	15	
	212/9	12	45	16	
	212/9	12	58	17	
	212/9	13	11	18	
	212/9	13	23	19	
	212/9	13	36	20	
	212/9	13	49	21	
	212/9	14	02	22	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	212/9	14	15	23	
	212/9	14	29	24	
	212/9	14	42	25	
	212/9	14	55	26	
	212/9	15	08	27	
	212/9	15	21	28	
	212/9	15	34	29	
	212/9	15	46	30	
	212/9	15	59	31	
	212/9	16	12	32	
	212/9	16	25	33	
	212/9	16	39	34	
	212/9	16	52	35	
	212/9	17	05	36	
Track F5	212/9	17	18	37	
	212/9	17	31	38	
	212/9	17	43	39	
	212/9	17	56	40	
	212/9	18	09	41	
	212/9	18	22	42	
	212/9	18	35	43	
	212/9	18	47	44	
	212/9	19	02	45	
	212/9	19	17	46	
	212/9	19	30	47	
	212/9	19	43	48	
	Track R6	212/9	19	55	49
212/9		20	09	50	
212/9		20	21	51	
212/9		20	34	52	
214/9		14	41	1	
214/9		14	54	2	
214/9		15	07	3	
214/9		15	22	4	
214/9		15	35	5	
214/9		15	50	6	
214/9		16	03	7	
Track F7	214/9	16	16	8	
	214/9	16	28	9	
	214/9	16	41	10	
	214/9	16	54	11	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	214/9	17	07	12	
	214/9	17	19	13	
	214/9	17	32	14	
	214/9	17	45	15	
	214/9	17	58	16	
	214/9	18	10	17	
Reel 36A					
Track F1	288/9	20	02	39	
	288/9	20	15	40	
	288/9	20	28	41	
	288/9	20	41	42	
	292/9	10	27	1	
	292/9	10	53	2	
	292/9	12	41	3	
	292/9	13	07	4	
Track R2	292/9	13	32	5	
	292/9	13	58	6	
	292/9	14	24	7	
	292/9	16	36	8	
	292/9	17	02	9	
Track F3	292/9	17	28	10	
	292/9	17	53	11	
	292/9	18	19	12	
	292/9	18	45	13	
	292/9	19	10	14	
Track R4	292/9	19	36	15	
	292/9	20	02	16	
	292/9	20	27	17	
	293/9	10	12	1	
	293/9	10	25	2	
	293/9	10	38	3	
Track F5	293/9	10	51	4	
	293/9	11	03	5	
	293/9	11	16	6	
	293/9	11	29	7	
	293/9	11	42	8	
	293/9	11	55	9	
	293/9	12	08	10	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R6	293/9	12	21	11	
	293/9	12	33	12	
	293/9	12	46	13	
	293/9	12	59	14	
	293/9	13	12	15	
	293/9	13	25	16	
	293/9	13	38	17	
Track F7	293/9	13	50	18	
	293/9	14	03	19	
	293/9	14	47	20	
	293/9	14	59	21	
	293/9	15	12	22	
	293/9	15	25	23	
	293/9	15	38	24	
	293/9	15	50	25	Tape Change
Reel 36B					
Track F1	293/9	16	04	26	
	293/9	16	16	27	
	293/9	16	43	28	
	293/9	17	18	29	
	293/9	17	48	30	
	293/9	18	11	31	
	293/9	18	34	32	
	293/9	19	04	33	
Track R2	293/9	19	30	34	
	293/9	19	55	35	
	293/9	20	19	36	
	293/9	20	42	37	
	293/9	21	30	38	
	294/9	10	22	1	
	294/9	10	35	2	
	294/9	10	48	3	
Track F3	294/9	11	01	4	
	294/9	11	14	5	
	294/9	11	26	6	
	294/9	11	39	7	
	294/9	11	52	8	
	294/9	12	05	9	
	294/9	12	18	10	
	294/9	12	31	11	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	294/9	12	44	12	
	294/9	13	03	13	
	294/9	13	16	14	
	294/9	13	42	15	
	294/9	14	05	16	
	294/9	14	31	17	
	294/9	14	56	18	
Track F5	294/9	15	20	19	
	294/9	15	44	20	
	294/9	16	21	21	
	294/9	16	45	22	
	294/9	17	09	23	
	294/9	17	33	24	
	294/9	17	55	25	
Track R6	294/9	18	19	26	
	294/9	18	44	27	
	294/9	19	06	28	
	294/9	19	29	29	
	294/9	19	52	30	
	294/9	20	14	31	
	294/9	20	37	32	
Track F7	295/9	10	01	1	
	295/9	10	14	2	
	295/9	10	27	3	
	295/9	10	40	4	
	295/9	10	53	5	
	295/9	11	06	6	
	295/9	11	18	7	
	295/9	11	31	8	
	295/9	11	44	9	
<hr/>					
Reel 38					
Track F1	300/9	17	33	7	
	300/9	20	20	8	
	301/9	11	12	1	
	301/9	14	50	2	
	301/9	15	25	3	
	301/9			4	Not Recorded

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F3	301/9	16	11	5	
	301/9	16	42	6	
	301/9	17	08	7	
	301/9	17	33	8	
Track F4	301/9	21	11	9	
	307/9	11	33	1	
	307/9	13	19	2	
	307/9	13	44	3	
	307/9	14	10	4	
Track F5	307/9	14	36	5	
	308/9	11	29	1	
	308/9	12	56	2	
	308/9	13	22	3	
	308/9	13	50	4	
	308/9			5	Not Recorded
Track F6	308/9	14	46	6	
	308/9	15	13	7	
	308/9	15	40	8	
	308/9	16	07	9	
	308/9	21	35	10	
Reel 38A					
Track F1	312/9	11	40	1	Started at 312
	312/9	12	36	2	
	312/9	13	03	3	
	312/9	13	31	4	
	312/9	13	56	5	
	312/9	14	25	6	Recorder stopped, 1400 lines
Track F2	312/9	14	54	7	
	312/9	15	40	8	
	312/9	16	16	9	
	313/9	11	14	1	
Track F3	313/9	13	03	2	
	313/9	13	31	3	
	313/9	13	59	4	
	313/9	14	25	5	
	313/9	14	50	6	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F4	313/9	15	16	7	
	313/9	15	42	8	
	313/9	16	28	9	
Track F5	314/9	11	38	1	
	314/9	13	21	5	
	314/9	13	47	6	
	314/9	14	12	7	
	314/9	14	38	8	
Track F6	315/9	11	44	1	
	315/9	12	10	2	
	315/9	12	36	3	
	315/9	13	01	4	
	315/9	13	27	5	
Track F7	315/9	13	53	6	
	315/9	14	19	7	
	315/9	14	44	8	
<hr/>					
Reel 39					
Track F1	316/9	11	40	1	
	316/9	12	06	2	
	316/9	12	31	3	
	316/9	12	57	4	
	316/9	13	23	5	
Track F3	316/9	13	49	6	
	316/9	14	44	7	
	316/9	14	40	8	
	317/9	12	14	1	
	317/9	12	44	2	
Track F5	317/9	13	18	3	
	317/9	13	45	4	
	317/9	14	09	5	
	317/9	14	33	6	
	317/9	15	19	7	
	317/9	15	41	8	
	318/9	11	28	1	
Track R6	318/9	11	53	2	
	318/9	12	19	3	
	318/9	12	45	4	
	318/9	13	10	5	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	318/9	13	36	6	
	318/9	14	02	7	
	318/9	14	34	8	
<hr/>					
Reel 40					
Track F1	319/9	11	35	1	
	319/9	12	01	2	
	319/9	12	26	3	
	319/9	12	52	4	
Track R2	319/9	13	18	5	
	319/9	13	43	6	
	319/9	14	09	7	
	319/9	14	35	8	
Track F3	320/9	11	29	1	
	320/9	11	55	2	
	320/9	12	20	3	
	320/9	12	36	4	
Track R4	320/9	13	29	5	
	320/9	13	55	6	
	320/9	14	21	7	
	320/9	14	46	8	
Track F5	321/9	11	29	1	
	321/9	11	54	2	
	321/9	12	20	3	
	321/9	12	46	4	
Track R6	321/9	13	29	5	
	321/9	13	55	6	
	321/9	14	20	7	
Track F7	321/9	14	46	8	
	321/9	21	02	9	
	322/9	11	31	1	
	322/9	11	57	2	
<hr/>					
Reel 40A					
Track F1	322/9	12	49	4	
	322/9	13	14	5	
	322/9	13	40	6	
	322/9	14	06	7	
	322/9	14	31	8	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R2	323/9	11	37	1	
	323/9	12	02	2	
	323/9	12	28	3	
	323/9	12	54	4	
Track F3	323/9	13	19	5	
	323/9	13	45	6	
	323/9	14	11	7	
	323/9	14	36	8	
Track R4	324/9	11	49	1	
	324/9	12	20	2	
	324/9	12	46	3	
Track F5	324/9	13	12	4	
	324/9	13	37	5	
	324/9	14	03	6	
	324/9	14	24	7	
Track R6	324/9	14	55	8	
	325/9	11	48	1	
	325/9	12	14	2	
Track F7	325/9	12	59	3	
	325/9	13	24	4	
	325/9	13	50	5	
	325/9	14	16	6	
<hr/>					
Reel 41					
Track F1	325/9	15	07	8	
	326/9	11	29	1	
	326/9	11	55	2	
	326/9	12	20	3	
Track R2	326/9	12	46	4	
	326/9	13	12	5	
	326/9	13	37	6	
	326/9	14	03	7	
Track F3	326/9	14	29	8	
	327/9	11	41	1	Not Good
	328/9	11	58	1	
	328/9	12	24	2	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	328/9	12	50	3	
	328/9	13	19	4	
	328/9	13	42	5	
	328/9	14	10	6	
Track F5	328/9	14	36	7	
	328/9	15	02	8	
<hr/>					
Reel 42					
Track F1	329/9	11	40	1	
	329/9	13	23	2	
	329/9	13	53	3	
	329/9	14	19	4	
	329/9	14	45	5	
Track F3	329/9	15	36	7	
	329/9	16	06	8	
	329/9	16	32	9	
	329/9	21	15	10	
	330/9	11	17	1	
Track R2	330/9	11	43	2	
	330/9	12	09	3	
	330/9	12	34	4	
	330/9	13	00	5	
Track F4	330/9	13	26	6	
	330/9	13	50	7	
	330/9	14	17	8	
	331/9	11	25	1	
Track R5	331/9	11	51	2	
	331/9	12	17	3	
	331/9	12	42	4	
	331/9	13	08	5	
Track F6	331/9	13	34	6	
	331/9	13	59	7	
	331/9	14	25	8	
	332/9	11	45	1	
Track R7	332/9	12	11	2	
	332/9	12	37	3	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R7	332/9	13	02	4	
	332/9	13	28	5	
Reel 43					
Track F1	332/9	14	19	7	
	332/9	14	45	8	
	333/9	13	36	1	
	333/9	14	01	2	
Track R2	333/9	14	27	3	
	333/9	14	53	4	
	333/9	15	18	5	
	333/9	15	44	6	
Track F3	333/9	16	10	7	
	333/9	16	35	8	
	334/9	11	16	1	
	334/9	12	59	2	
Track R4	334/9	13	24	3	
	334/9	13	57	4	
	334/9	14	19	5	
	334/9	14	44	6	
Track F5	334/9	15	10	7	
	334/9	15	36	8	
	334/9	16	01	9	
	334/9	21	15	10	
Track R6	335/9	11	15	1	
	335/9	13	44	2	
	335/9	14	09	3	
	335/9	14	35	4	
Track F7	335/9	15	01	5	
	335/9	15	26	6	
	335/9	15	52	7	
	335/9	16	18	8	
Reel 44					
Track F1	351/9	14	50	1	
	351/9	15	16	2	
	351/9	15	41	3	
	351/9	16	07	4	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R2	351/9	16	42	5	
	351/9	17	08	6	
	351/9	17	33	7	
Track F3	351/9	21	06	8	
	354/9	14	23	1	
	354/9	14	48	2	
	354/9	15	14	3	
	354/9	15	40	4	
Track R4	354/9	16	05	5	
	354/9	16	31	6	
	354/9	16	51	7	
	354/9	20	58	8	
Track F5	355/9	11	14	1	
	355/9	13	58	2	
	355/9	14	23	3	
	355/9	14	49	4	
Track R6	355/9	15	15	5	
	355/9	15	41	6	
	355/9	16	06	7	
	355/9	16	32	8	
Track F7	355/9	21	11	9	
<hr/>					
Reel 45					
Track F1	356/9	15	19	1	
	356/9	15	44	2	
	356/9	16	10	3	
	356/9	16	36	4	
Track R2	356/9	17	02	5	
	356/9	17	27	6	
	356/9	17	53	7	
Track F3	358/9	14	13	1	
	358/9	14	26	2	
	358/9	14	39	3	
	358/9	14	52	4	
	358/9	15	05	5	
	358/9	15	19	6	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F3	358/9	15	32	7	
	358/9	15	45	8	
	358/9	15	58	9	
Track R4	358/9	16	10	10	
	358/9	16	23	11	
	358/9	16	36	12	
	358/9	16	49	13	
	358/9	17	01	14	
	358/9	17	15	15	
	358/9	17	28	16	
	358/9	17	41	17	
	358/9	17	54	18	
Track F5	358/9	18	07	19	
	358/9	18	20	20	
	358/9	18	35	21	
	358/9	18	48	22	
	358/9	19	15	23	
	358/9	19	29	24	
Track R6	358/9	19	42	25	
	358/9	19	55	26	
	358/9	20	21	27	
	358/9	20	32	28	
	358/9	20	46	29	
	358/9	21	00	30	
Track F7	358/9	21	21	31	
	358/9			32	
Reel 46					
Track F1	362/9	15	14	1	
	362/9	15	39	2	
	362/9	16	05	3	
	362/9	21	15	4	
	363/9	11	13	1	
Track R2	363/9	13	30	2	
	363/9	13	56	3	
	363/9	14	21	4	
	363/9	14	47	5	
	363/9	15	13	6	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F3	363/9	15	39	7	
	363/9	16	04	8	
	363/9	21	08	9	
	364/9	11	14	1	
	364/9	13	23	2	
Track R4	364/9	13	48	3	
	364/9	14	14	4	
	364/9	14	40	5	
	364/9	15	06	6	
	364/9	15	31	7	
Track F5	364/9	15	57	8	
	364/9	21	09	9	
	365/9	11	11	1	
	365/9	13	20	2	
	365/9	13	46	3	
Track R6	365/9	14	11	4	
	365/9	14	37	5	
	365/9	15	03	6	
	365/9	15	29	7	
	365/9	15	54	8	
Track F7	365/9	21	10	9	
	004/0	11	16	1	
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Reel 47					
Track F1	004/0	13	25	2	
	004/0	13	51	3	
	004/0	14	17	4	
	004/0	14	42	5	
	004/0	15	08	6	
Track R2	004/0	15	34	7	
	004/0	16	00	8	
	004/0	21	12	9	
	005/0	14	23	1	
	005/0	14	48	2	
Track F3	005/0	15	14	3	
	005/0	15	40	4	
	005/0	16	06	5	
	005/0	16	31	6	
	005/0	16	57	7	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	005/0	21	18	8	
	006/0	14	16	1	
	006/0	14	42	2	
	006/0	15	22	3	
	006/0	15	33	4	
	006/0	15	44	5	
Track F5	006/0	15	54	6	
	006/0	16	05	7	
	006/0	16	16	8	
	006/0	16	44	9	
	006/0	16	55	10	
	006/0	17	06	11	
	006/0	17	16	12	
	006/0	17	27	13	
	006/0	17	38	14	
	006/0	17	49	15	
	006/0	18	20	16	
Track R6	006/0	18	22	17	
	006/0	18	34	18	
	006/0	18	50	19	
	006/0	19	01	20	
	006/0	19	13	21	
	006/0	19	25	22	
	006/0	19	37	23	
	006/0	19	48	24	
Track F7	006/0	20	09	25	
	006/0	20	20	26	
	006/0	20	32	27	
	006/0	20	44	28	
	006/0	20	56	29	
	006/0	21	07	30	
	006/0	21	20	31	
	006/0	21	32	32	
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Reel 48					
Track F1	006/0	21	56	34	
	006/0	22	11	35	
	006/0	22	22	36	
	007/0	14	16	1	
	007/0	14	27	2	
	007/0	14	38	3	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F1	007/0	14	49	4	
	007/0	15	00	5	
	007/0	15	11	6	
	007/0	15	21	7	
	007/0	15	32	8	
Track R2	007/0	15	43	9	
	007/0	15	53	10	
	007/0	16	04	11	
	007/0	16	15	12	
	007/0	16	27	13	
	007/0	16	37	14	
	007/0	16	48	15	
	007/0	16	59	16	
	007/0	17	10	17	
	007/0	17	20	18	
	007/0	17	31	19	
Track F3	007/0	17	42	20	
	007/0	17	53	21	
	007/0	18	05	22	
	007/0	18	17	23	
	007/0	18	29	24	
	007/0	18	40	25	
	007/0	18	54	26	
	007/0	19	06	27	
	007/0	19	18	28	
Track R4	007/0	19	30	29	
	007/0	19	42	30	
	007/0	19	53	31	
	007/0	20	05	32	
	007/0	20	17	33	
	007/0	20	29	34	
	007/0	20	41	35	
	007/0	20	53	36	
Track F5	007/0	21	08	37	
	007/0	21	20	38	
	007/0	21	32	39	
	007/0	21	44	40	
	007/0	21	55	41	
	007/0	22	07	42	
	007/0	22	18	43	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R6	010/0	14	14	1	
	010/0	14	40	2	
	010/0	15	06	3	
	010/0	15	32	4	
	010/0	15	57	5	
Track F7	010/0	16	23	6	
	010/0	16	49	7	
	010/0	21	13	8	
Reel 49					
Track F1	011/0	14	15	1	
	011/0	14	41	2	
	011/0	15	07	3	
	011/0	15	33	4	
	011/0	15	58	5	
Track R2	011/0	16	24	6	
	011/0	16	52	7	
	011/0	21	10	8	
	012/0	14	15	1	
Track F3	012/0	14	41	2	
	012/0	15	07	3	
	012/0	15	33	4	
	012/0	15	59	5	
	012/0	16	24	6	
Track R4	012/0	16	50	7	
	012/0	21	10	8	
	013/0	14	37	1	
Track F5	013/0	15	03	2	
	013/0	15	28	3	
	013/0	15	54	4	
	013/0	16	20	5	
Track R6	013/0	16	46	6	
	013/0	17	12	7	
	013/0	21	13	8	
Reel 50					
Track F1	025/0	14	45	1	
	025/0	15	26	2	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F1	025/0	15	51	3	
	025/0	16	17	4	
Track R2	025/0	16	43	5	
	025/0	17	09	6	
	025/0	21	18	7	
	026/0	14	17	1	
Track F3	026/0	14	42	2	
	026/0	15	08	3	
	026/0	15	34	4	
	026/0	16	00	5	
Track R4	026/0	16	25	6	
	026/0	16	51	7	
	026/0	21	14	8	
	027/0	14	39	1	
	027/0	15	05	2	
Track F5	027/0	15	30	3	
	027/0	15	56	4	
	027/0	16	22	5	
	027/0	16	48	6	
	027/0	17	13	7	
Track R6	027/0	17	42	8	
	027/0	18	08	9	
	027/0	18	33	10	
	027/0	18	59	11	
	028/0	14	17	1	
Track F7	028/0	14	43	2	
Reel 51					
Track F7	028/0	15	08	3	
	028/0	15	34	4	
	028/0	16	00	5	
	028/0	16	25	6	
	028/0	16	51	7	
Track R1	028/0	17	17	8	
	028/0	17	43	9	
	028/0	18	08	10	
	028/0	18	38	11	
	028/0	19	00	12	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F2	028/0	19	36	13	
	028/0	20	02	14	
	028/0	20	75	15	
	031/0	14	30	1	
Track R3	031/0	14	56	2	
	031/0	15	21	3	
	031/0	15	47	4	
	031/0	16	13	5	
	031/0	16	39	6	
Track F4	031/0	17	28	7	
	031/0	17	31	8	
	031/0	17	56	9	
	031/0	18	22	10	
	031/0	18	40	11	
	031/0	19	34	12	
Track R5	031/0	19	34	12	
	031/0	20	00	13	
	031/0	20	25	14	
	033/0	17	29	1	Approx.
Track F6	033/0	17	54	2	
	033/0	18	20	3	
	033/0	18	45	4	
	033/0	19	11	5	
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Reel 52					
Track F1	033/0	20	03	7	
	033/0	20	28	8	
	034/0	14	15	1	Approx.
	034/0	14	30	2	Approx.
	034/0	14	46	3	Approx.
	034/0	15	00	4	Approx.
Track R2	034/0	15	14	5	Approx.
	034/0	15	33	6	Approx.
	034/0	15	49	7	Approx.
	034/0	16	03	8	Approx.
	034/0	16	17	9	Approx.
	034/0	16	31	10	Approx.
	034/0	16	45	11	Approx.
	034/0	17	00	12	Approx.

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R2	034/0	17	16	13	Approx.
	034/0	17	29	14	Approx.
Track F3	034/0	17	44	15	
	034/0	17	58	16	
	034/0	18	12	17	
	034/0	18	28	18	
	034/0	18	42	19	
	034/0	18	55	20	
	034/0	19	09	21	
	034/0	19	22	22	
Track R4	034/0	19	36	23	
	034/0	19	50	24	
	034/0	20	05	25	
	034/0	20	18	26	
	034/0	20	31	27	
	035/0	14	20	1	Approx.
Track F5	035/0	14	46	2	Approx.
	035/0	15	12	3	Approx.
	035/0	15	37	4	Approx.
Track R6	035/0	16	03	5	Approx.
	035/0	16	29	6	Approx.
	035/0	16	55	7	Approx.
	035/0	17	21	8	Approx.
	035/0	17	46	9	Approx.
Track F7	035/0	18	14	10	Approx.
	039/0	14	15	1	
	039/0	14	40	2	
	039/0	15	07	3	Tape Change
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Reel 53					
Track F1	039/0	15	32	4	
	039/0	15	58	5	
	039/0	16	24	6	
	039/0	16	50	7	
Track R2	039/0	17	15	8	
Track F3	039/0	18	23	9	
	039/0	18	49	10	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F3	040/0	16	25	4	
	040/0	16	51	5	
Track R4	040/0	17	17	6	
	040/0	17	43	7	
	040/0	17	56	8	
	040/0	18	10	9	
	040/0	18	23	10	
	040/0	18	36	11	
Track F5	040/0	18	49	12	
	040/0	19	15	13	
	040/0	19	20	14	
	040/0	19	42	15	
	040/0	19	55	16	
	040/0	20	09	17	
Track R6	040/0	20	22	18	
Track F7	041/0	11	16	1	
	041/0	14	47	2	
	041/0	15	16	3	
	041/0	15	47	4	
	040/0	16	16	5	
	041/0	16	41	6	
	041/0	17	07	7	
	041/0	17	35	8	
Reel 54					
Track F1	041/0	17	59	9	
	041/0	18	24	10	
	041/0	18	55	11	
	041/0	19	20	12	
	041/0	19	46	13	
	041/0	20	12	14	
	042/0	14	13	1	
Track R2	042/0	14	38	2	
	042/0	15	28	3	
	042/0	15	53	4	
	042/0	16	19	5	
Track F3	042/0	16	45	6	
	042/0	17	11	7	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F3	042/0	17	37	8	
	042/0	17	39	9	
Track R4	042/0	18	05	10	
	042/0	18	31	11	
	042/0	18	57	12	
Track F5	042/0	19	38	13	
	042/0	20	04	14	
	045/0	14	25	1	
	045/0	14	51	2	
Track R6	045/0	15	17	3	
	045/0	15	43	4	
	045/0	16	08	5	
	045/0	16	34	6	
Track F7	045/0	17	00	7	
	045/0	17	26	8	
	045/0	17	52	9	
	045/0	18	18	10	
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Reel 55					
Track F1	045/0	19	13	12	
	045/0	19	39	13	
	045/0	20	05	14	
	045/0	20	31	15	
Track R2	046/0	15	09	1	
	046/0	15	35	2	
	046/0	16	01	3	
	046/0	16	27	4	
Track F3	046/0	16	52	5	
	046/0	17	18	6	
	046/0	17	44	7	
	046/0	18	10	8	
Track R4	046/0	18	36	9	
	046/0	19	02	10	
	046/0	19	27	11	
	046/0	19	53	12	
Track F5	046/0	20	19	13	
	047/0	14	58	1	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F5	047/0	15	24	2	
	047/0	15	50	3	
Track R6	047/0	16	16	4	
	048/0	14	32	1	
	048/0	14	58	2	
	048/0	15	24	3	
Track F7	048/0	15	50	4	
	048/0	16	14	5	
	048/0	16	41	6	
	048/0	17	07	7	
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Reel 56					
Track F1	048/0	17	59	9	
	048/0	18	24	10	
	048/0	18	50	11	
	048/0	19	16	12	
Track R2	048/0	19	42	13	
	048/0	20	08	14	
	048/0	20	34	15	
	049/0	14	54	1	
Track F3	049/0	15	20	2	
	049/0	15	46	3	
	049/0	16	12	4	
	049/0	16	37	5	
Track R4	049/0	17	03	6	
	049/0	17	29	7	
	049/0	17	55	8	
	049/0	18	21	9	
Track F5	049/0	19	28	10	
	053/0	14	44	1	
	053/0	15	10	2	
	053/0	15	36	3	
Track R6	053/0	16	02	4	
	053/0	16	27	5	
	053/0	16	53	6	
	053/0	17	19	7	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	053/0	18	43	9	
	053/0	19	09	10	
	053/0	19	35	11	
	053/0	20	01	12	
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Reel 57					
Track F1	054/0	15	08	1	
	054/0	15	34	2	
	054/0	16	00	3	
	054/0	16	25	4	
Track R2	054/0	16	51	5	
	054/0	17	17	6	
	054/0	17	43	7	
	054/0	18	20	8	
Track F3	054/0	18	50	9	
	054/0	19	14	10	
	054/0	19	45	11	
Track R4	054/0	20	23	12	
	055/0	14	20	1	
	055/0	14	46	2	
	055/0	15	12	3	
Track F5	055/0	16	56	7	
	055/0	17	21	8	
	055/0	17	47	9	
Track R6	055/0	18	13	10	
	055/0	18	39	11	
	055/0	19	05	12	
Track F7	055/0	19	31	13	
	055/0	19	57	14	
	055/0	20	22	15	
<hr/>					
Reel 58					
Track F1	059/0	14	41	1	
	059/0	15	06	2	
	059/0	15	32	3	
	059/0	15	58	4	
Track R2	059/0	16	24	5	
	059/0	16	50	6	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R2	059/0	17	16	7	
	059/0	17	42	8	
Track F3	059/0	18	07	9	
	059/0	18	33	10	
	059/0	18	59	11	Restart due to loss of video
Track R4	059/0	19	54	12	
	059/0	20	22	13	
	060/0	14	55	1	
	060/0	15	21	2	
Track F5	060/0	15	47	3	
	060/0	16	13	4	
	060/0	16	39	5	
	060/0	17	05	6	
Track R6	060/0	17	31	7	
	060/0	17	56	8	
	060/0	18	22	9	
	060/0	18	48	10	
Track F7	060/0	19	14	11	
	060/0	19	46	12	
	060/0	22	05	13	
Reel 59					
Track F1	061/0	17	02	1	
	061/0	17	28	2	
	061/0	17	54	3	
	061/0	18	20	4	
Track R2	061/0	18	46	5	
	061/0	19	12	6	
	061/0	19	38	7	
	061/0	20	04	8	
Track F3	062/0	14	49	1	
	062/0	15	02	2	
	062/0	15	15	3	
	062/0	15	28	4	
	062/0	15	42	5	
	062/0	15	55	6	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F3	062/0	16	08	7	
	062/0	16	21	8	
	062/0	16	35	9	
Track R4	062/0	16	48	10	
	062/0	17	01	11	
	062/0	17	14	12	
	062/0	17	27	13	
	062/0	17	40	14	
	062/0	17	53	15	
	062/0	18	07	16	
	062/0	18	20	17	
	062/0	18	33	18	
Track F5	062/0	18	46	19	
	062/0	18	59	20	
	062/0	19	14	21	
	062/0	19	27	22	
	062/0	19	40	23	
	062/0	19	53	24	
	062/0	20	06	25	
	062/0	20	19	26	
	062/0	20	32	27	
Track R6	063/0	14	22	1	
	063/0	14	36	2	
	063/0	14	48	3	
	063/0	15	01	4	
	063/0	15	14	5	
	063/0	15	28	6	
	063/0	15	40	7	
	063/0	15	53	8	
	063/0	16	07	9	
Track F7	063/0	18	30	10	
	063/0	18	43	11	
	063/0	18	56	12	
	063/0	19	09	13	
	063/0	19	22	14	
	063/0	19	35	15	
<hr/>					
Reel 60					
Track F1	066/0	14	36	1	
	066/0	14	51	2	
	066/0	15	07	3	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F1	066/0	15	22	4	
	066/0	15	37	5	
	066/0	15	52	6	
	066/0	16	07	7	
	066/0	16	22	8	
Track R2	066/0	16	37	9	
	066/0	16	52	10	
	066/0	17	07	11	
	066/0	17	18	12	
	066/0	17	29	13	
	066/0	18	06	14	
	066/0	18	15	15	
	066/0	18	26	19	
	066/0	18	39	20	
Track F3	066/0	18	50	21	
	066/0	19	01	22	
	066/0	19	12	23	
	066/0	19	23	24	
	068/0	14	48	1	
	068/0	15	14	2	
	068/0	15	41	3	
Track R4	068/0	16	07	4	
	068/0	16	33	5	
	068/0	16	59	6	
	068/0	17	28	7	
Track F5	068/0	17	54	8	
	068/0	18	20	9	
	068/0	18	47	10	
Track R6	068/0	19	13	11	
	068/0	20	18	12	Pixs 12 & 13 ATS-I started with VCO out of lock
	068/0	20	41	13	
	069/0	14	31	1	
	069/0	14	57	2	
	Track F7	069/0	15	23	3
069/0		15	49	4	
069/0		16	15	5	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	069/0	16	41	6	
	069/0	17	07	7	
	069/0			8	Not recorded due to tape change
<hr/>					
Reel 61					
Track F1	069/0	18	00	9	
	069/0	18	26	10	
	069/0	18	52	11	
Track R2	069/0	20	02	12	ATS-I picture
	069/0	20	26	13	ATS-I picture
	070/0	14	40	1	
	070/0	15	06	2	
Track F3	070/0	15	32	3	
	070/0	15	58	4	
	070/0	16	45	5	
	070/0	17	11	6	Start 1200 line;
	070/0	17	23	7	Tornado alert
Track R4	070/0	17	36	8	
	070/0	17	47	9	
	070/0	18	08	10	
	070/0	18	20	11	
	070/0	18	40	12	
	070/0	18	51	13	
	070/0	19	02	14	
	070/0	19	19	15	
Track F5	070/0	19	30	16	
	070/0	20	39	17	Pulse Problems; ATS-
	073/0	14	20	1	III picture
Track R6	073/0	14	46	2	
	073/0	15	12	3	
	073/0	15	38	4	
	073/0	16	04	5	
	073/0	16	30	6	
Track F7	073/0	16	56	7	
	073/0	17	22	8	
	073/0	17	49	9	
	073/0	18	15	10	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Reel 61A					
Track F1	073/0	19	07	12	
	073/0	20	22	13	ATS-I Picture
	073/0	20	46	14	ATS-I Picture
	074/0	15	13	1	
	074/0	15	39	2	
Track R2	074/0	16	05	3	
	074/0	16	31	4	
	074/0	16	58	5	
	074/0	17	24	6	
	074/0	17	50	7	
Track F3	074/0	18	16	8	
	074/0	19	23	9	ATS-I Picture
	074/0	19	47	10	ATS-I Picture
	075/0	15	04	1	
	075/0	15	30	2	
Track R4	075/0	15	57	3	
	075/0	16	23	4	
	075/0	16	09	5	
	075/0	17	15	6	
Track F5	075/0	18	09	7	ATS-I Picture
	075/0	18	32	8	ATS-I Picture
	076/0	14	33	1	
	076/0	14	59	2	Tornado Alert; Line 1000
	076/0	15	10	3	
	076/0	15	21	4	
	076/0	15	32	5	
Track R6	076/0	15	43	6	
	076/0	15	54	7	
	076/0	16	05	8	
	076/0	16	16	9	
	076/0	16	26	10	
	076/0	16	37	11	
	076/0	16	48	12	
	076/0	16	59	13	
	076/0	17	10	14	
	076/0	17	21	15	
	076/0	17	31	16	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	076/0	17	42	17	
	076/0	17	53	18	
	076/0	18	04	19	
	076/0	18	15	20	
	076/0	18	26	21	
	076/0	18	37	22	
	076/0	18	48	23	
	076/0	18	59	24	
	076/0	19	10	25	
	076/0	19	21	26	
	076/0	19	31	27	
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Reel 62					
Track F1	076/0	19	54	29	
	076/0	20	04	30	
	076/0	20	15	31	
	076/0	20	26	32	
	076/0	20	37	33	
	076/0	20	48	34	
	077/0	14	30	1	Started late; Rewind Snow Alert Line 1000; Pix every half hour
	077/0	14	56	2	
	077/0	15	22	3	
	077/0	15	48	4	
	077/0	16	14	5	
Track R2	077/0	16	41	6	
	077/0	17	07	7	
	077/0	17	33	8	
	077/0	17	59	9	
	077/0	18	25	10	
	077/0	18	51	11	
	077/0	19	17	12	
	077/0	19	43	13	
	077/0	20	10	14	
	077/0	20	36	15	
Track F3	081/0	15	08	1	
	081/0	15	34	2	
	081/0	16	00	3	
	081/0	16	26	4	
	081/0	16	52	5	
Track R4	081/0	17	18	6	
	081/0	17	45	7	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	081/0	18	11	8	
	081/0	18	37	9	
	081/0	19	03	10	
Track F5	081/0	20	34	11	ATS-I Picture
	081/0	20	58	12	ATS-I Picture
	082/0	15	04	1	
	082/0	15	30	2	
	082/0	15	56	3	Stopped at line 2390; No Annotation
Track R6	082/0	16	22	4	
	082/0	16	48	5	
	082/0	17	14	6	
	082/0	17	40	7	
	082/0	18	06	8	
Track F7	082/0	18	32	9	
	082/0			10	Not good; Recorded over
	082/0	20	17	11	ATS-I Picture
	082/0	20	40	12	ATS-I Picture
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Reel 63					
Track F1	083/0	14	35	1	
	083/0	15	10	2	
	083/0	15	27	3	
	083/0	15	53	4	
	083/0	16	19	5	
Track R2	083/0	16	45	6	
	083/0	17	11	7	
	083/0	17	37	8	
	083/0	18	04	9	
	083/0	18	30	10	
Track F3	083/0	18	56	11	
	084/0	16	26	1	
	084/0	16	37	2	
	084/0	16	47	3	
	084/0	16	58	4	
	084/0	17	09	5	
	084/0	17	20	6	
084/0	17	31	7		

Reel & Track No.	Day	GM Time		Sequence No.	Remarks	
		Hr.	Min.			
Track F3	084/0	17	42	8		
	084/0	17	52	9		
Track R4	084/0	18	03	10		
	084/0	18	14	11		
	084/0	18	25	12		
	084/0	18	36	13		
	084/0	18	47	14		
	084/0	18	58	15		
	084/0	19	09	16		
	084/0	19	20	17		
	084/0	19	31	18		
	084/0	19	41	19		
	084/0	19	52	20		
	Track F5	084/0	20	03	21	
084/0		20	16	22		
084/0		20	27	23		
084/0		20	38	24		
084/0		20	49	25		
087/0		14	16	1		
087/0		14	27	2		
087/0		14	38	3		
087/0		14	49	4		
087/0		15	00	5		
087/0		15	10	6	May not be recorded	
Track R6		087/0	15	21	7	
		087/0	15	32	8	
	087/0	15	43	9		
	087/0	15	54	10		
	087/0	16	05	11		
	087/0	16	16	12		
	087/0	16	26	13		
	087/0	16	37	14		
	087/0	16	47	15		
	087/0	16	59	16		
	087/0	17	12	17		
Track F7	087/0	17	23	18		
	087/0	17	34	19		
	087/0	17	45	20		
	087/0	17	56	21		
	087/0	18	07	22		

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	087/0	18	18	23	
	087/0	18	29	24	
	087/0	18	40	25	
	087/0	18	51	26	
	087/0	19	06	27	
	087/0	19	17	28	
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Reel 64					
Track F1	087/0	19	40	30	
	087/0	19	50	31	
	087/0	20	02	32	
	087/0	20	13	33	
	087/0	20	24	34	
	087/0	20	35	35	
	087/0	20	46	36	
	087/0	20	57	37	
	087/0	21	07	38	
	087/0	21	18	39	
	087/0	21	29	40	
	Track R2	087/0	21	40	41
087/0		21	51	42	
087/0		22	02	43	
087/0		22	13	44	
087/0		22	24	45	
087/0		22	34	46	
087/0		22	45	47	
087/0		22	56	48	
087/0		23	07	49	
087/0		23	18	50	
087/0		23	29	51	
Track F3		087/0	23	40	52
	089/0	14	59	1	
	089/0	15	25	2	
	089/0	15	51	3	
	089/0	16	17	4	
Track R4	089/0	16	43	5	
	089/0	17	10	6	
	091/0	12	07	1	
	091/0	12	33	2	
Track F5	091/0	13	03	3	
	091/0	13	29	4	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F5	091/0	13	57	5	
	091/0	14	23	6	
	091/0	14	50	7	Ran out of Tape
Track R6	091/0	15	16	8	
	091/0	15	42	9	
	091/0	16	08	10	
	091/0	16	34	11	
	091/0	16	45	12	
Track F7	091/0	17	11	13	
	091/0	17	22	14	
	091/0	17	48	15	
	091/0	17	59	16	
	091/0	18	25	17	
	091/0	18	36	18	
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Reel 65					
Track F1	091/0	19	13	20	
	091/0	19	39	21	No PCM Support for Day 091/0 1940 - 2158
	091/0	20	06	22	
	091/0	20	32	23	
Track R2	091/0	21	17	24	
	091/0	21	43	25	
	091/0	22	09	26	
	091/0	22	20	27	
	091/0	22	46	28	
Track F3	091/0	22	57	29	
	091/0	23	23	30	
	091/0	23	34	31	
	101/0	15	33	1	
	101/0	15	59	2	
Track R4	103/0	14	24	1	
	103/0	14	50	2	
	103/0	15	17	3	
	104/0	14	28	1	
Track F5	105/0	15	09	1	
	105/0	15	35	2	
	108/0	14	21	1	
	108/0	14	48	2	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R6	108/0	15	14	3	
	108/0	15	40	4	
	108/0	16	06	5	
	109/0	14	24	1	
	109/0	14	50	2	
Track F7	109/0	15	16	3	
	110/0	14	21	1	
	110/0	14	47	2	
	110/0	15	14	3	
	110/0	15	40	4	
Reel 66					
Track F1	112/0	14	19	1	
	112/0	14	31	2	
	112/0	14	45	3	
	112/0	14	53	4	
	112/0	15	05	5	
	112/0	15	15	6	
	112/0	15	26	7	
	112/0	15	37	8	
	112/0	15	48	9	
	112/0	15	59	10	
	112/0	16	10	11	
Track R2	112/0	16	21	12	
	112/0	16	32	13	
	112/0	16	43	14	
	112/0	16	54	15	
	112/0	17	05	16	
	112/0	17	16	17	
	112/0	17	27	18	
	112/0	17	39	19	
	112/0	17	49	20	
	112/0	18	00	21	
	112/0	18	12	22	
Track F3	112/0	18	27	23	
	112/0	18	38	24	
	112/0	18	49	25	
	112/0	18	59	26	
	112/0	19	10	27	
	112/0	19	31	28	
	112/0	19	32	29	
	112/0	19	43	30	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F3	112/0	19	54	31	
	112/0	20	05	32	
	112/0	20	16	33	
Track R4	112/0	20	27	34	
	112/0	20	38	35	
	112/0	20	49	36	
	112/0	21	00	37	
	112/0	21	18	38	
	112/0	21	29	39	
	112/0	21	40	40	
	112/0	21	51	41	
	112/0	22	02	42	
	112/0	22	13	43	
Track F5	116/0	14	29	1	
	116/0	14	40	2	
	116/0	14	51	3	
	116/0	15	01	4	
	116/0	15	12	5	
	116/0	15	23	6	
	116/0	15	34	7	
	116/0	15	45	8	
	116/0	15	56	9	
	116/0	16	07	10	
	116/0	16	18	11	
Track R6	116/0	16	29	12	
	116/0	16	40	13	
	117/0	14	20	1	
	117/0	14	46	2	
	117/0	15	12	3	
	117/0	15	38	4	
	117/0	15	49	5	
Track F7	117/0	16	00	6	
	117/0	16	11	7	
	117/0	16	22	8	
	117/0	16	33	9	
	117/0	16	44	10	
	117/0	16	55	11	
	117/0	17	28	12	
	117/0	17	39	13	
	117/0	17	51	14	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks	
		Hr.	Min.			
Track F7	117/0	18	02	15		
	117/0	18	14	16		
Reel 67						
Track F1	117/0	18	36	18		
	117/0	18	47	19	Intermittent core problems	
	117/0	18	58	20	Intermittent core problems	
	117/0	19	09	21		
	117/0	19	21	22		
	117/0	19	32	23		
	117/0	19	43	24		
	117/0	19	54	25	Intermittent core problems	
	117/0	20	05	26		
	117/0	20	26	27		
	117/0	20	28	28		
	Track R2	117/0	20	39	29	
		117/0	20	50	30	
		117/0	21	01	31	
117/0		21	13	32		
117/0		21	34	33		
117/0		21	35	34		
117/0		21	46	35		
118/0		14	21	1		
118/0		14	32	2		
118/0		14	43	3		
Track F3	118/0	15	05	5		
	118/0	15	16	6		
	118/0	15	27	7		
	118/0	15	37	8		
	118/0	15	48	9		
	118/0	15	59	10		
	118/0	16	01	11		
	118/0	16	21	12		
	118/0	16	32	13		
	118/0	16	43	14		
	118/0	16	53	15		
118/0	17	05	16			

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	118/0	17	16	17	
	118/0	17	27	18	
	118/0	17	39	19	
	118/0	17	50	20	
	118/0	18	01	21	
	118/0	18	12	22	
	118/0	18	24	23	
	118/0	18	35	24	
	118/0	18	46	25	
	118/0	18	57	26	
	118/0	19	13	27	
Track F5	118/0	19	24	28	
	118/0	19	36	29	
	118/0	19	47	30	
	118/0	19	58	31	
	118/0	20	09	32	
	118/0	20	19	33	
	118/0	20	30	34	
	118/0	20	41	35	
	118/0	20	52	36	
118/0	21	03	37		
Track R6	118/0	21	14	38	
	118/0	21	25	39	
	118/0	21	36	40	Lost lock at approx. Line 20; Video missing until line 300
	118/0	21	47	41	
	119/0	14	20	1	
	119/0	14	46	2	
	119/0	15	12	3	Ran out of Tape
Track F7	119/0	15	38	4	
	119/0	16	04	5	
	119/0	16	30	6	
	119/0	16	57	7	
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Reel 68					
Track F1	122/0	13	20	1	
	122/0	13	47	2	
	122/0	14	13	3	
	122/0	14	39	4	
	122/0	15	05	5	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R2	122/0	15	31	6	
	122/0	15	57	7	
	122/0	16	23	8	
	122/0	16	49	9	
Track F3	122/0	17	37	10	
	122/0	18	03	11	
	122/0	18	29	12	
	122/0	18	55	13	
Track R4	122/0	19	21	14	
	122/0	19	47	15	
	122/0	20	13	16	
	122/0	20	39	17	
Track F5	122/0	21	06	18	
	122/0	21	32	19	
	122/0	21	58	20	
	122/0	22	24	21	
Track R6	122/0	22	50	22	
	122/0	23	16	23	
	123/0	14	20	1	
	123/0	14	46	2	
	123/0	15	12	3	
Track F7	123/0	15	38	4	
	123/0	16	04	5	
	123/0	16	30	6	
	123/0	16	56	7	
Reel 69					
Track F1	124/0	14	20	1	
	124/0	14	46	2	
	124/0	15	12	3	
	124/0	15	38	4	
Track R2	124/0	16	04	5	
	124/0	16	30	6	
	124/0	16	56	7	
Reel 70					
Track F1	125/0	14	30	1	
	125/0	14	57	2	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks	
		Hr.	Min.			
Track F1	125/0	15	23	3		
	125/0	15	49	4		
Track R2	125/0	16	15	5		
	125/0	16	41	6		
	125/0	17	06	7		
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Reel 71						
Track F1	129/0	13	19	1		
	129/0	13	30	2		
	129/0	13	41	3		
	129/0	13	52	4		
	129/0	14	03	5		
	129/0	14	14	6		
	129/0	14	25	7		
	129/0	14	36	8		
	129/0	14	46	9		
	129/0	14	57	10		
	129/0	15	08	11		
Track R2	129/0	15	19	12		
	129/0	15	30	13		
	129/0	15	41	14		
	129/0	15	52	15		
	129/0	16	03	16		
	129/0	16	13	17		
	129/0	16	24	18		
	129/0	16	35	19		
	129/0	16	46	20		
	129/0	16	57	21		
	129/0	17	08	22		
Track F3	129/0	17	19	23		
	129/0	17	31	24		
	129/0	17	42	25		
	129/0	18	06	26	Only 850 Lines	
	129/0	18	17	27		
	129/0	18	28	28		
	129/0	18	39	29		
	129/0	18	51	30		
	129/0	19	02	31		
	129/0	19	14	32		
Track R4	129/0	19	25	33		
	129/0	19	36	34		

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R4	129/0	19	47	35	
	129/0	19	58	36	
	129/0	20	09	37	
	129/0	20	20	38	
	129/0	20	32	39	
	129/0	20	43	40	
	129/0	20	54	41	
	129/0	21	05	42	
	129/0	21	16	43	
Track F5	129/0	21	27	44	
	129/0	21	39	45	
	129/0	21	50	46	
	129/0	22	01	47	
	129/0	22	13	48	
	129/0	22	25	49	
	129/0	22	39	50	
	129/0	22	50	51	
	129/0	23	01	52	
	129/0	23	12	53	
	129/0	23	24	54	
Track R6	129/0	23	35	55	
	129/0	23	46	56	
	129/0	23	59	57	
	130/0	00	11	1	
	130/0	00	22	2	
	130/0	00	34	3	Tape Breakage Recorded
<hr/>					
Reel 72					
Track F1	131/0	13	38	1	
	131/0	13	49	2	
	131/0	14	00	3	
	131/0	14	11	4	
	131/0	14	22	5	
	131/0	14	33	6	
	131/0	14	44	7	
	131/0	14	54	8	
	131/0	15	05	9	
	131/0	15	16	10	
	131/0	15	27	11	
Track R2	131/0	15	38	12	
	131/0	15	49	13	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R2	131/0	16	00	14	
	131/0	16	10	15	
	131/0	16	21	16	
	131/0	16	32	17	
	131/0	16	43	18	
	131/0	16	54	19	
	131/0	17	05	20	
	131/0	17	15	21	
	131/0	17	26	22	
Track F3	131/0	17	37	23	
	131/0	17	48	24	
	131/0	17	59	25	
	131/0	18	10	26	
	131/0	18	21	27	
	131/0	18	32	28	
	131/0	18	43	29	
	131/0	18	54	30	
	131/0	19	05	31	
	131/0	19	16	32	
	131/0	19	28	33	
	131/0	19	39	34	
	131/0	19	58	35	
	131/0	20	01	36	
	131/0	20	12	37	
	131/0	20	23	38	
	Track R4	131/0	20	34	39
131/0		20	45	40	
131/0		20	55	41	
131/0		21	06	42	
131/0		21	17	43	
131/0		21	28	44	
131/0		21	46	45	
131/0		21	57	46	
131/0		22	08	47	
131/0		22	19	48	
131/0		22	29	49	
131/0		22	40	50	
131/0		22	51	51	
131/0		23	03	52	
131/0		23	14	53	
131/0		23	25	54	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks	
		Hr.	Min.			
Track F5	131/0	23	36	55		
	131/0	23	46	56		
	131/0	23	57	57		
	132/0	00	08	1		
	132/0	00	19	2		
	132/0	00	30	3		
	132/0	00	41	4		
<hr/>						
Reel 73						
Track F1	132/0	13	20	5		
	132/0	13	31	6		
	132/0	13	42	7		
	132/0	13	52	8		
	132/0	14	03	9		
	132/0	14	14	10		
	132/0	14	25	11		
	132/0	14	36	12		
	132/0	14	47	13		
	132/0	14	58	14		
	132/0	15	09	15		
	Track R2	132/0	15	20	16	
132/0		15	31	17		
132/0		15	42	18		
132/0		15	52	19		
132/0		16	03	20		
132/0		16	14	21		
132/0		16	25	22		
132/0		16	36	23		
132/0		16	47	24		
132/0		16	58	25		
132/0		17	09	26		
Track F3		132/0	17	20	27	
		132/0	17	31	28	
	132/0	17	42	29		
	132/0	23	58	30		
	133/0	00	17	1		
	133/0	00	28	2		
	133/0	00	39	3		
<hr/>						
Reel 74						
Track F1	133/0	14	30	4		
	133/0	14	40	5		

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F1	133/0	14	51	6	
	133/0	15	02	7	
	133/0	15	13	8	
	133/0	15	24	9	
	133/0	15	35	10	
	133/0	15	45	11	
	133/0	15	56	12	
	133/0	16	07	13	
	133/0	16	18	14	
	133/0	16	29	15	
	133/0	16	40	16	
	133/0	16	51	17	
	133/0	17	02	18	
	133/0	17	28	19	
	Track R2	133/0	17	39	20
133/0		17	50	21	Lost Lock at Approx. Line 850
133/0		18	10	22	
133/0		18	21	23	
133/0		18	32	24	
133/0		18	43	25	
133/0		18	54	26	
133/0		19	05	27	
133/0		19	15	28	
133/0		19	26	29	
133/0		19	37	30	
133/0		19	48	31	
133/0		19	59	32	
133/0		20	10	33	
133/0		20	21	34	
133/0		20	32	35	
133/0		20	42	36	
Track F3	133/0	20	58	37	
	133/0	21	04	38	
	133/0	21	15	39	
	133/0	21	41	40	
	133/0	21	52	41	
	133/0	22	03	42	
	133/0	22	14	43	
	133/0	22	25	44	
	133/0	22	36	45	
	133/0	22	47	46	

Reel & Track No.	Day	GM Hr.	Time Min.	Sequence No.	Remarks
Track F3	133/0	22	57	47	
	133/0	23	08	48	
	133/0	23	19	49	
	133/0	23	30	50	
	133/0	23	41	51	
	133/0	23	52	52	
Track R4	134/0	00	03	1	
	134/0	00	14	2	
	134/0	00	25	3	
	134/0	00	36	4	
Reel 75					
Track F1	136/0	15	20	1	
	136/0	15	46	2	
	136/0	16	13	3	
	136/0	16	39	4	
	136/0	17	05	5	
	136/0	17	31	6	
Track R2	136/0	17	57	7	Memory problems after Line 2300
	137/0	14	30	1	
	137/0	14	56	2	
	137/0	15	22	3	
	137/0	15	48	4	
	137/0	16	15	5	
Track F3	137/0	16	41	6	
	137/0	17	07	7	
	137/0	17	33	8	
	137/0	17	59	9	
	137/0	18	25	10	
	137/0	18	51	11	
Track R4	137/0	19	27	12	Started Late; Tape Broke
	137/0	19	52	13	
	137/0	20	19	14	
	137/0	20	45	15	
	137/0	21	11	16	
	137/0	21	37	17	
	137/0	22	03	18	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks	
		Hr.	Min.			
Track F5	137/0	22	29	19		
	137/0	22	55	20		
	137/0	23	21	21		
	138/0	14	30	1		
	138/0	14	56	2		
	138/0	15	22	3		
Track R6	138/0	15	48	4		
	138/0	16	14	5		
	138/0	16	40	6		
	138/0	17	07	7		
	144/0	14	31	1		
	144/0	14	57	2		
Track F7	144/0	15	24	3		
	144/0	15	50	4		
	144/0	16	16	5		
	144/0	16	42	6		
	145/0	18	51	1		
	145/0	19	04	2		
	145/0	19	17	3		
	145/0	19	33	4		
<hr/>						
Reel 76						
Track F1	145/0	19	59	6		
	145/0	20	15	7		
	145/0	20	27	8		
	145/0	20	39	9		
	145/0	21	01	10		
	145/0	21	13	11		
	145/0	21	26	12		
	145/0	21	37	13		
	145/0	21	48	14		
	165/0	10	19	1		
	165/0	10	45	2		
	165/0	11	12	3		
	Track R2	165/0	11	38	4	
		165/0	12	04	5	
165/0		12	30	6		
165/0		12	56	7		
165/0		13	22	8		
165/0		13	48	9		
165/0		14	47	10		

Reel & Track No.	Day	GM Time Hr. Min.	Sequence No.	Remarks
Track F3	165/0	14 41	11	
	165/0	15 07	12	
	165/0	15 33	13	
	165/0	15 59	14	
	165/0	16 25	15	
	165/0	16 51	16	
	165/0	17 17	17	
Track R4	165/0	17 44	18	
	165/0	18 10	19	
	165/0	18 38	20	
	165/0	19 05	21	
	165/0	19 31	22	
	165/0	19 57	23	
	165/0	20 44	24	
Track F5	165/0	21 10	25	
	165/0	21 36	26	
	165/0	22 02	27	
	165/0	22 28	28	
	165/0	22 54	29	
	165/0	23 20	30	
	165/0	23 46	31	
Track R6	166/0	00 13	1	
	173/0	16 10	2	
	173/0	16 36	3	
	173/0	17 02	4	
	173/0	17 28	5	
	173/0	17 54	6	
	173/0	18 20	7	
Track F7	173/0	18 47	7	
Reel 77				
Track F1	174/0	15 58	1	
	174/0	16 24	2	
	174/0	16 50	3	Stopped at Line 2281
	174/0	17 17	4	No Video first 200 Lines
	174/0	17 43	5	Ran out of Tape about line 2000
Track R2	174/0	18 09	6	
	174/0	18 35	7	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track R2	175/0	16	01	1	
	175/0	16	27	2	
Track F3	175/0	16	53	3	
	175/0	17	19	4	
	175/0	17	46	5	
	175/0	18	12	6	
Track R4	175/0	18	33	7	
	175/0	19	04	8	
<hr/>					
Reel 78					
Track F1	192/0	10	27	1	
	192/0	10	53	2	
	192/0	11	19	3	
	192/0	11	45	4	
	192/0	12	11	5	
Track R2	192/0	12	37	6	
	192/0	13	03	7	
	192/0	13	29	8	
	192/0	13	56	9	two starts
Track F3	192/0	14	38	10	two pixs; first pix 850 Lines
	192/0	15	04	11	
	192/0	15	30	12	
	192/0	15	56	13	
Track R4	192/0	16	23	14	
	192/0	16	49	15	
	192/0	17	15	16	
	192/0	17	41	17	
	192/0	18	07	18	
Track F5	192/0	18	33	19	
	192/0	18	59	20	
	192/0	19	25	21	Lost Video Approx. line 850
	192/0	20	18	22	
	192/0	20	44	23	
Track R6	192/0	21	10	23	
	192/0	21	36	24	
	192/0	22	02	25	
	192/0	22	28	26	

Reel & Track No.	Day	GM Time		Sequence No.	Remarks
		Hr.	Min.		
Track F7	192/0	22	54	27	
	192/0	23	21	28	
	192/0	23	47	28	
	193/0	00	38	1	
<hr/>					
Reel 79					
Track F1	193/0	10	06	2	
	193/0	10	32	3	
	193/0	12	14	4	
	193/0	12	40	5	
Track R2	193/0	13	06	6	
	193/0	13	32	7	
	193/0	13	59	8	
	193/0	14	25	9	
Track F3	193/0	14	51	10	
	193/0	15	17	11	
	193/0	15	43	12	
	193/0	16	09	13	
Track R4	193/0	16	35	14	
	193/0	17	01	15	
	193/0	17	28	16	
	193/0	17	54	17	
Track F5	193/0	18	20	18	
	193/0	18	46	19	
	193/0	19	12	20	
	193/0	19	38	21	
Track R6	193/0	20	04	22	
	193/0	20	30	23	
	193/0	20	57	24	
	193/0	21	23	25	
	193/0	21	49	26	
	193/0	22	15	27	
Track F7	193/0	22	41	28	
	193/0	23	07	29	
	193/0	23	33	30	
	194/0	00	00	1	
	194/0	00	26	2	

Table 5-2
MSSCC Digital Data Tapes
Available at the University of Wisconsin

Local Date	Greenwich Day	Picture Start Time			Tape ID	Remarks
		Hr.	Min.	Sec.		
November 10, 1967	314	14	34	02	ATSC-2	3-Color
	314	15	33	42	ATSC-3	3-Color
	314	18	51	42	ATSC-1	3-Color
November 18, 1967	322	18	34	32	ATSC-5	3-Color
January 20, 1968	20	14	55		ATSC-27	3-Color
	20	15	59		ATSC-24	3-Color
	20	17	36		ATSC-25	3-Color
	20	18	41		ATSC-28	3-Color
	20	19	59		ATSC-26	3-Color
April 19, 1968	110	21	56	08	ATSC-10	Green only
	110	22	09	52	ATSC-7	Green only
	110	22	51	06	ATSC-11	Green only
	110	22	23	37	ATSC-12	Green only
	110	22	37	22	ATSC-13	Green only
	110	23	04	51	ATSC-9	Green only
	110	23	18	36	ATSC-8	Green only
	110	23	32	24	ATSC-14	Green only
	110	23	46	05	ATSC-15	Green only
April 23, 1968	114	17	01	44	ATSC-6	Green only
	114	17	42	53	ATSC-23	Green only
	114	18	23	49	ATSC-22	Green only
	114	19	05	00	ATSC-21	Green only
	114	19	46	20	ATSC-20	Green only
	114	20	29	39	ATSC-19	Green only
	114	21	10	36	ATSC-18	Green only
	114	21	52	37	ATSC-17	Green only
	114	22	33	50	ATSC-16	Green only
July 12, 1968	194	15	29	08	ATSC-4	Green only
December 25, 1968	361	08	25	35	ATSC-29A	Moon shots
	361	08	46	00	ATSC-29B	Moon shots
April 4, 1969	094	11	25	15	ATSC-39	
	094	11	54	13	ATSC-45	
	094	12	23	25	ATSC-44	

Local Date	Greenwich Day	Picture Start Time			Tape ID	Remarks
		Hr.	Min.	Sec.		
April 4, 1969 (Continued)	094	12	53	25	ATSC-40	
	094	13	24	04	ATSC-48	
	094	13	58	52	ATSC-47	
	094	14	28	39	ATSC-41	
	094	14	58	19	ATSC-46	
	094	15	26	27	ATSC-42	
	094	15	56	01	ATSC-43	
	094	16	24	30	ATSC-38	
	094	16	48	40	ATSC-37	
	094	17	14	40	ATSC-35	
	094	17	39	56	ATSC-36	
	094	18	05	08	ATSC-33	
	094	18	30	30	ATSC-32	
	094	18	55	47	ATSC-31	
	094	19	21	02	ATSC-30	
	094	19	48	13	ATSC-52	
	094	20	11	26	ATSC-51	
	094	20	36	40	ATSC-54	
	094	21	18	38	ATSC-53	
	094	21	43	47	ATSC-50	
094	22	09	06	ATSC-49		
May 3, 1969	124	15	28	49	ATSC-34	
May 10, 1969	130	14	41	36	ATSC-58	
	130	14	56	17	ATSC-56	
	130	15	10	58	ATSC-57	
	130	15	25	40	ATSC-55	
May 23, 1969	143	15	37	38	ATSC-93	
	143	16	52	09	ATSC-91	
	143	17	42	40	ATSC-92	
June 3, 1969	154	09	48	20	ATSC-61	
	154	15	37	30	ATSC-96	
	154	16	53	04	ATSC-60	
	154	16	07	46	ATSC-81	
	154	17	40	25	ATSC-59	
	154	20	04	54	ATSC-82	
June 4, 1969	155	15	06	38	ATSC-87	
	155	16	03	00	ATSC-95	
	155	17	00	35	ATSC-67	
	155	17	47	43	ATSC-66	
	155	20	10	31	ATSC-65	

Local Date	Greenwich Day	Picture Start Time			Tape ID	Remarks
		Hr.	Min.	Sec.		
June 6, 1969	157	16	01	32	ATSC-64	
	157	17	00	18	ATSC-63	
	157	17	40	32	ATSC-62	
June 8, 1969	159	15	06	10	ATSC-90	
	159	16	03	20	ATSC-89	
	159	17	22	55	ATSC-88	
June 9, 1969	160	14	51	00	ATSC-94	
	160	15	16	19	ATSC-84	
	160	16	43	50	ATSC-86	
	160	17	43	52	ATSC-85	
June 10, 1969	161	15	19	00	ATSC-83	
	161	15	59	08	ATSC-80	
June 12, 1969	163	15	30	10	ATSC-99	
	163	16	00	02	ATSC-100	
	163	16	03	37	ATSC-97	
	163	18	07	24	ATSC-98	
June 26, 1969	177	15	01	07	ATSC-79	
	177	16	53	48	ATSC-78	
	177	17	19	15	ATSC-68	
June 28, 1969	179	15	00	42	ATSC-69	
	179	16	42	33	ATSC-70	
	179	17	24	14	ATSC-71	
July 1, 1969	182	14	54	17	ATSC-73	
	182	16	46	31	ATSC-74	
	182	17	37	44	ATSC-75	
July 2, 1969	183	15	06	09	ATSC-72	
	183	16	48	27	ATSC-77	
	183	17	39	38	ATSC-76	
September 15, 1969	258	12	37	16	ATSC-159	
	258	12	50	01	ATSC-160	
	258	13	03	16	ATSC-161	
	258	13	16	01	ATSC-162	
	258	13	29	35	ATSC-163	
	258	13	45	30	ATSC-164	
	258	13	58	59	ATSC-165	

Local Date	Greenwich Day	Picture Start Time			Tape ID	Remarks
		Hr.	Min.	Sec.		
September 15, 1969 (Continued)	258	14	11	47	ATSC-166	
	258	14	37	21	ATSC-158	
	258	14	24	33	ATSC-142	
	258	14	54	36	ATSC-143	
	258	15	07	27	ATSC-144	
	258	15	20	11	ATSC-145	
	258	15	32	56	ATSC-146	
	258	16	34	29	ATSC-147	
	258	16	47	26	ATSC-148	
	258	17	00	15	ATSC-141	
	258	17	14	20	ATSC-157	
	258	17	27	13	ATSC-156	
	258	17	40	29	ATSC-155	
	258	17	56	04	ATSC-154	
	258	18	08	53	ATSC-153	
	258	18	21	40	ATSC-152	
	258	18	34	29	ATSC-151	
	258	18	47	17	ATSC-150	
	258	19	00	09	ATSC-149	
	258	19	13	30	ATSC-167	
	258	19	14	56	ATSC-174	
	258	19	25	45	ATSC-175	
	258	19	38	33	ATSC-176	
	258	19	51	22	ATSC-177	
	258	20	04	04	ATSC-178	
	258	20	15	58	ATSC-179	
	258	20	29	47	ATSC-180	
258	20	42	40	ATSC-181		
September 23, 1969	266	16	53	36	ATSC-105	
	266	17	00	33	ATSC-106	
September 24, 1969	267	16	46	17	ATSC-107	
	267	16	59	08	ATSC-108	
September 28, 1969	271	16	34	05	ATSC-109	
	271	16	47	43	ATSC-110	
September 29, 1969	272	16	20	01	ATSC-111	
	272	16	32	50	ATSC-112	
September 30, 1969	273	16	20	04	ATSC-103	
	273	16	35	59	ATSC-104	
November 14, 1969	318	14	34	43	ATSC-113	

Local Date	Greenwich Day	Picture Hr.	Start Min.	Time Sec.	Tape ID	Remarks
January 6, 1970	006	14	42	45	ATSC-182	
	006	15	22	55	ATSC-171	
	006	15	33	38	ATSC-172	
	006	15	44	18	ATSC-173	
	006	15	54	55	ATSC-123	
	006	16	05	42	ATSC-124	
	006	16	16	23	ATSC-125	
	006	16	44	51	ATSC-126	
	006	16	55	30	ATSC-127	
	006	17	06	17	ATSC-128	
	006	17	16	59	ATSC-129	
	006	17	27	45	ATSC-130	
	006	17	38	20	ATSC-131	
	006	17	49	21	ATSC-132	
	006	18	00	02	ATSC-133	
	006	18	22	44	ATSC-134	
	006	18	34	45	ATSC-135	
	006	18	50	07	ATSC-136	
	006	19	01	56	ATSC-137	
	006	19	25	16	ATSC-138	
	006	19	37	08	ATSC-139	
	006	19	48	57	ATSC-168	
	006	20	09	04	ATSC-169	
	006	20	20	56	ATSC-170	
	006	20	32	57	ATSC-117	
	006	20	44	14	ATSC-116	
	006	20	56	09	ATSC-115	
	006	21	07	51	ATSC-114	
	006	21	20	10	ATSC-122	
	006	21	32	58	ATSC-121	
	006	21	45	48	ATSC-120	
	006	21	56	49	ATSC-119	
	006	22	11	44	ATSC-118	
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