QC
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C372
1962
Feb.

UNITED STATES DEPARTMENT OF COMMERCE
U.S. WEATHER BUREAU

CATALOGUE OF

TIROS IV

CLOUD PHOTOGRAPHY

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For

FEBRUARY, 1962

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This is the first in a series of catalogue preprints describing the television cloud photographs obtained by TIROS IV Meteorological Satellite. Material in this issue covers the period from launch on February 8, 1962, through February 28, 1962. The maps and listings generally follow the pattern established in the "Catalogue of Meteorological Satellite Data - TIROS I Television Cloud Photography," recently published as No. 5.31 in the Weather Bureau Series Key to Meteorological Records Documentation. The TIROS I catalogue is priced at 70 cents and is available from the Superintendent of Documents, Washington 25, D. C. Similar complete catalogues for TIROS III and TIROS IV are planned for publication in the Key series.

CATALOGUE OF TIROS IV CLOUD PHOTOGRAPHY

TIROS IV was launched by the National Aeronautics and Space Administration on February 8, 1962. Traveling in a nearly circular orbit, it averages about 420 nautical miles above the earth's surface, with a difference between apogee and perigee of 72 nautical miles. It has an orbital period of 100.4 minutes which corresponds to fourteen and a fraction passes around the earth each day. The orbit is inclined at an angle of 48.3° to the earth's equatorial plane and thus, as with the previous TIROS, picture coverage can be obtained only in the zone bounded roughly by 55° N. and S. latitude.

The satellite has a spin rate of about 12 rpm. Being spin-stabilized, the spin axis orientation in space will change only gradually during its operational lifetime. There are two cameras mounted with their optical axes parallel to the spin axis, and the earth is within their fields of view during less than half of each orbital pass. This restricts usable picture coverage to the portion of each orbital pass during which the underlying earth is both sunlit and within view of the cameras.

Camera 1 has a wide-angle lens which covers an area about 700 miles square when the optical axis is normal to the earth's surface; at other times a larger area is included in oblique perspective. Camera 2 has a medium-angle lens which covers an area of 475 miles square.

Camera action aboard TIROS IV is controlled from two Command-and-Data Acquisition (CDA) stations, one located at Wallops Station near Chincoteague, Va., and the other at Pacific Missile Range, Point Mugu, Calif. For a few minutes each on eight or sometimes nine of its 14 daily passes, the satellite comes within radio range of one or both of these stations. The pictures can be either transmitted to a CDA station directly as they are taken or stored on tape for transmission at a later time. Each time the satellite comes within range of station, one tape from each operating camera can be played back and, if it is daytime and the optical axis is appropriately oriented, a series of direct pictures can also be obtained.

Direct pictures obtained on any one pass are grouped into one or two sequences depending on whether or not the series was interrupted to permit playback of a tape sequence. The time interval between frames is either 10 or 30 seconds for most direct sequences. Tape pictures are always taken at 30-second time intervals in sequences of up to 32 frames each.

Accompanying each picture is a panel board legend showing camera number, mode (TAPE or DIRECT), frame number, orbit pass number, and station initial preceded by "4" for TIROS IV. Occasionally a clock appears in the legend, but the time shown has no relation to picture-taking time. The figures in the legend are larger and more distinct than for previous TIROS. Within each sequence, the indicated frame numbers increase in the order that the pictures were received at the CDA station. For direct mode this is the time order in which the pictures were taken. But tape sequences are played back to the station in reverse time order. Pictures of both modes are arranged on the film in order of increasing frame number; therefore it is important

to note that this is correct time order for direct sequences, but is reverse time order for tapes. Malfunctioning frequently causes the frame counting system to behave erratically resulting in repetition and discontinuity in the frame number series.

The following pages of maps and tabulated listings give descriptive information about the pictures obtained by TIROS IV. In the listings each picture sequence is described by one line, and for each station the sequences are listed in the order in which they appear on the film reel. The column headings and entries have the following meanings:

REEL: Number of the film reel which contains the sequence. (Information not available when this booklet was printed).

FILM LEGEND: This section gives the information actually appearing on the film in the panel board legend accompanying each picture. This information is used to identify the sequence on the film reel.

PASS: Orbit pass number on which the pictures were read out, as indicated in the upper right corner of the legend.

M: Mode of transmission indicated in the legend.

D = Direct

T = Tape

C: Camera number indicated in the legend

1 = Camera number one

2 = Camera number two

S: CDA station which received the sequence

W = Wallops Station, Va.

P = Point Mugu, (Pacific Missile Range), Calif.

When the panel board legend contains an error, the information as it appears on the film is listed under FILM LEGEND with an asterisk to indicate an erroneous designation. Correct information for mode and camera can always be found in the PICTURE SEQUENCE DATA section. For direct sequences the correct readout orbit pass number is the same as the picture-taking pass number listed under PICTURE SEQUENCE DATA. For tape sequences the correct readout pass number usually can be deduced by comparison with preceding and following sequences. On the film reels, legend inaccuracies are indicated in the sequence title frame by the word ERROR followed by O, C, or M for orbit pass,

camera, or mode as appropriate. Unfortunately errors in frame number and sun angle are too numerous to designate individually in this manner.

PICTURE SEQUENCE DATA: This section documents the picture content. Sequences having no usable frames are included on the film reel but are not documented in this section.

PASS: Orbit pass number on which the first picture of the sequence was taken. For direct sequences this pass number and the readout pass number given under FILM LEGEND are the same. For tape sequences, however, picture taking usually began on an earlier pass.

M: Actual mode of transmission coded as in FILM LEGEND.

C: Actual camera used, coded as in FILM LEGEND.

DATE: Month and day when the first picture was taken.

TIME: Approximate time, in hours and minutes (GMT), of the middle frame in the sequence. This time is also given with the nephanalysis on the coverage map.

FRAME:TI: Time interval, in seconds, between frames. V indicates time interval varies within the sequence.

US: Number of usable frames in the sequence.

+: Number of frames in which the central fiducial cross mark appears on the earth, indicating that the earth's image occupies a substantial portion of the picture.

GEOGRAPHICAL AREA COVERED: Column headings refer to numbered areas outlined on the first map. Column entries indicate the areas included in the picture sequence.

L: Presence of a landmark is indicated by the following code:

0 = No ground image possible anywhere in the sequence.

1 = Ground image possible but not seen.

2 = Ground image noticed but not identified.

3 = Identified ground image.

VBSC: Presence of a Vortex, Cloud Bands, Cloud Streets or Cells in the sequence is indicated by the following code:

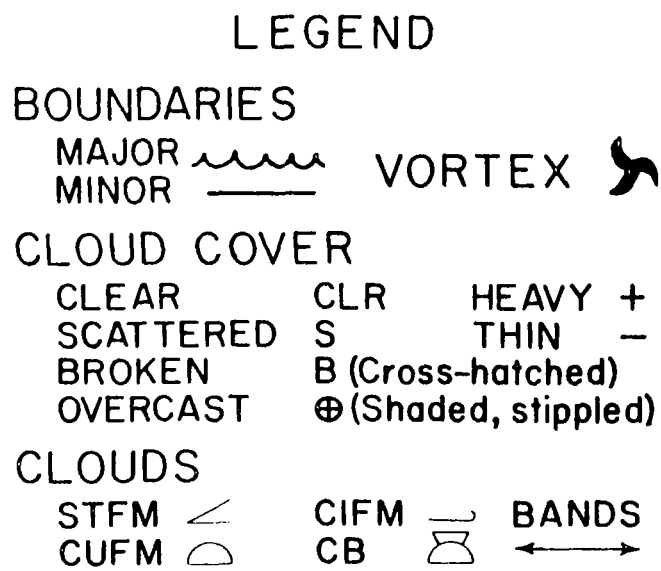
0 = None anywhere in the sequence

1 = Ill defined

2 = Easily recognized

3 = Pronounced

Following the listings is a series of maps which provides a rough indication of the area covered by each sequence having usable frames and for which picture taking time has been determined. Most of the picture sequences were analyzed for their cloud content during routine operations, and these nephanalyses have been reproduced on the maps. The following legend defines the symbols used in these nephanalyses.



The coverage swaths are grouped by PASS DAY, which includes all sequences taken on or near the series of 8 or 9 consecutive passes that come within range of the CDA stations each 24 hour period. These passes may fall on one or on two calendar days, and the maps are dated accordingly. Tape swaths are identified by the readout pass number, followed by the picture-taking pass number. Direct swaths are identified by a single pass number. Mode and midpoint time are given for all swaths, and CDA station initial or number is added when necessary to identify definitely the sequence to which the swath applies. Two direct sequences acquired at the same station on the same pass are normally combined in one swath, since the short interruption for tape playback usually does not cause a significant gap in the coverage.

The time given on the maps and listed under PICTURE SEQUENCE DATA is the approximate midpoint time for the sequence. Anyone desiring more accurate times for individual frames should direct inquiries to the Documentation Unit, Meteorological Satellite Activities, U. S. Weather Bureau, Washington 25, D.C.

TIROS IV master films will be deposited at the:

National Weather Records Center
U. S. Weather Bureau
Arcade Building
Asheville, No. Carolina

When they become available, persons or institutions desiring copies may order them from NWRC in the form of 35mm positive transparencies for projection or 35mm duplication negatives from which opaque prints can be made. The pictures are stored chronologically on 100-foot reels. Orders must be placed for one or more complete reels, at a cost of $4.00 each, as it is not now possible to furnish copies of individual frames or to provide enlargements or other picture formats. These film copies will be furnished without sprocket holes unless a specific request to the contrary is made when placing the order. Sprocketed copies are furnished at a cost of $5.00 per reel.

USCOMM-WB-DC

REEL	FILM LEGEND				PICTURE SEQUENCE DATA																							
										FRAME			GEOGRAPHICAL AREA COVERED																LVBSC
	PASS	M	C	S	PASS	M	C	DATE	TIME	TI	US	+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	0001	D	1	W	0001	D1		0208	1434	10	22	00				4														00000
	0001	D	1	P	0001	D1		0208		10	00	00																		00000
	0002	D	2	W	0002	D	2	0208	1625	10	41	23				4	5													30000
	0003	D	2*	W	0003	D1		0208	1808	10	38	10				4	5													20001
	0004	D	2	W	0004	D	2	0208	1950	10	06	06				4														01000
	0005	D	2	W	0005	D	2	0208	2137	10	03	03				4														00110
	0006	D	1	P	0006	D1		0208	2314	10	07	08			3															00223
	0006	T	1	P	0004	T1		0208	2004	30	27	30				4						10								00000
	0006	D	2	P	0006	D	2	0208	2321	10	06	05			3															30000
	0014	D	1	W	0014	D1		0209		10	00	00																		00000
	0014	T	1	W	0006	T1		0208	2325	30	23	23			3															31223
	0014	T	2	W	0006	T	2	0208	2329	30	19	19			3															02222
	0015	D	1	W	0015	D1		0209		10	00	00																		00000
	0015	T	1	W	0014	T1		0209		30	00	00																		00000
	0015	D	2	W	0015	D	2	0209		10	00	00																		00000
	0016	T	1	W	0015	T1		0209		30	00	00																		00000
	0016	T	2	W	0015	T	2	0209		30	00	00																		00000
	0016	T	2	W	0016	T	2	0209		10	00	00																		00000
	0017	T	1	W	0016	T1		0209		30	00	00																		00000
	0017	D	2	W	0017	D	2	0209	1735	30	15	15				4														30200
	0018	D	2	W	0018	D	2	0209	1914	30	06	06				4														30200
	0020	D	1	P	0020	D1		0209	2239	10	04	04			3															01003
	0020	D	2	P	0020	D	2	0209	2239	10	05	05			3															30000
	0020	T	2	P	0018	T	2	0209	1926	30	24	24				4														00220
	0021	T	1	P	0020	T1		0209	2242	30	26	26			3						9									30000
	0021	T	2	P	0020	T	2	0209	2251	30	27	27			3						9									30000
	0028	D	1	W	0028	D1		0210		10	00	00				4														00000
	0028	D*	1	W	0023	T1		0210		30	17	17																		00000
	0030	T	2	W	0029	T	2	0210		30	06	06																		00000
	0030	D	2	W	0030	D	2	0210	1511	10	19	00				4														20000
	0031	T	1	P	0029	T1		0210		30	11	05																		00000
	0031	T	2	P	0030	T	2	0210		30	30	00																		00000
	0032	D	1	P	0032	D1		0210	1834	10	06	01			3															00000
	0033	D	1	P	0033	D1		0210	2015	10	18	16			3															00000
	0033	T	1	P	0032	T1		0210	1840	30	26	26			3	4														30200
	0034	D	2	P	0034	D	2	0210	2202	10	10	10		2	3															00303
	0034	T	1	P	0033	T1		0210	2039	30	24	24										10					15	16		00000
	0034	D	1	P	0034	D1		0210	2210	10	03	03									9									30000
	0035	T	2	P	0034	T	2	0210	2218	30	28	28									9	10								30000
	0042	T	1	W	0038	T1		0211	0450	30	31	32	1							8										20333
	0043	T	1	W	0042	T1		0211		30	00	00																		00000
	0044	D	2	W	0044	D	2	0211		30	00	00					5													00000
	0044	T	1	W	0043	T1		0211		30	00	00					5	6					11							00000
	0045	D	2	W	0045	D	2	0211	1620	30	06	06																		30323
	0045	T	1	W	0044	T1		0211		30	00	00																		00000
	0045	T	2	W	0044	T	2	0211	1440	30	27	16				4	5													30323
	0046	T	1	P	0045	T1		0211	1630	30	32	32					5						11							33222
	0047	T*	1	P	0047	D1		0211	1941	10	09	04			3															00300
	0048	D	2	P	0048	D	2	0211	2127	10	12	12			3															00020
	0049	T	1	P	0047	T1		0211		30	00	00																		00000
	0049	T	2	P	0048	T	2	0211	2138	30	31	31			3							10								30000
	0056	D	2	W	0056	D	2	0212		10	00	00																		00000
	0057	T	1	W	0052	T1		0212		30	00	00																		00000
	0058	T	2	W	0056	T	2	0212		30	08	09													13					00000
	0059	T	1	P	0057	T1		0212		30	00	00																		00000
	0060	T	2	P	0058	T	2	0212		30	00	00																		00000
	0061	D	2	W	0061	D	2	0212	1915	V	20	20				4														20033
	0062	T	1	P	0059	T1		0212		30	00	00																		00000
	0062	D	1	P	0062	D1		0212	2053	10	16	16			3															20202
	0063	D	2	P	0063	D	2	0212	2236	10	29	29		2	3						9									00302
	0063	T	2	P	0061	T	2	0212	1923	30	29	29				4						10								30022
	0071	T	2	W	0067	T	2	0213		30	00	00																		00000
	0071	D	2	W	0071	D	2	0213		30	00	00																		00000
	0072	T	1	W	0063	T1		0212	2231	30	29	14		2	3															01303
	0073	D	2	W	0073	D	2	0213	1502	V	39	00				4	5													30000
	0074	T	1	P	0073	T1		0213	1535	30	22	22															15			30222
	0075	T*	2	W	0075	D	2	0213	1834	30	09	07				4														00000
	0075	T*	1	W	0075	D1		0213	1834	10	05	10				4														00000
	0075	T	2	P	0072	T	2	0213		30	00	00																		00000
	0075	T*	2	P	0075	D	2	0213	1834	10	05	02			3															00000
	0077	T	2	P	0075	T	2	0213	1838	30	20	16				4														31220
	0077	D	2	P	0077	D	2	0213	2200	10	19	19			3															.00000
	0085	T	1	W	0078	T1		0213		30	00	00																		00000
	0086	T	2	W	0085	T	2	0214	1114	30	12	00					5	6												00002

REEL	FILM LEGEND				PICTURE SEQUENCE DATA																									
										FRAME			GEOGRAPHICAL AREA COVERED																	LVBSC
	PASS	M	C	S	PASS	M	C	DATE	TIME	T1	US	+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	0087	T	2	W	0086	T	2	0214	1319	30	31	31											11	12					17	20100
	0087	D	1	W	0087	D	1	0214		30	00	00																		00000
	0088	T	1	P	0087	T	1	0214	1500	30	31	31											11							20230
	0089	T	2	W	0088	T	2	0214	1628	30	01	02																		00000
	0089	T	2	P	0088	T	2	0214	1635	30	30	30														14	15			00320
	0089	D	2	W	0089	D	2	0214	1758	30	09	04				4														00200
	0089	T*	2	P	0089	D	2	0214	1756	10	01	00			3															00000
	0089	D	1	W	0089	D	1	0214		V	00	00																		00000
	0091	D	2	P	0091	D	2	0219	2127	10	35	35			3															03220
	0091	T	2	P	0089	T	2	0214	1730	30	22	22				4						10								20200
	0099	T	1	W	0090	T	1	0214		30	00	00																		00000
	0100	T	2	W	0099	T	2	0215	1040	30	18	07						6												30000
	0100	T	1	W	0099	T	1	0215	1115	30	32	32												12					17	00000
	0101	T	2	W	0100	T	2	0215	1242	30	30	30											11	12					17	30303
	0101	T	1	W	0100	T	1	0215	1242	30	31	31												12					17	20303
	0102	T	1	P	0101	T	1	0215		30	00	00																		00000
	0102	T	2	P	0101	T	2	0215	1418	30	31	31											11							20230
	0103	D	2	P	0103	D	2	0215		10	00	00																		00000
	0103	T	1	W	0102	T	1	0215		30	00	00																		00000
	0103	D	1	W	0103	D	1	0215		30	00	00																		00000
	0104	T	1	P	0103	T	1	0215	1734	30	29	29				4						10								20220
	0104	T	2	P	0103	T	2	0215	1734	30	29	19				4						10								00000
	0104	D		P	0104	D		0215		21	00	00																		00000
	0105	T	2	P	0104	T	2	0215	1913	30	32	32			3	4						10								30222
	0105	D	2	P	0105	D	2	0215	2050	10	14	15			3															30322
	0113	T	1	W	0108	T	1	0215		30	00	00																		00000
	0113	T	2	W	0109	T	2	0215		30	00	00																		00000
	0114	T	1	W	0113	T	1	0216		30	00	00																		00000
	0114	T	2	W	0113	T	2	0216		30	00	00																		00000
	0114	D	2	W	0114	D	2	0216		10	00	00																		00000
	0115	T	2	W	0114	T	2	0216	1145	30	11	00						6												30100
	0115	T	1	W	0114	T	1	0216	1200	30	31	31											11	12						30000
	0116	T	2	W	0115	T	2	0216		30	00	00																		00000
	0116	T	1	W	0115	T	1	0216		30	00	00																		00000
	0116	D	2	W	0116	D	2	0216		30	00	00																		00000
	0117	T	1	P	0116	T	1	0216		30	00	00																		00000
	0117	T	2	P	0116	T	2	0216	1515	30	12	12											11							00020
	0118	T	2	P	0116	T	2	0216	1515	30	09	12					5						11							00200
	0119	T*	1	P	0119	D	1	0216		10	00	00																		00000
	0119	T	2	P	0116	T	2	0216	1515	30	07	06					5													03300
	0127	T	1	W	0119	T	1	0216	2030	30	19	19			3						9	10								30212
	0128	T	1	W	0127	T	1	0217	1000	30	18	15								8				12	13				17	00101
	0129	T	1	W	0128	T	1	0217	1136	30	31	31												12	13				17	23203
	0129	T	2	W	0128	T	2	0217		30	00	00																		00000
	0130	T	2	W	0129	T	2	0217		30	00	00																		00000
	0130	T	1	W	0130	T	1	0217		30	00	00																		00000
	0131	D	1	W	0131	D	1	0217		10	00	00																		00000
	0131	T	1	W	0130	T	1	0217	1500	30	31	31																16	17	32330
	0131	T	2	W	0130	T	2	0217		30	00	00																		00000
	0131	T*	2	W	0131	D	2	0217	1615	30	02	00				4														20330
	0132	T	2	W	0131	T	2	0217	1622	30	30	29				4	5				9									00303
	0132	D	2	W	0132	D	2	0217	1758	V	06	06				4						10								30002
	0132	T	1	W	0131	T	1	0217	1635	30	31	31										10	11					16		00323
	0141	T	1	W	0133	T	1	0217		30	00	00																		00000
	0141	T	2	W	0134	T	2	0217		30	00	00																		00000
	0142	T	2	W	0142	T	2	0218		30	00	00																		00000
	0142	T	1	W	0142	T	1	0218		30	00	00																		00000
	0143	T	2	W	0143	T	2	0218		30	00	00																		00000
	0143	T	1	W	0143	T	1	0218		30	00	00																		00000
	0143	T	2	W	0142	T	2	0218		30	00	00																		00000
	0143	T	1	W	0142	T	1	0218		30	00	00																		00000
	0144	T	1	W	0143	T	1	0218		30	00	00																		00000
	0144	T	2	W	0143	T	2	0218	1215	30	13	02					5	6												30000
	0145	T	1	W	0144	T	1	0218	1406	30	32	28											11					16	17	31330
	0145	T	2	W	0144	T	2	0218		30	00	00																		00000
	0145	T*	2	W	0145	D	2	0218	1538	30	02	00				4														00000
	0146	T	1	W	0145	T	1	0218		30	00	00																		00000
	0146	T	2	W	0145	T	2	0218	1544	30	30	23				4	5													00000
	0146	D	2	W	0146	D	2	0218	1721	V	04	04				4														00002
	0155	T	2	W	0147	T	2	0218		30	04	01			3							10								00221
	0155	T	1	W	0149	T	1	0218	2150	30	31	29		2							9									00213
	0156	T	1	W	0155	T	1	0219		30	00	00																		00000
	0156	T	2	W	0155	T	2	0219		30	00	00																		00000
	0157	T	1	W	0156	T	1	0219	1027	30	27	31								8				12	13				17	00200

REEL	FILM LEGEND				PICTURE SEQUENCE DATA																									
										FRAME			GEOGRAPHICAL AREA COVERED																	LVBSC
	PASS	M	C	S	PASS	M	C	DATE	TIME	TI	US	+	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	
	0157	T	2	W	0156	T	2	0219		30	00	00																		00000
	0158	T	2	W	0157	T	2	0219	1207	30	31	31											11					16	17	21011
	0158	T	1	W	0157	T	1	0219	1207	30	31	31											11					16	17	21011
	0159	T	1	W	0158	T	1	0219		30	00	00																		00000
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	0159	T*	2	W	0159	D	2	0219		30	00	00																		00000
	0160	T	2	W	0159	T	2	0219	1508	30	26	20				4	5					10	11							00210
	0160	T*	2	W	0160	D	2	0219		10	00	00																		00000
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	0170	T	2	W	0160	T	2	0219	1653	30	24	25				4						10								20202
	0170	T	1	W	0162	T	1	0219	2015	30	31	32		2	3						9	10								00202
	0171	T	1	W	0170	T	1	0220	0946	30	31	31						6	7				11	12					17	20200
	0171	T	2	W	0170	T	2	0220	0950	30	27	31												12					17	00202
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	0198	T	2	W	0190	T	2	0221	1900	30	29	21			3						9	10								00212
	0199	T	1	W	0198	T	1	0222		30	00	00																		00000
	0199	D	2	W	0199	D	2	0222		30	00	00																		00000
	0200	D*	2	P	0199	T	2	0222	1010	30	31	28											11	12						32302
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	0201	T	2	W	0200	T	2	0222	1208	30	17	17																16	17	00203
	0202	T	1	W	0201	T	1	0222		30	00	00																		00000
	0202	T	2	W	0202	T	2	0222		30	00	00																		00000
	0212	T	1	W	0202	T	1	0222		30	00	00																		00000
	0212	T	2	W	0202	T	2	0222	1437	30	13	02				4						10								00000
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	0213	T	2	W	0212	T	2	0223		30	00	00																		00000
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	0214	D	2	P	0214	D	2	0223		20	00	00																		00000
	0215	T	1	W	0214	T	1	0223	1116	30	32	30											11					16	17	30200
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	0228	T	1	P	0226	T	1	0224		30	00	00																		00000
	0228	T	2	P	0226	T	2	0224		30	00	00																		00000
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	0230	T	1	W	0229	T	1	0224		30	00	00																		00000
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REEL	FILM LEGEND				PICTURE SEQUENCE DATA																							
										FRAME			GEOGRAPHICAL AREA COVERED															LVBSC
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	0240	T	1	W	0234	T	1	0224		30	00	00																		00000
	0240	T	2	W	0233	T	2	0224		30	00	00																		00000
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	0242	T	1	P	0241	T	1	0225		30	00	00																		00000
	0242	T	2	P	0240	T	2	0225		30	00	00																		00000
	0243	T	1	W	0242	T	1	0225		30	00	00																		00000
	0243	T	2	W	0243	T	2	0225		30	00	00																		00000
	0244	T	1	W	0243	T	1	0225	1150	30	32	30											11					16	17	30003
	0245	T	2	W	0243	T	2	0225		30	00	00																		00000
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	0246	T	2	P	0245	T	2	0225		30	00	00																		00000
	0246	D	2	P	0246	D	2	0225		V	00	00																		00000
	0254	T	1	W	0246	T	1	0225	1700	30	31	31															15	16		32313
	0255	T	1	W	0254	T	1	0226		30	00	00																		00000
	0255	T	2	W	0246	T	2	0225		30	14	07																		00000
	0256	T	1	P	0255	T	1	0226	0803	30	32	32												12	13				17	03300
	0256	T	2	P	0255	T	2	0226	0803	30	12	12												12	13				17	00000
	0257	T	2	P	0255	T	2	0226	0752	30	20	20												12	13				17	03300
	0258	T	1	W	0257	T	1	0226		30	00	00																		00000
	0258	T	2	W	0257	T	2	0226		30	00	00																		00000
	0259	T	1	W	0258	T	1	0226	1305	30	31	31																16	17	00000
	0259	T	2	W	0258	T	2	0226		30	00	00																		00000
	0259	D	2	W	0259	D	2	0226		30	00	00																		00000
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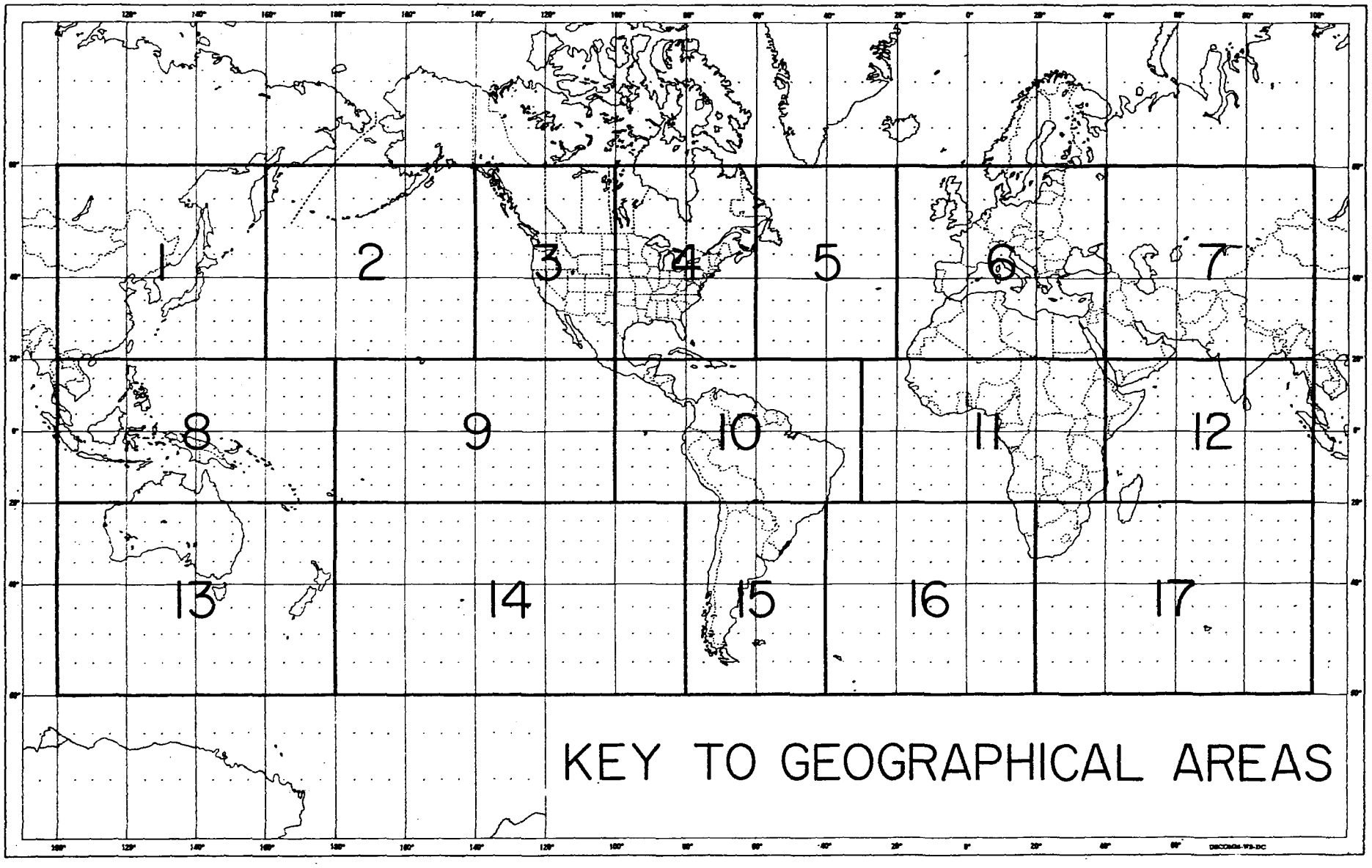
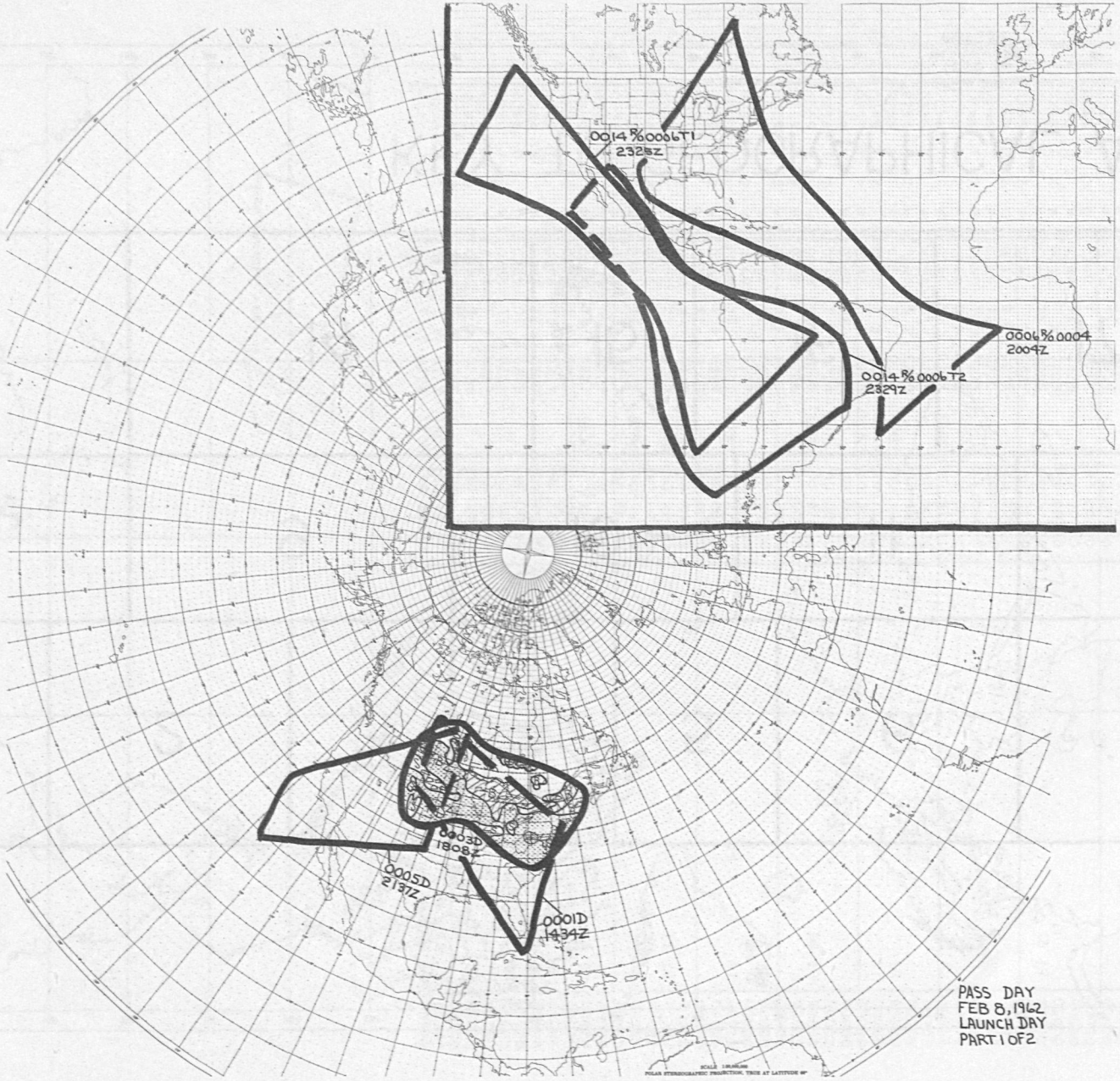
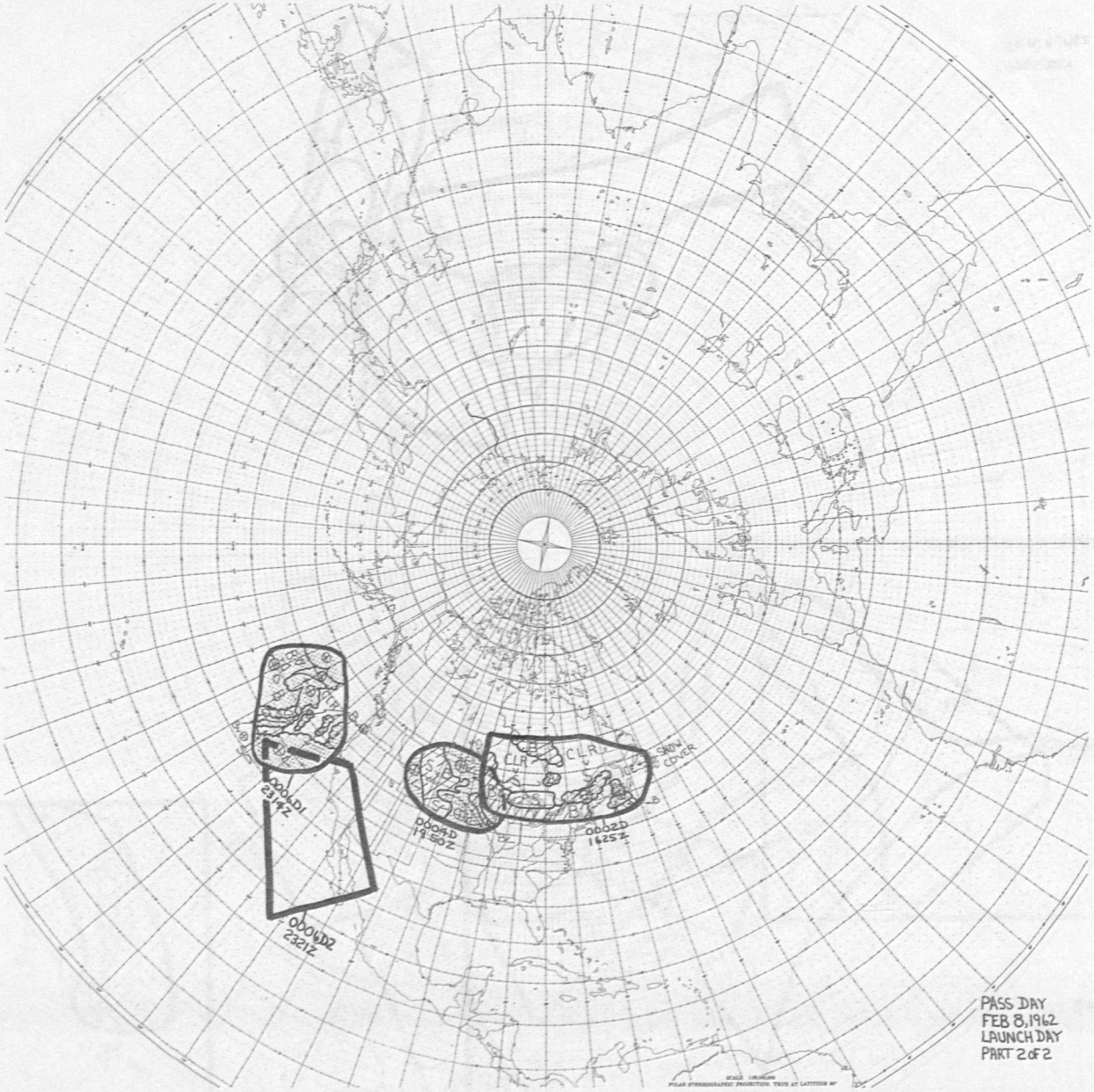
	0270	T	1	W	0269	T	1	0227	0730	30	27	27													13				17	00313
	0270	T	2	W	0269	T	2	0227		30	00	00																		00000
	0271	T	1	W	0270	T	1	0227		30	00	00																		00000
	0271	T	2	W	0270	T	2	0227	0911	30	06	06													13					00000
	0272	T	1	W	0271	T	1	0227	1050	30	22	22																16	17	00333
	0272	T	2	W	0271	T	2	0227		30	00	00																		00000
	0273	T	1	W	0272	T	1	0227	1230	30	30	30																16	17	00233
	0273	T	2	W	0272	T	2	0227		30	00	00																		00000
	0273	D	2	W	0273	D	2	0227		V	00	00																		00000
	0275	T	1	P	0273	T	1	0227	1410	30	14	14																16	17	00030
	0275	T	2	P	0273	T	2	0227		30	00	00																		00000
	0283	T	1	W	0278	T	1	0227		30	11	11														14	15			03303
	0284	T	1	W	0283	T	1	0228		30	00	00																		00000
	0285	D	1	P	0285	D	1	0228		30	00	00																		00000
	0286	T	1	W	0285	T	1	0228		30	00	00																		00000
	0287	D*	2	W	0275	T	2	0227		30	00	00																		00000
	0288	T	2	P	0287	T	2	0228		30	20	20																	17	03030
	0289	T	2	P	0288	T	2	0228		30	00	00																		00000
	0298	T	2	W	0290	T	2	0228	1830	30	32	32														14	15	16		30002
	0301	T	1	W	0286	T	1	0228	1200	30	32	32																16	17	00222



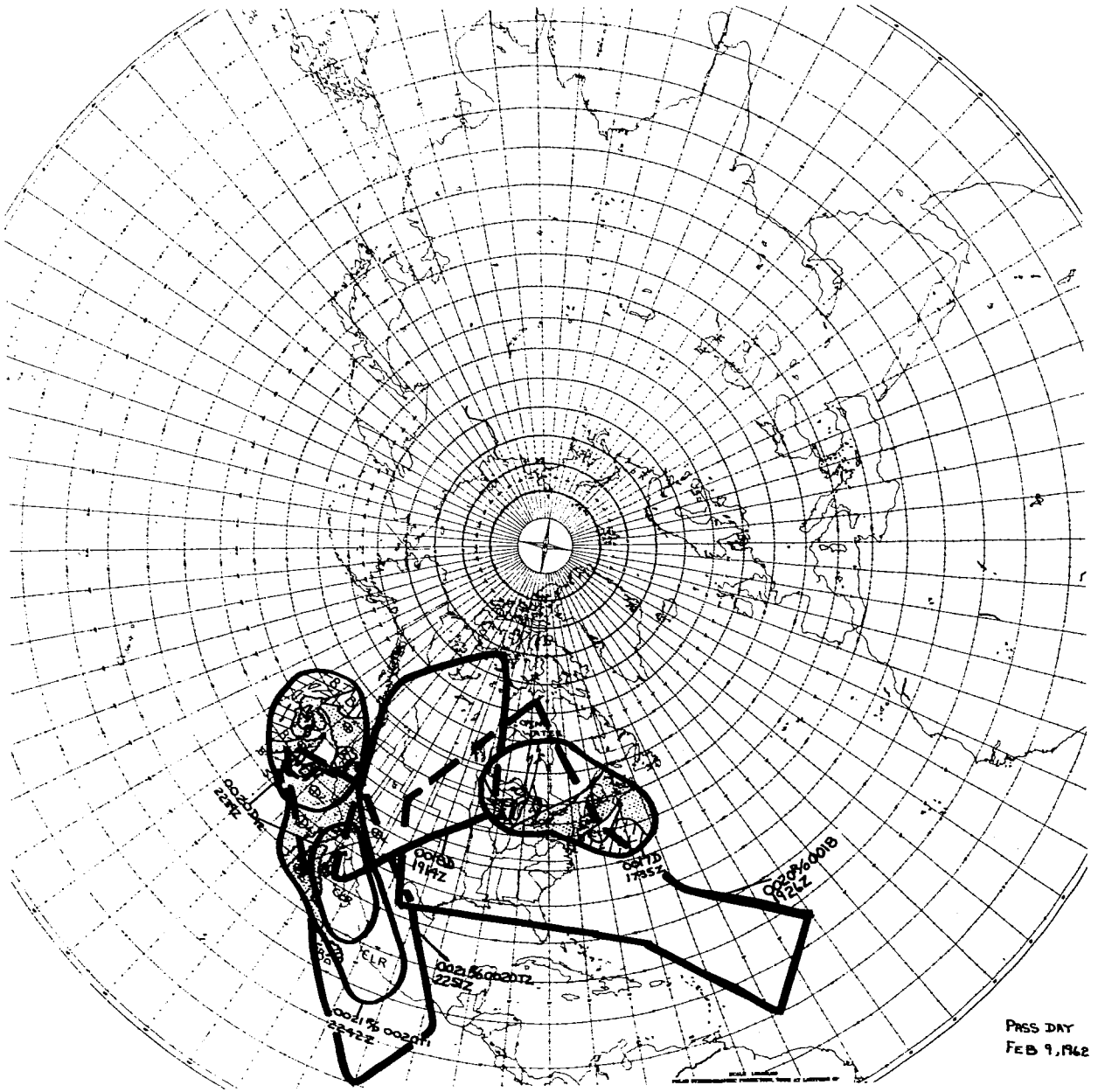
KEY TO GEOGRAPHICAL AREAS

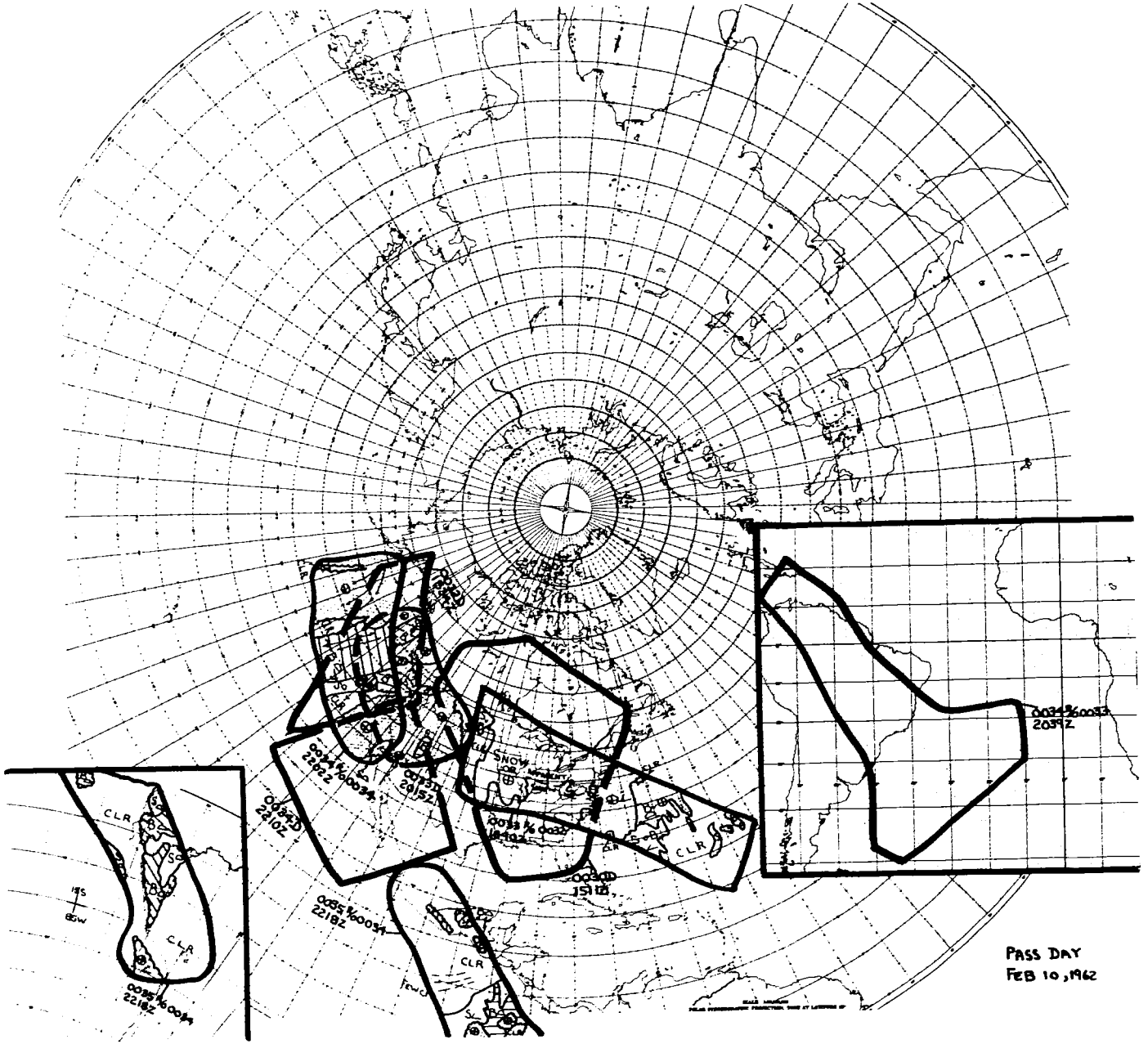


PASS DAY
FEB 8, 1962
LAUNCH DAY
PART 1 OF 2

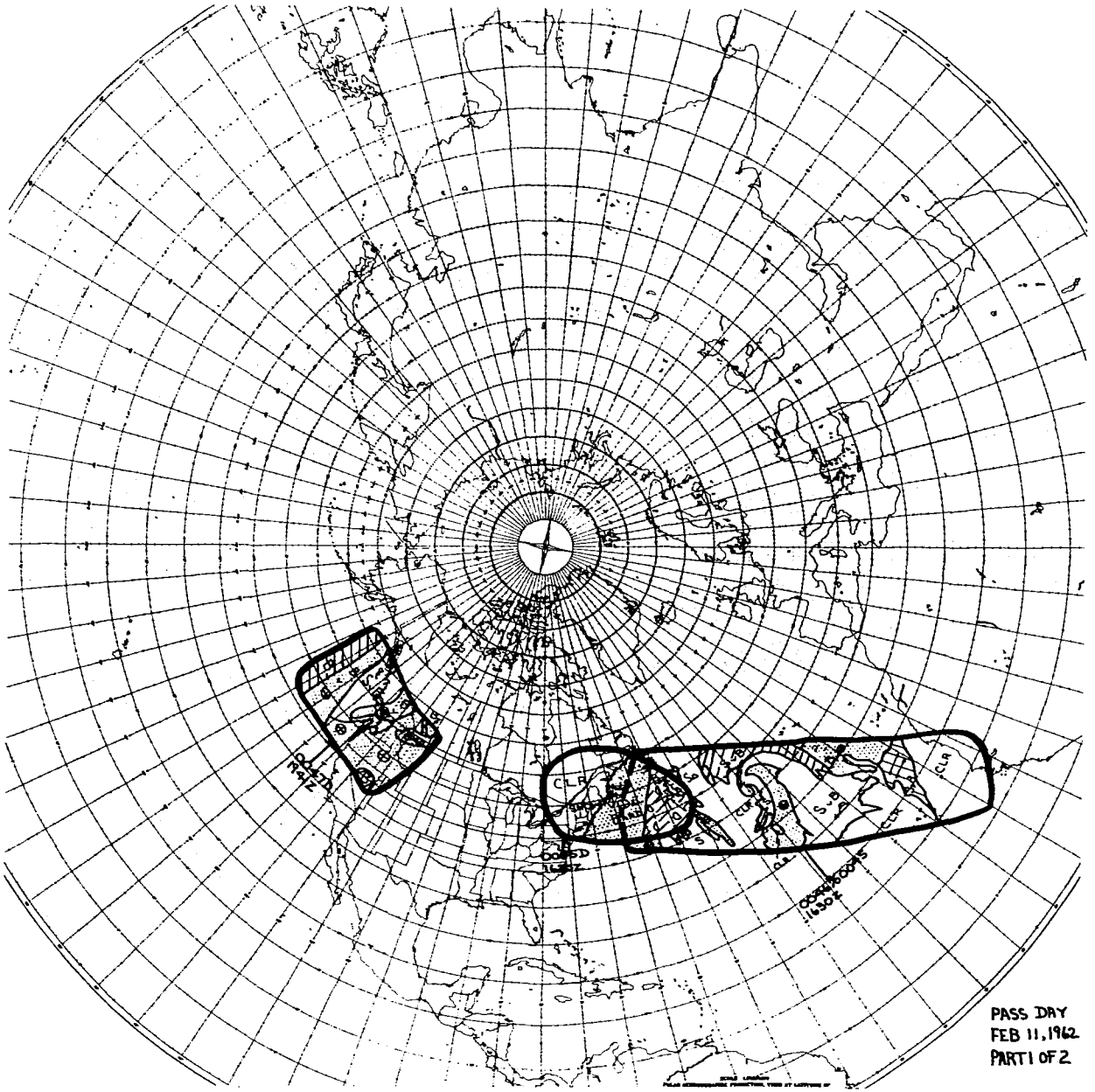


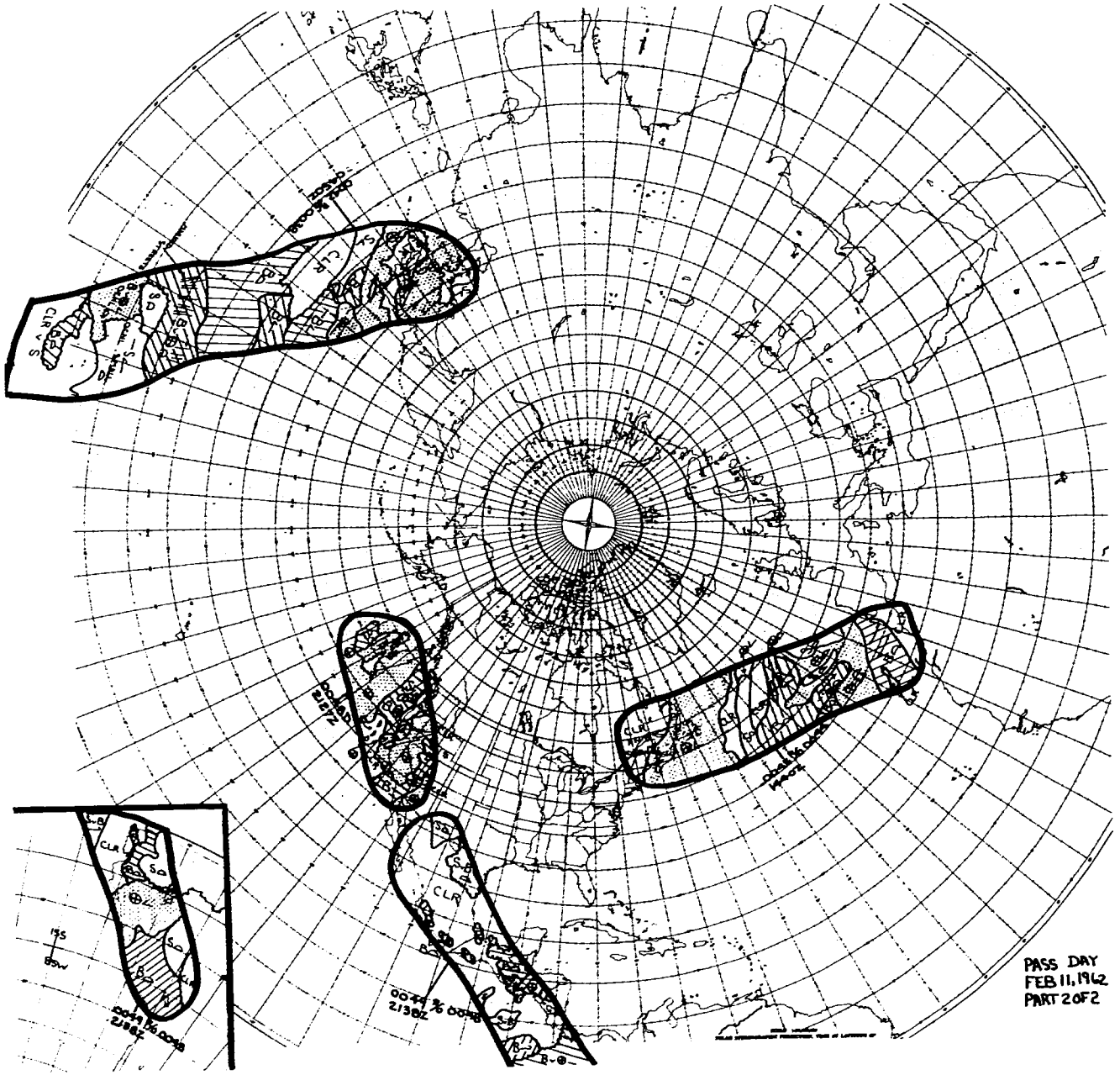
PASS DAY
FEB 8, 1962
LAUNCH DAY
PART 2 OF 2

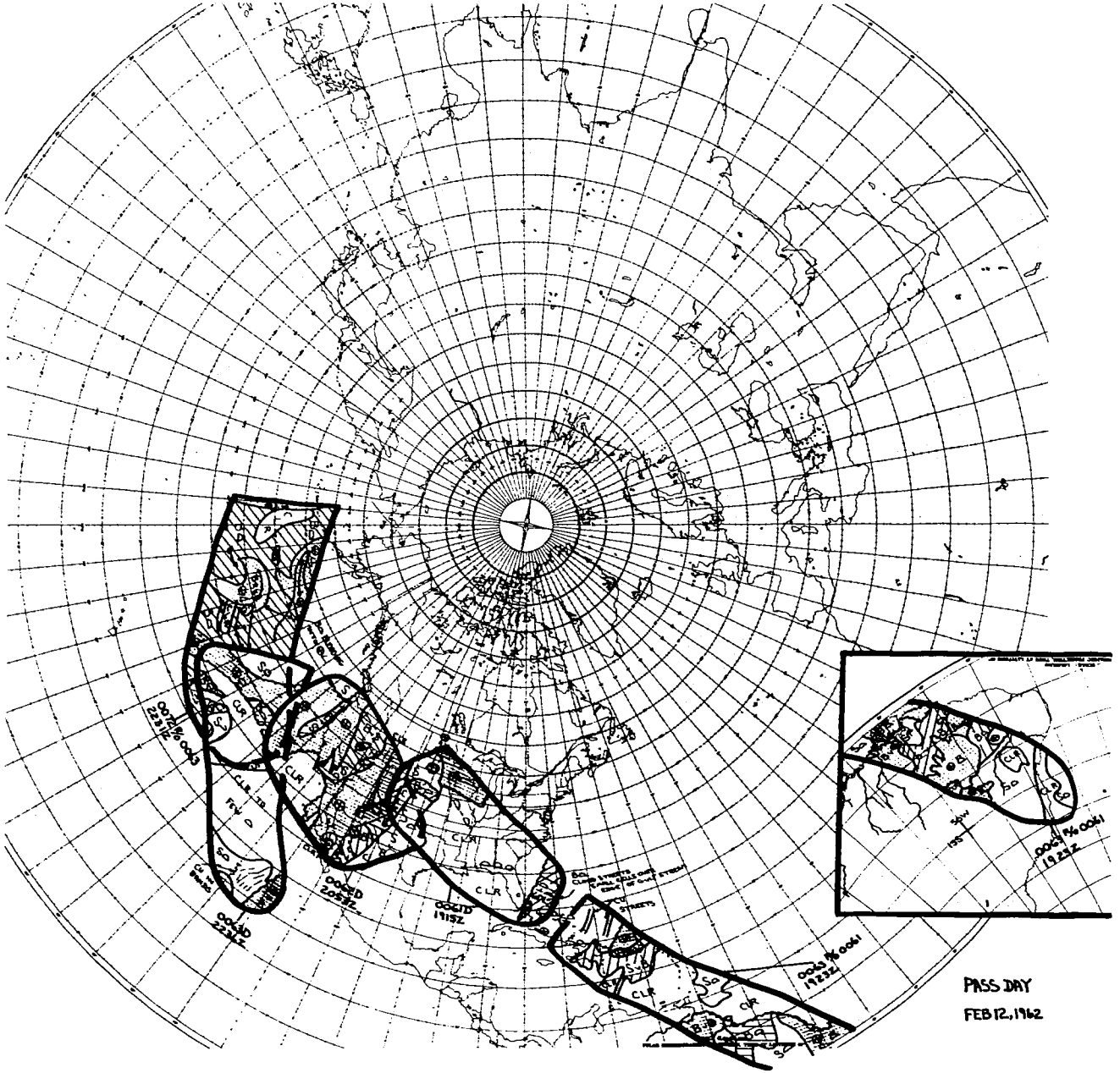

PASS DAY
FEB 9, 1962

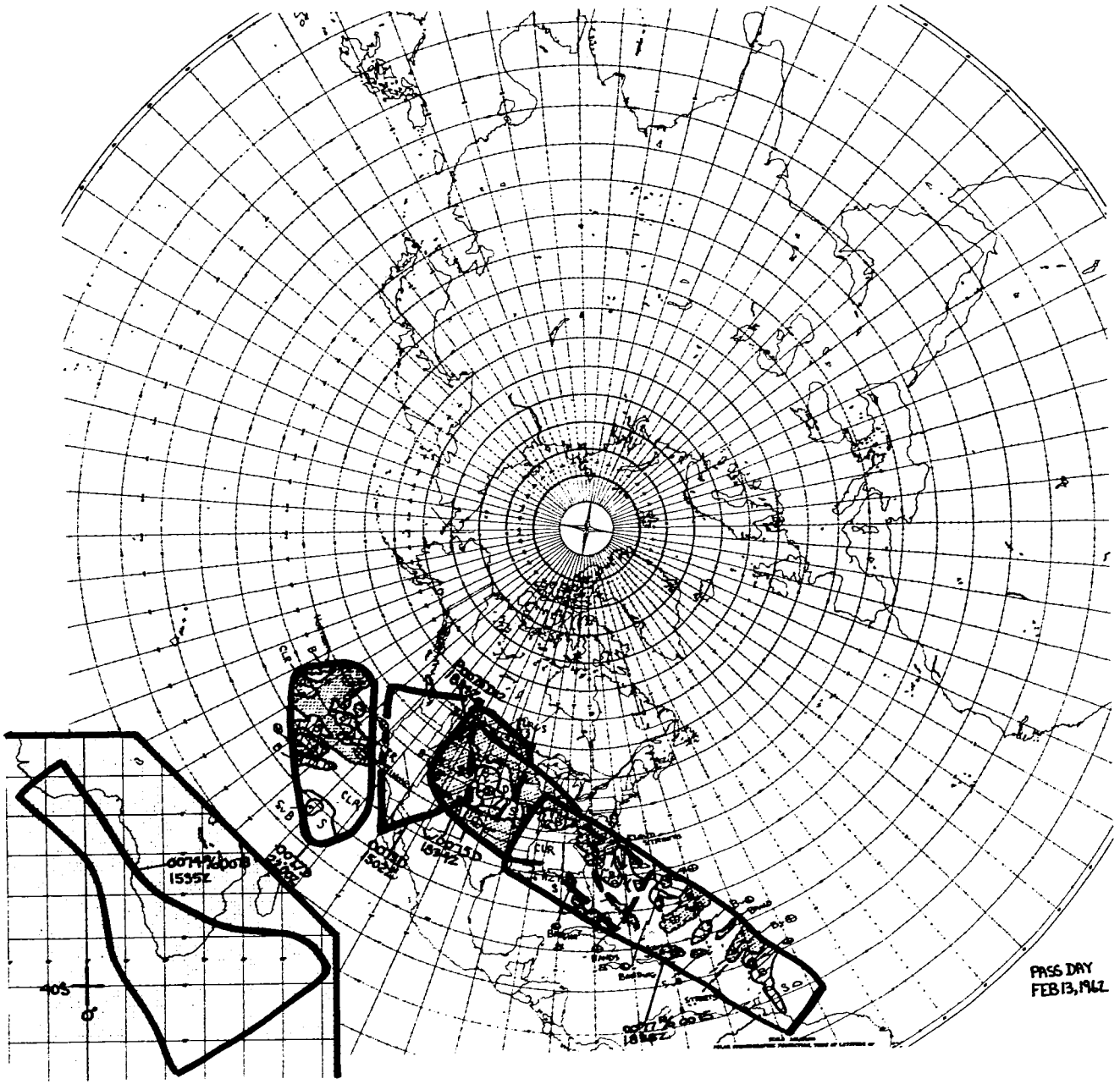


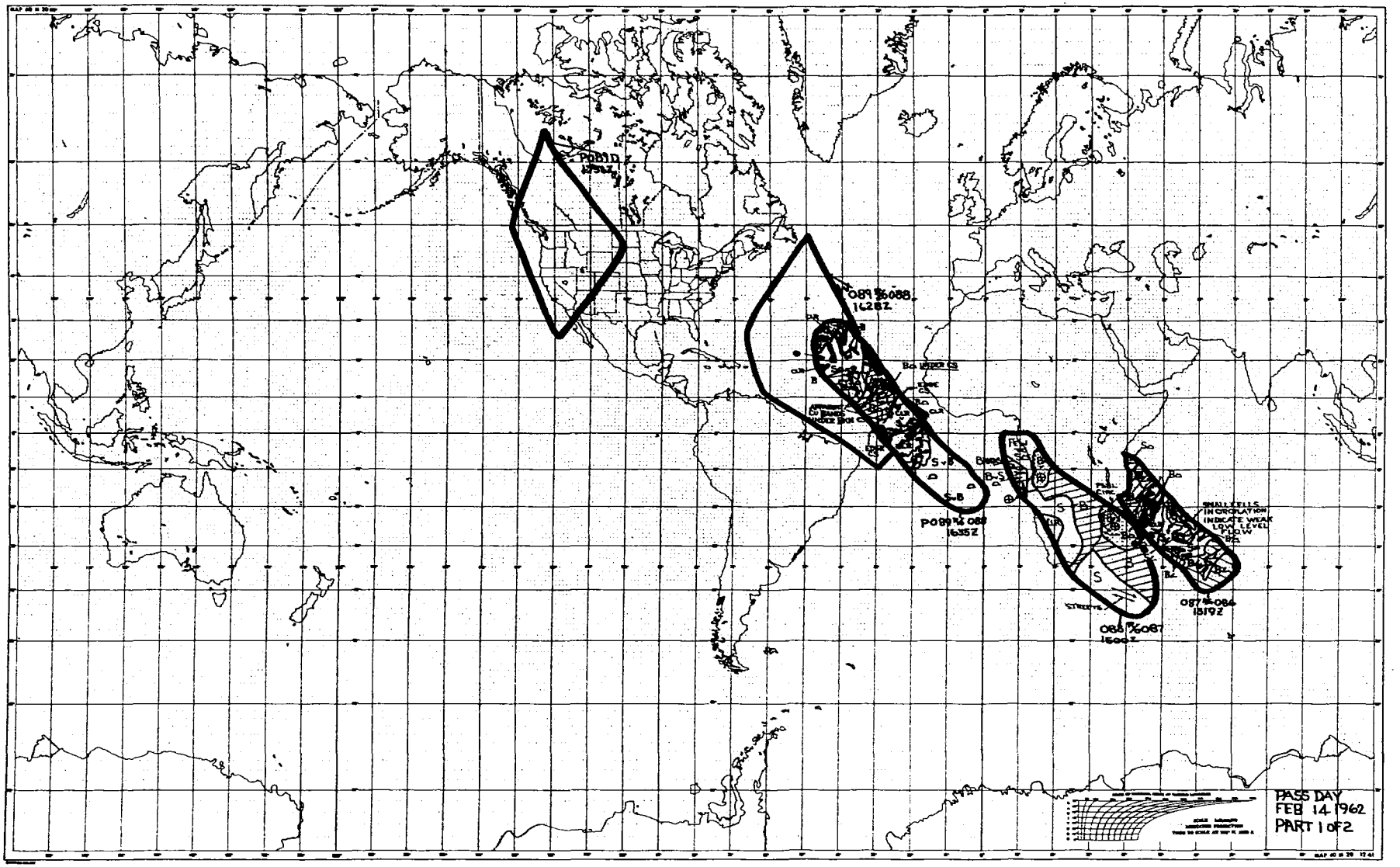
PASS DAY
FEB 10, 1962


CLR
CLR
CLR
CLR
S-B
S-B
S
S
S

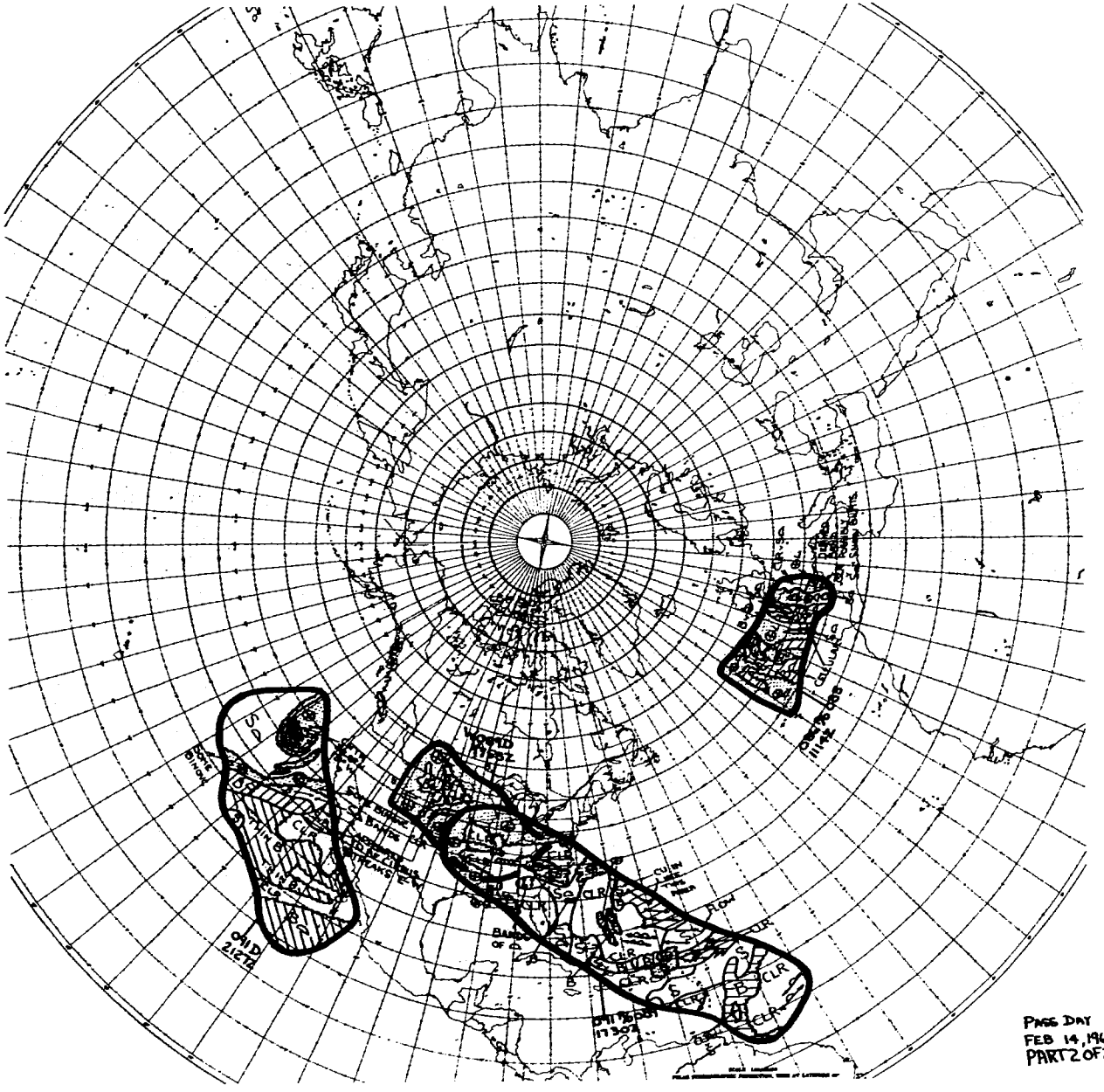

PASS DAY
FEB 11, 1962
PART 2 OF 2


PASS DAY
FEB 12, 1962

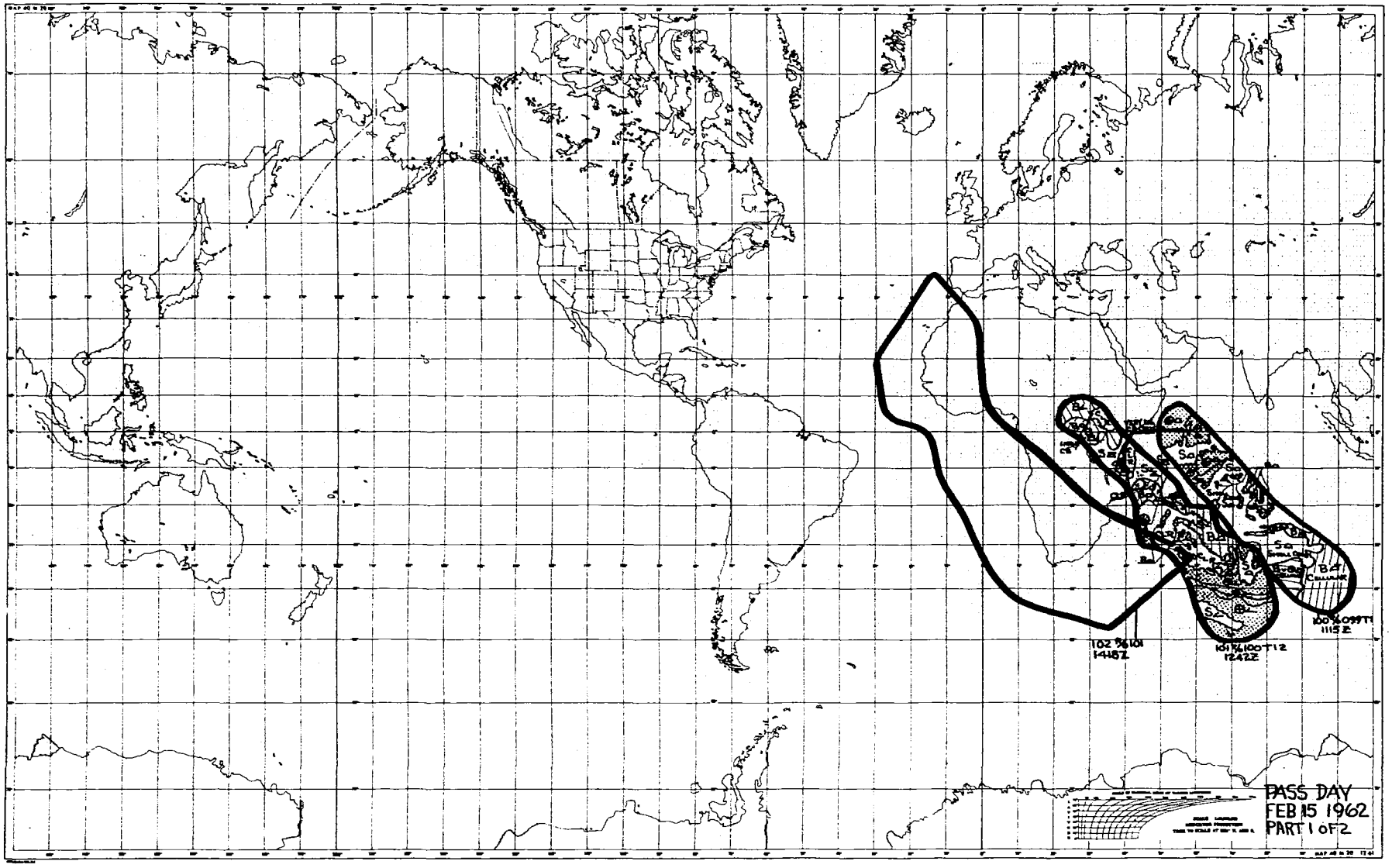

PASS DAY
FEB 13, 1962
40S
0°
CLR
CUR
1535Z

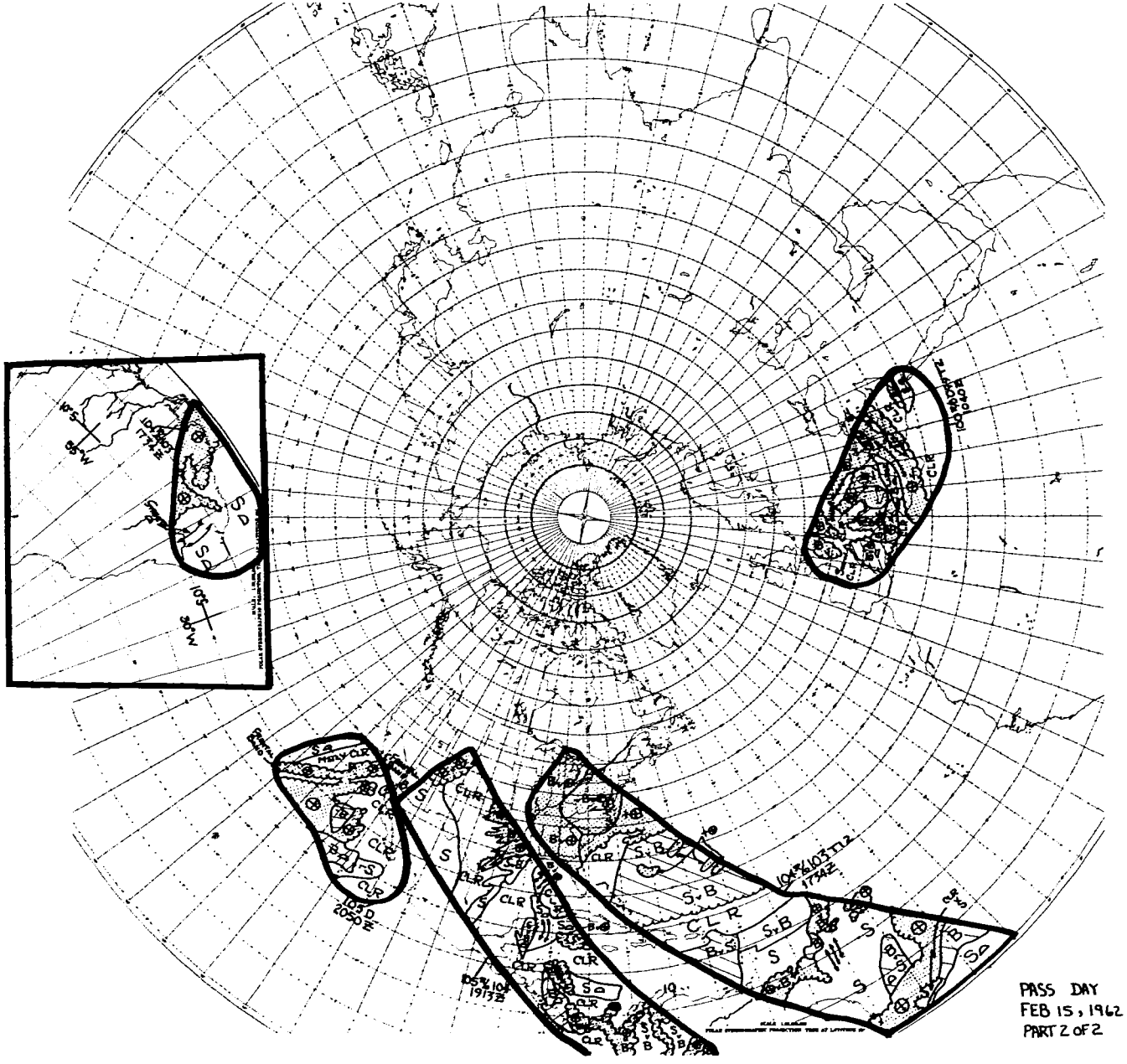


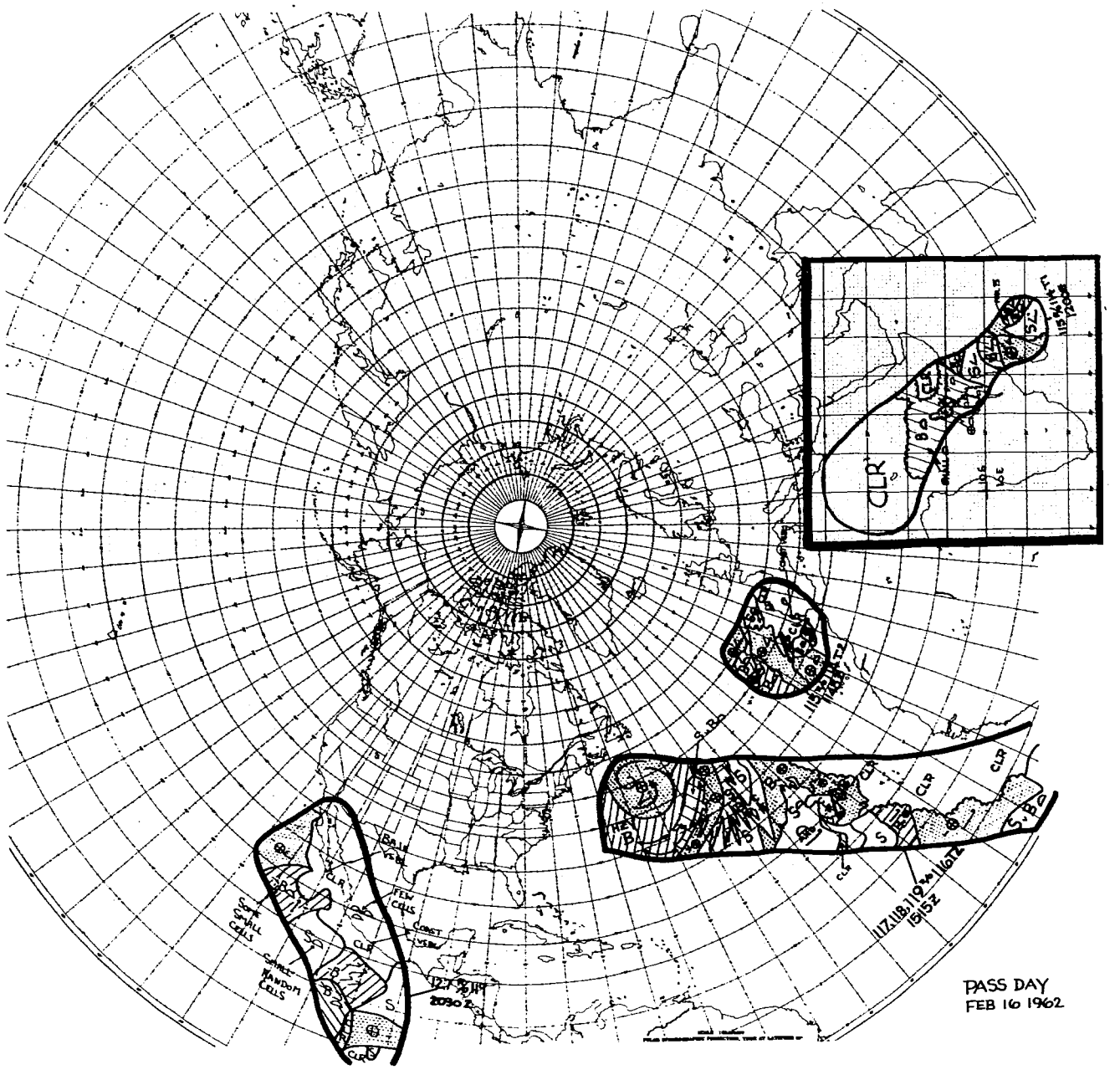
P089D
1628Z
089 5/6 088
1628Z
P089 5/6 088
1635Z
088 5/6 087
1500Z
087 5/6 086
1519Z
SMALL CELLS IN CIRCULATION INDICATE WEAK LOW LEVEL FLOW
PASS DAY
FEB 14 1962
PART 1 OF 2

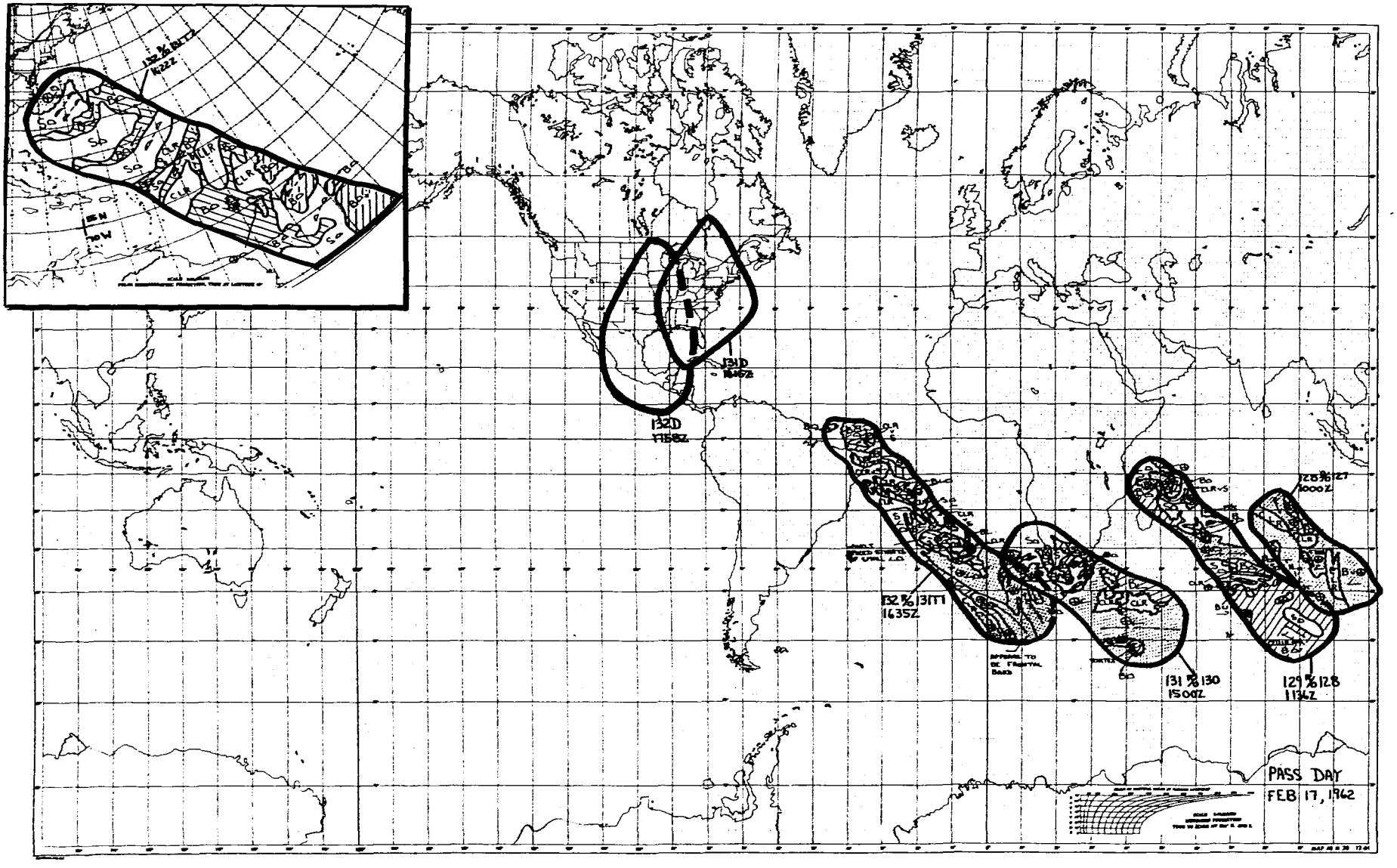


PASS DAY
FEB 14, 1962
PART 2 OF 2

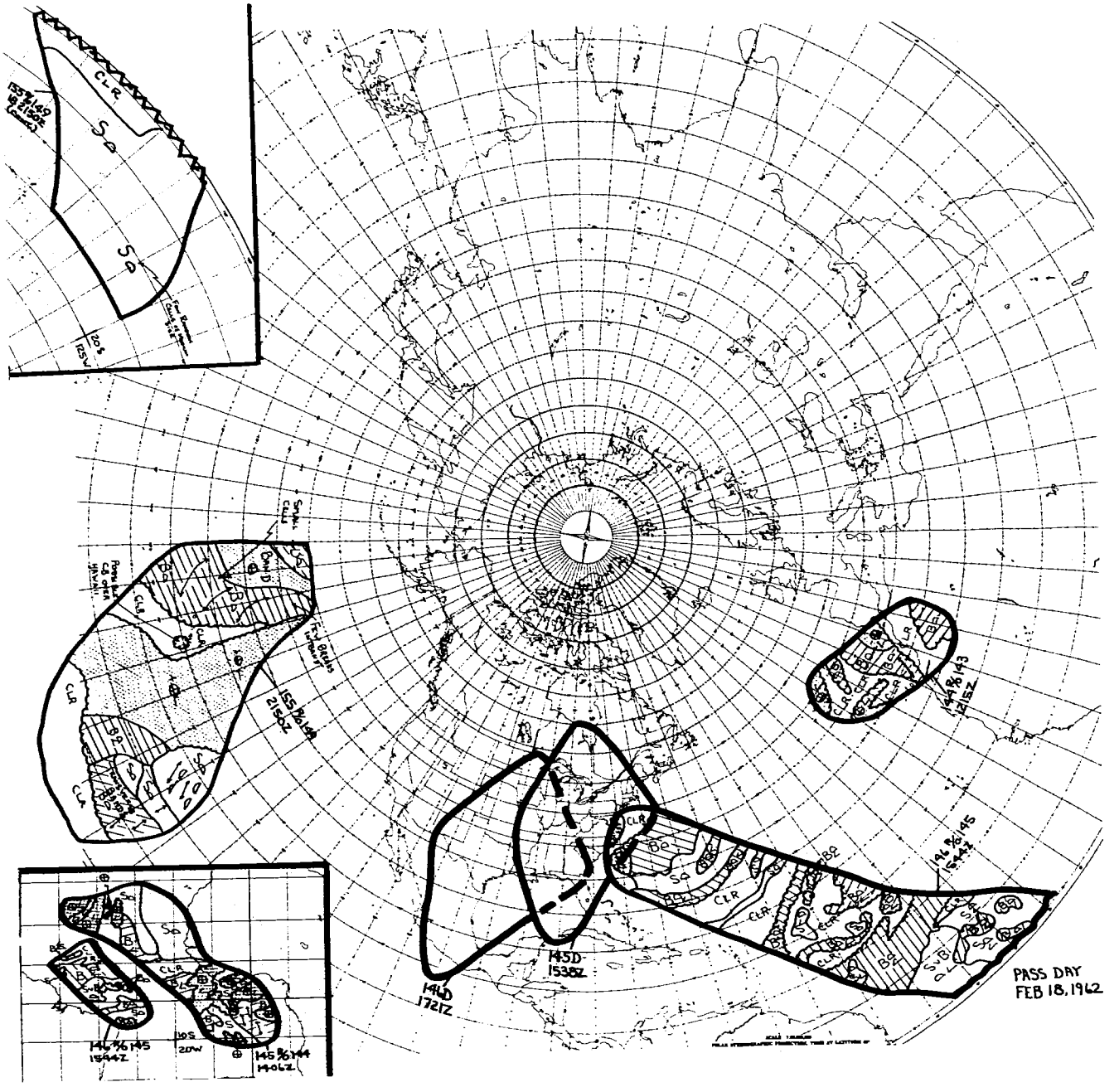

102 %101
1418Z
101 %100 T12
1242Z
100 %099 T1
1115Z
PASS DAY
FEB 15 1962
PART 1 OF 2


PASS DAY
FEB 15, 1962
PART 2 OF 2

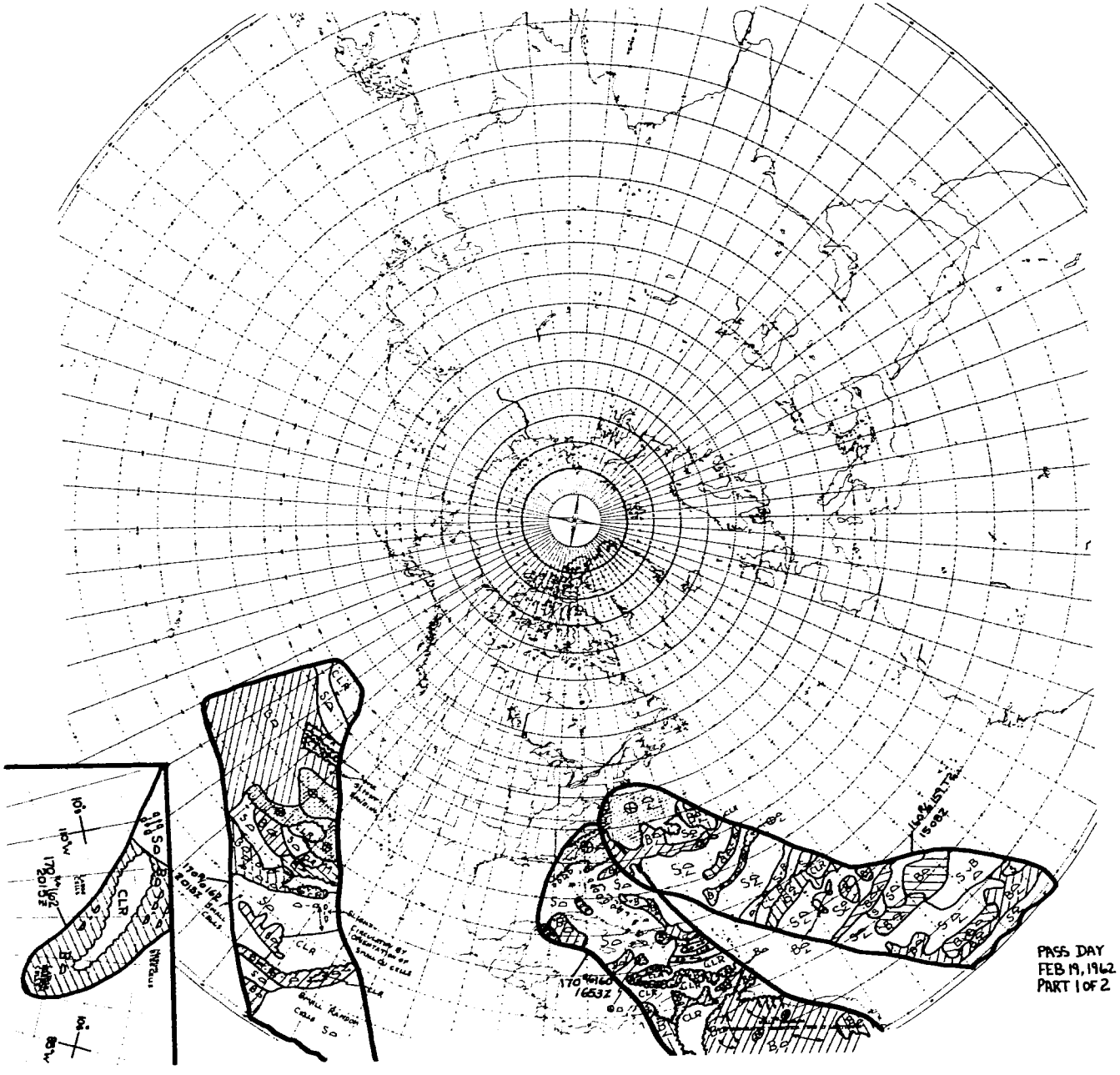

CLR
SOME SMALL CELLS
SMALL RANDOM CELLS
FEW CELLS
CLR
S
2030 Z
1515 Z
PASS DAY
FEB 16 1962

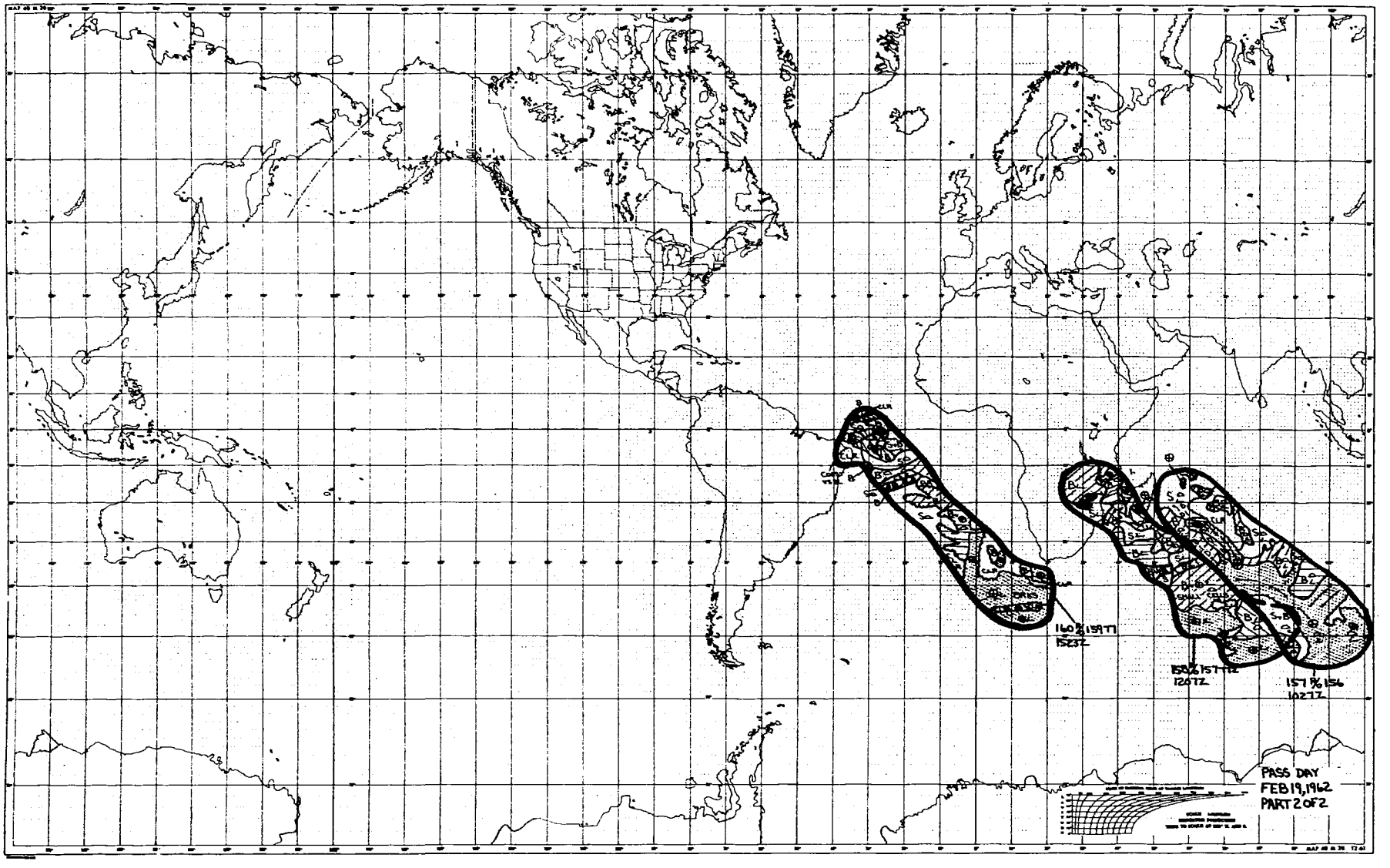


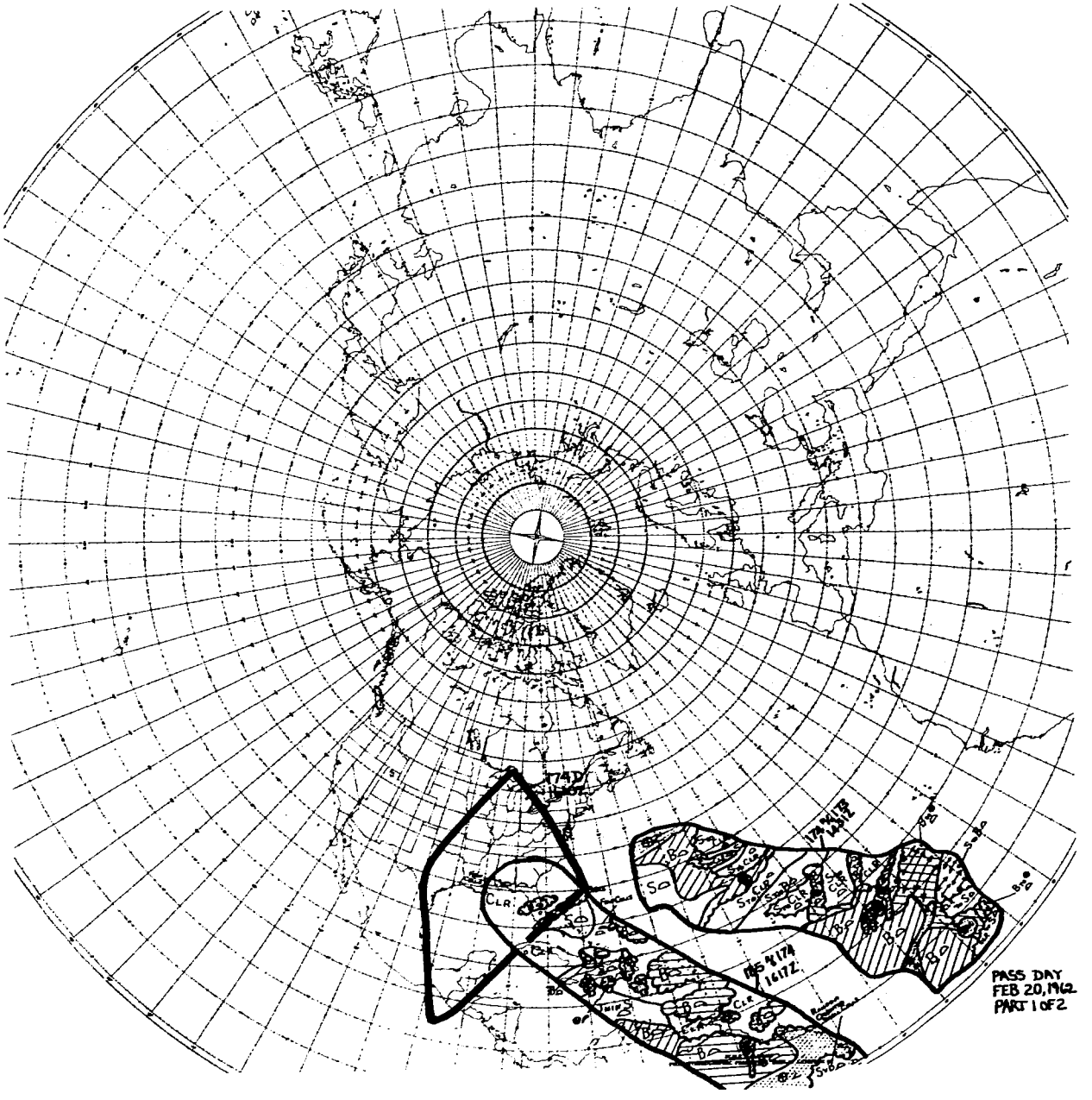
132D
1758Z
131D
1615Z
132 % 131T
1635Z
131 % 130
1500Z
129 % 128
1136Z
128 % 127
1000Z
PASS DAY
FEB 17, 1962

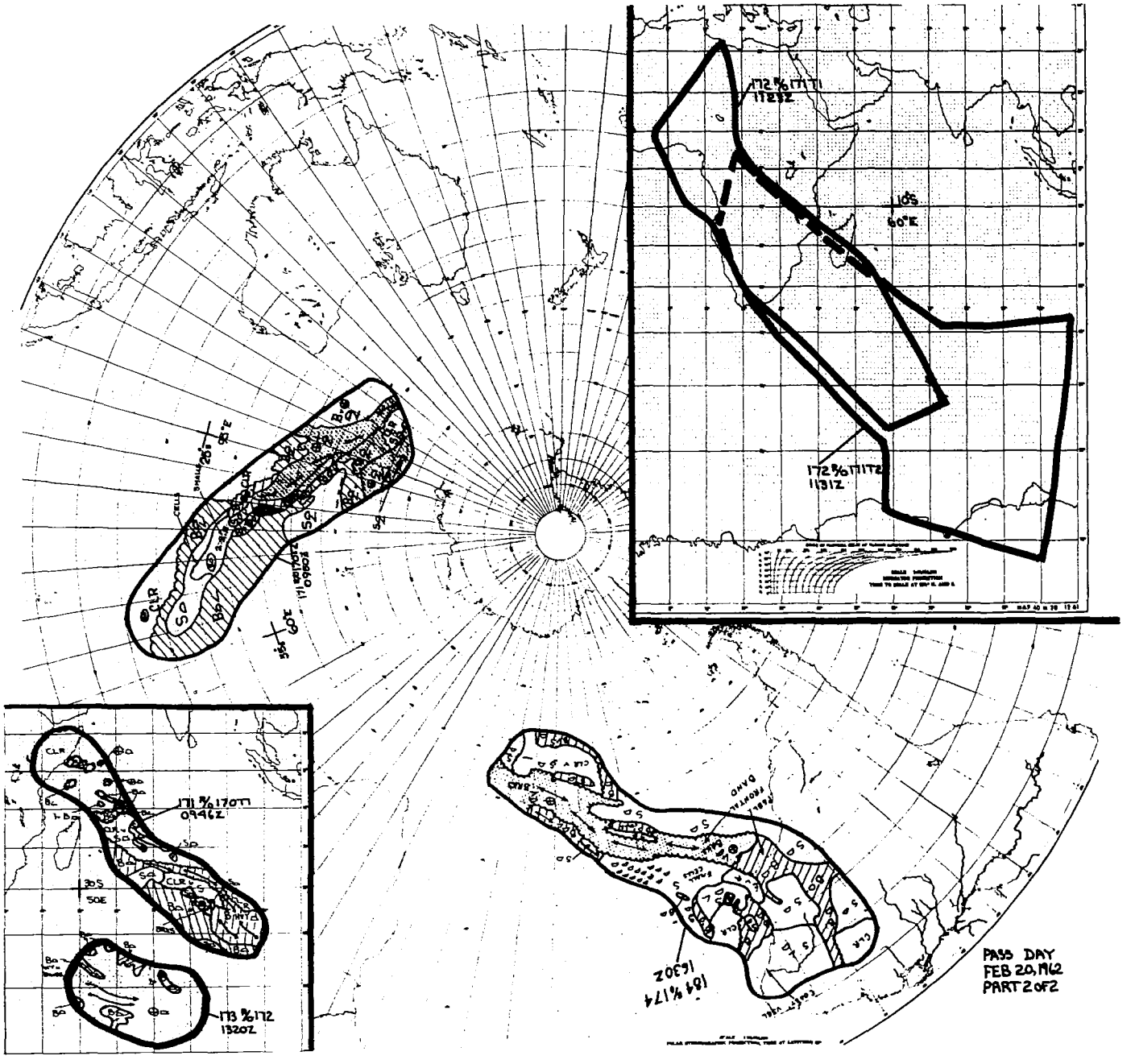


CLR
Sa
155 R/o 149
18 2150Z
20 S
125W
155 R/o 149
2150Z
144 R/o 143
1215Z
146 R/o 145
1544Z
145D
1538Z
146D
1721Z
146 R/o 145
1544Z
145 R/o 144
1406Z
10 S
20W
PASS DAY
FEB 18, 1962

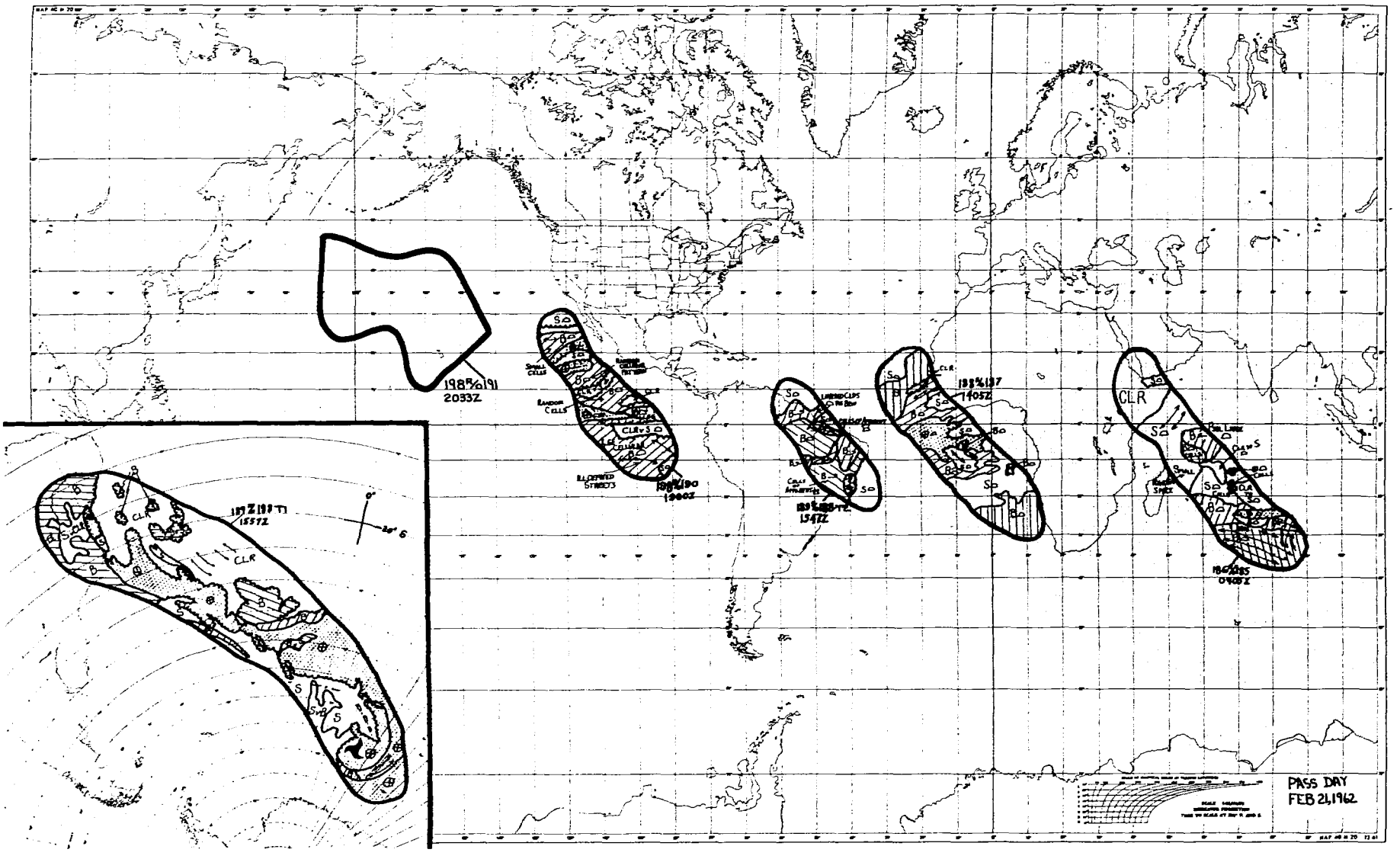

PASS DAY
FEB 19, 1962
PART 1 OF 2


160% 159 T1
1523Z
150% 157 T2
1207Z
157% 156
1027Z
PASS DAY
FEB 19, 1962
PART 2 OF 2

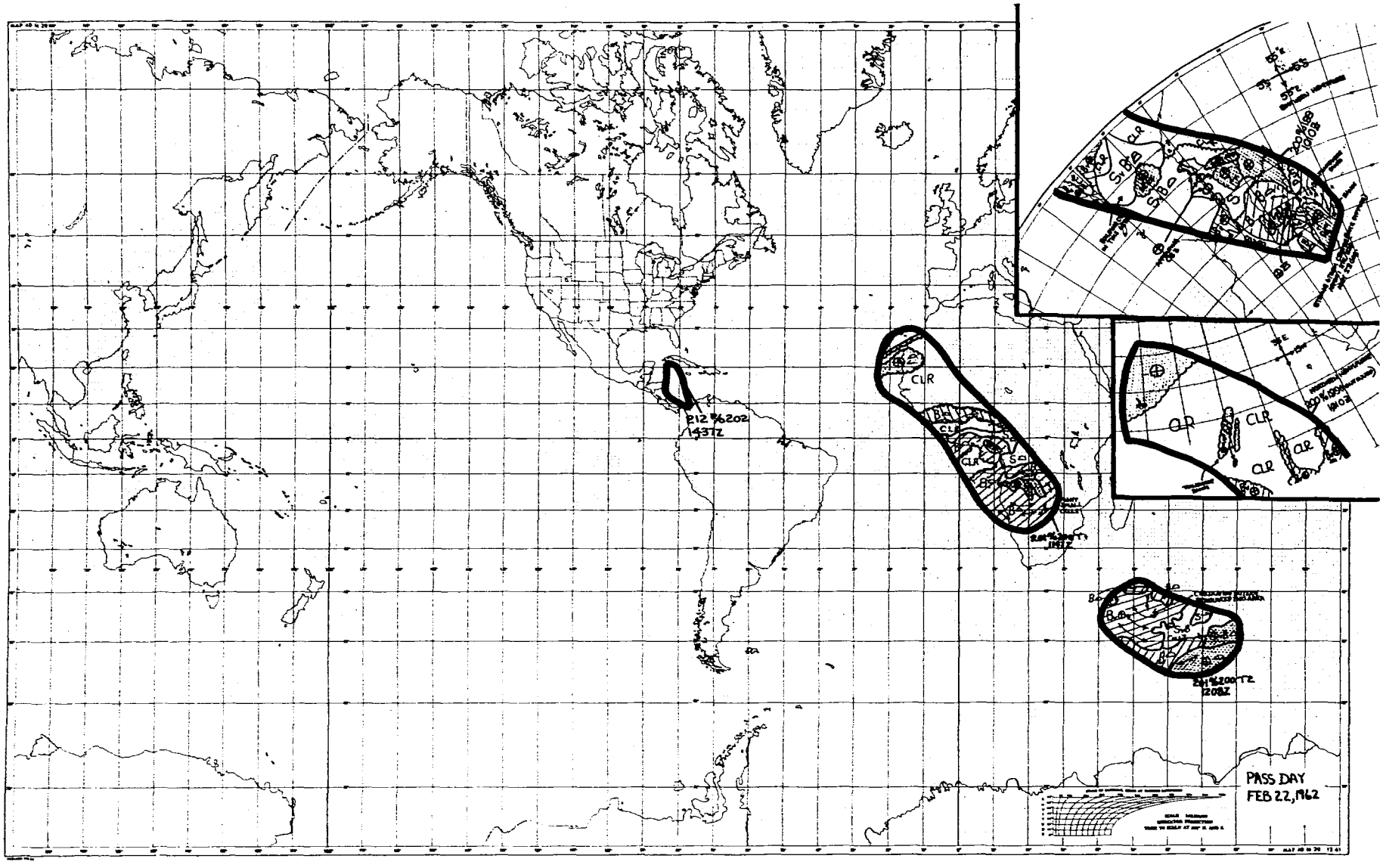

174D
174 X 17
1401Z
CLR
CLR
CLR
CLR
Sc
Sc
Sc

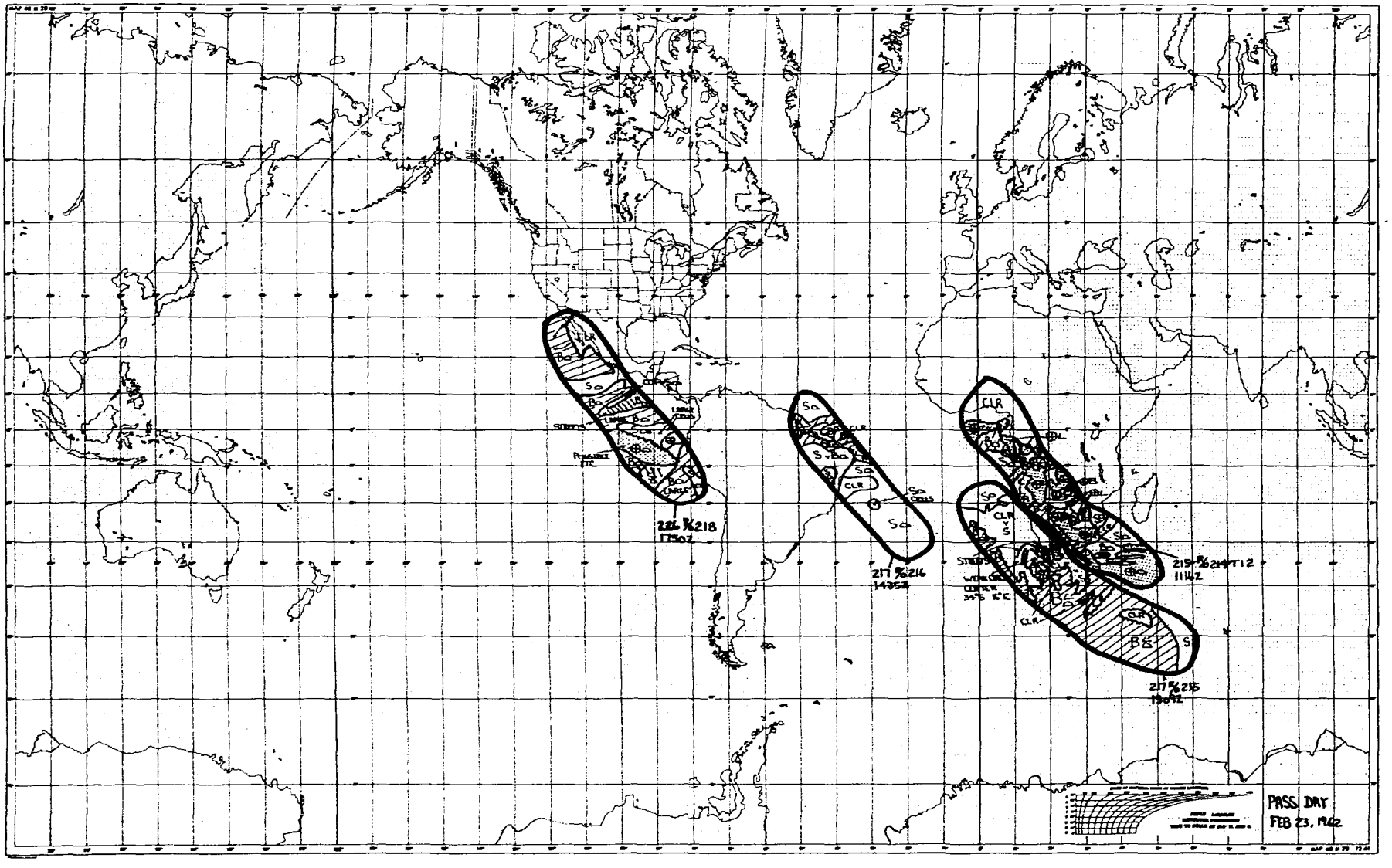


172 R/ 171 T1
1123Z
10°S
60°E
172 R/ 171 T2
1131Z
171 R/ 170 T1
0946Z
30S
50E
173 R/ 172
1320Z
184 R/ 174
1630Z
PASS DAY
FEB 20, 1962
PART 2 OF 2

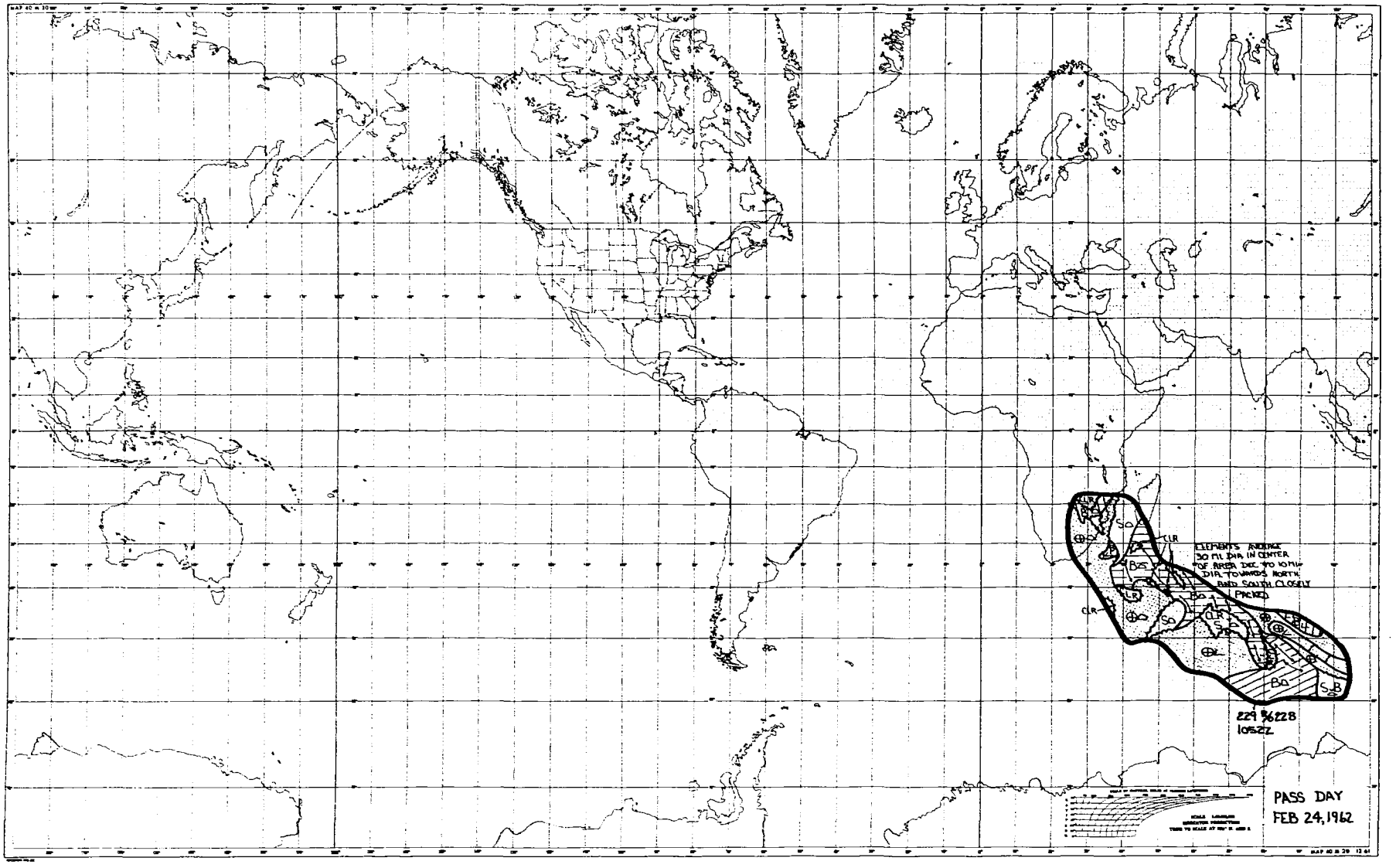


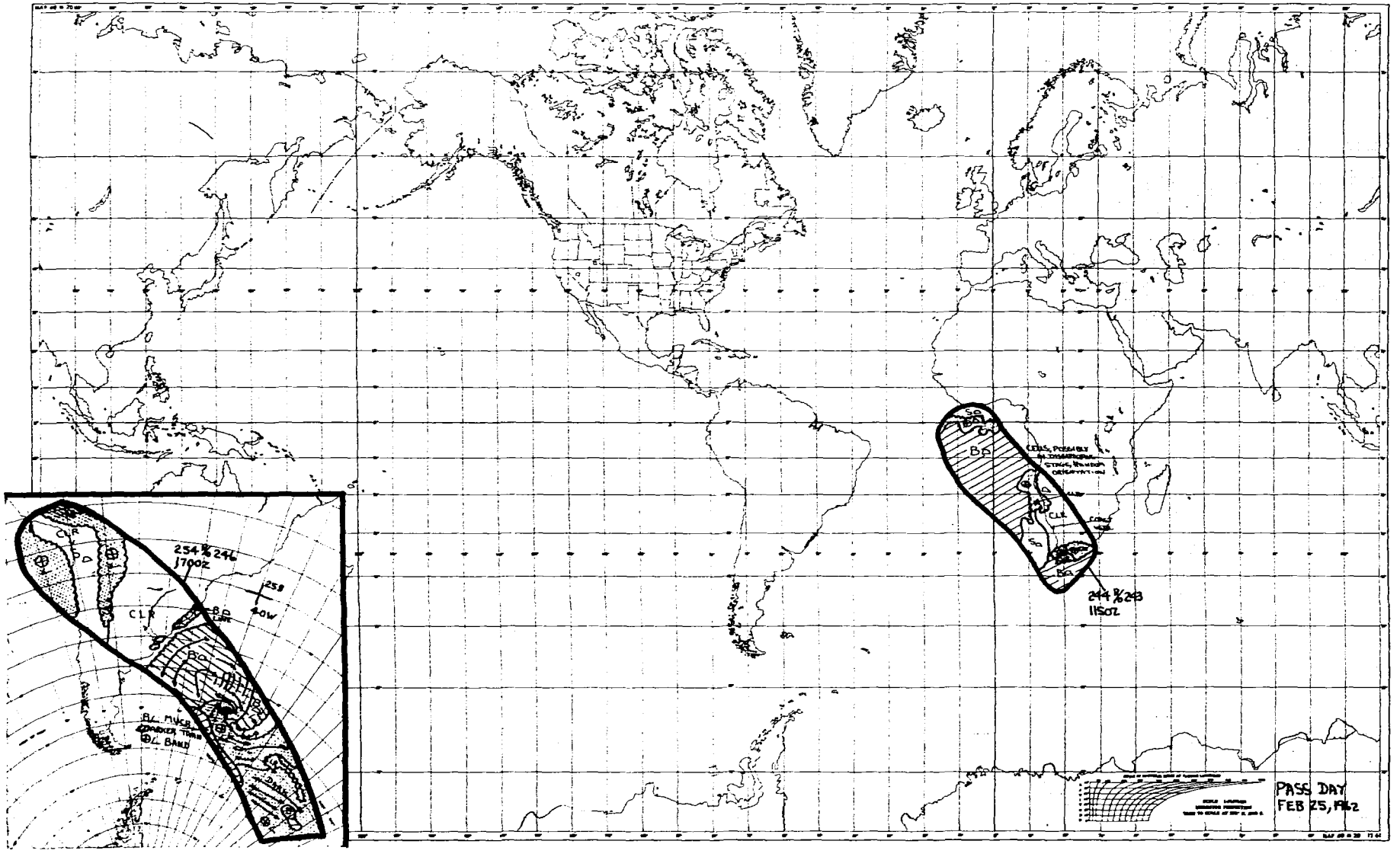
198%191
2033Z
CLR
1557Z
1547Z
1405Z
0405Z
PASS DAY
FEB 21,1962


CLR
PASS DAY
FEB 22, 1962

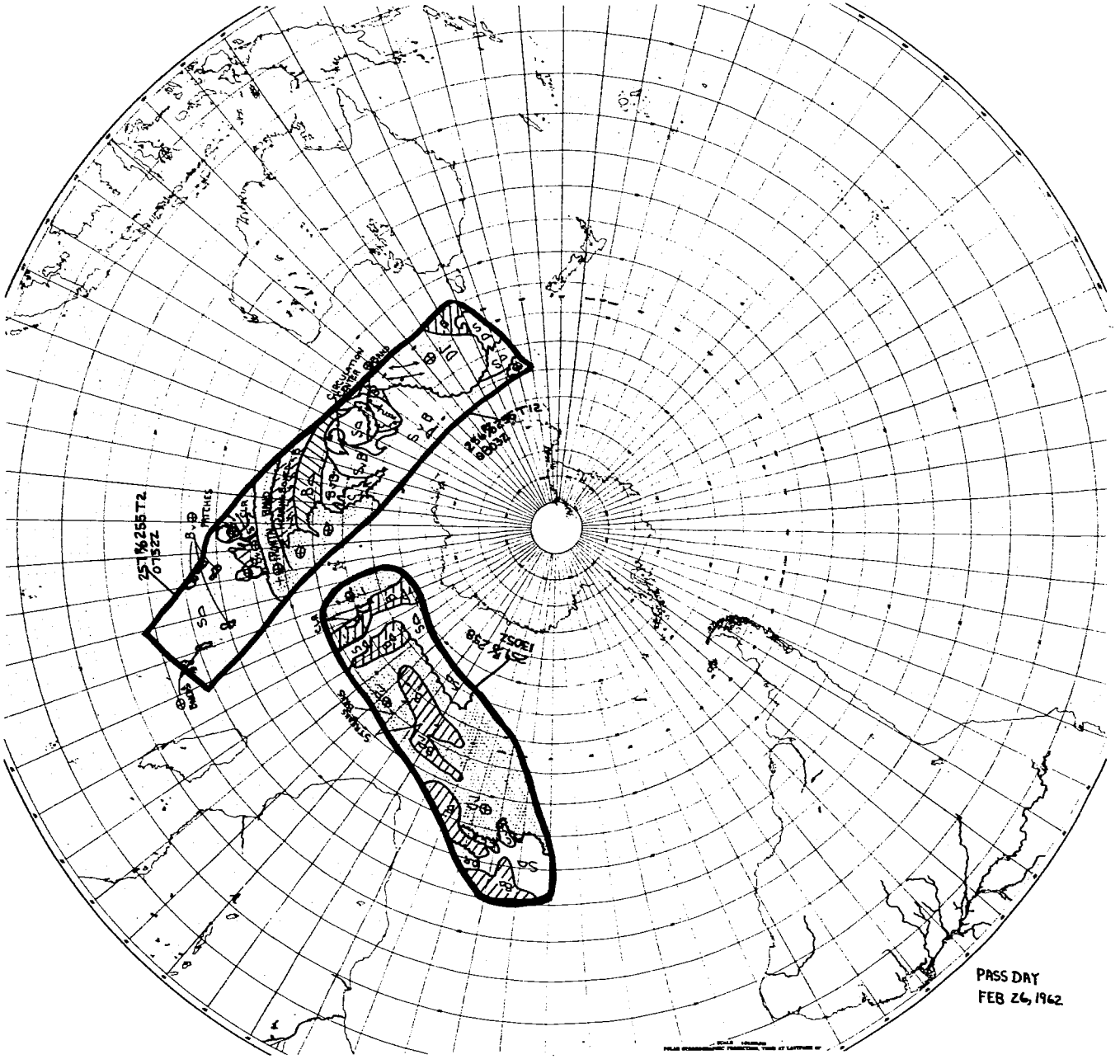


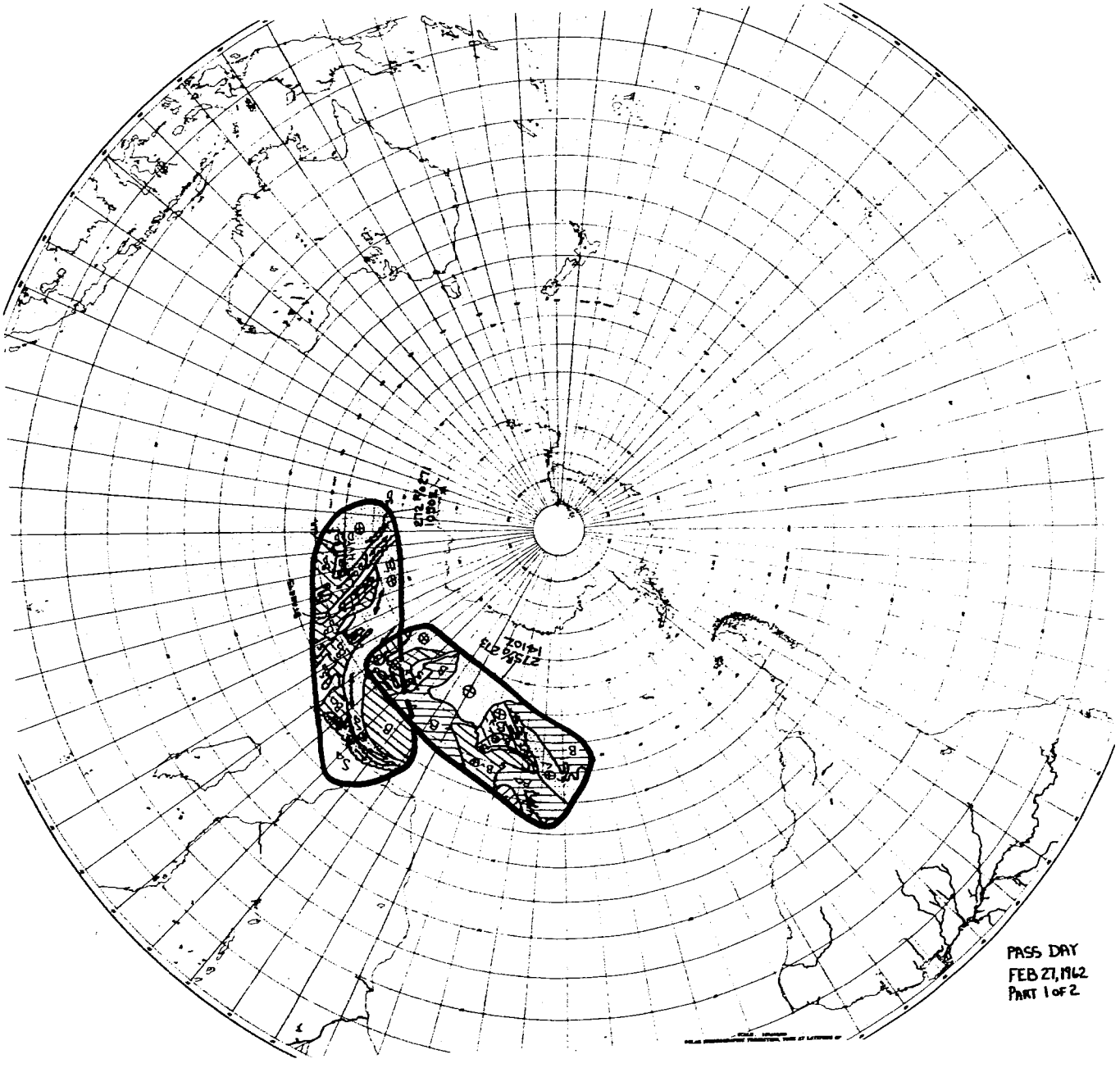
CLR
Sa
Ba
S
226 R/218
1750Z
217 R/216
1435Z
215 R/214 T12
1116Z
217 R/215
1909Z
PASS DAY
FEB 23, 1962

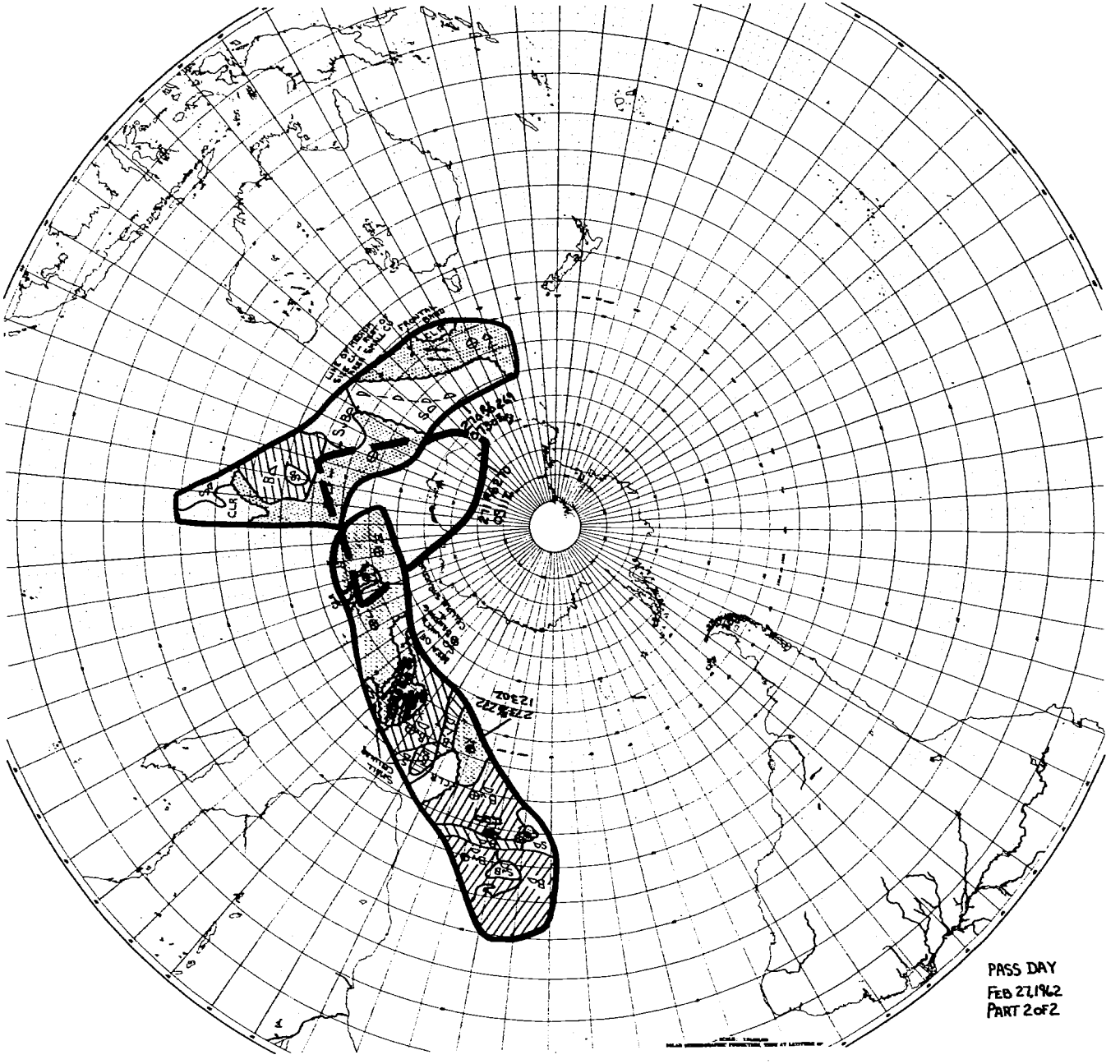

CLEMENTS AVERAGE
30 MI DIA IN CENTER
OF AREA DEC TO 10 MI
DIA TOWARDS NORTH
AND SOUTH CLOSELY
PACKED
CLR
229 5/6228
10522
PASS DAY
FEB 24, 1962

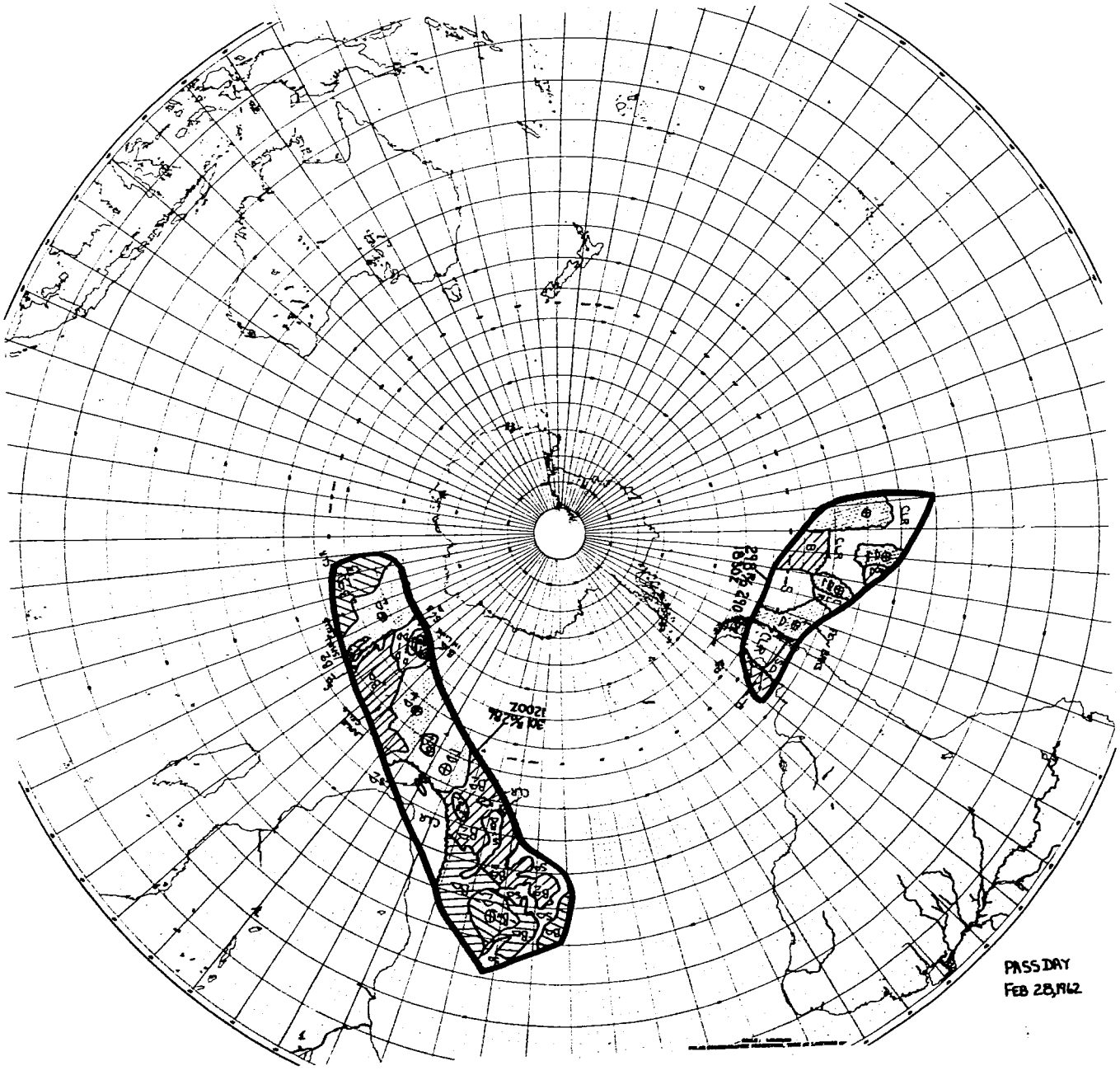


CLR
254 & 246
1700Z
258
40W
CLR
BL MUCH
DARKER TRAIN
BL BAND
CELLS, POSSIBLY
IN DISSIPATING
STAGE, RANDOM
ORIENTATION
CLR
244 & 243
1150Z
PASS DAY
FEB 25, 1962


PASS DAY
FEB 26, 1962


PASS DAY
FEB 27, 1962
PART 1 OF 2


CLR
BL
S
S
S


PASS DAY
FEB 28,1962