

APPENDIX I.

OPERATIONAL CHECKLISTS

19771005N1 - LPS

FORM I-1

Onboard Lead Project Scientist CHECKLIST

DATE Oct. 5, 1977AIRCRAFT NASA-990FLT 771005N1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>B. LEWIS</u>	Gust Probe	<u>N/A</u>
Cloud Physics	<u>Grota Boat Bostick</u>	Omega Sonde	<u>N.A.</u>
AXBT	<u>N/A</u>	Sys Eng	<u>GROTA (ERL)</u>
Hot Film	<u>N/A</u>	Data Tech	<u>DIANA BOSTICK (ERL)</u>
Radar	<u>Lewis</u>	EI Tech	<u>Panseggi (NASA)</u>
Flt DIR/MET	<u>E. Petersen (NASA)</u>	Other	<u>Photo DINO (NASA)</u>

Time Off 164000Z Location Aimes Research Center Moffet field, Calif Time On 1737Z Location Merimar Calif for Return

202059Z Merimar 37 24.4N 10/6/77 0158Z Merimar, Calif. fuel
32 51.8' 117.13' 122 02.7W 10/6/77 0435Z Aimes Res. Center Calif
0332Z Merimar

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
NHC. 10/5/77	22Z	21.5	115.5	NHC. 10/5/77	14Z	19.8	113.8	20.0/65kt
051500Z 2000 S.F. #7	00Z	22.5	114.4	Avi #7 10/05/77	15Z	20.0	113.2	NOT AVAIL. 54 kt 75 kt
10/6/77	12Z	25.4	114.6	NASA 10/05/77	220604Z	2056	114.48	98/100
				42C 10/05/77	2309Z	21°10'N	115°01'	72/100
				NASA 10/05/77	233902Z	21°16'N	115°01'	

wind at about 114°55'

C. Mission Briefing

Fly outflow model pattern about Hurricane (ST.) Heather.

Enroute fly below Ci shield and get sea surface temp. using

ATI 25K ft.; climb slowly through outflow starting about 22°N. (1/2 inch)

Repeat descent through outflow after flying outflow pattern

in page 40 of 1977 hurricane field program plan. fly inter

circle time permitting. IN storm 2200Z

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D. Equipment Status

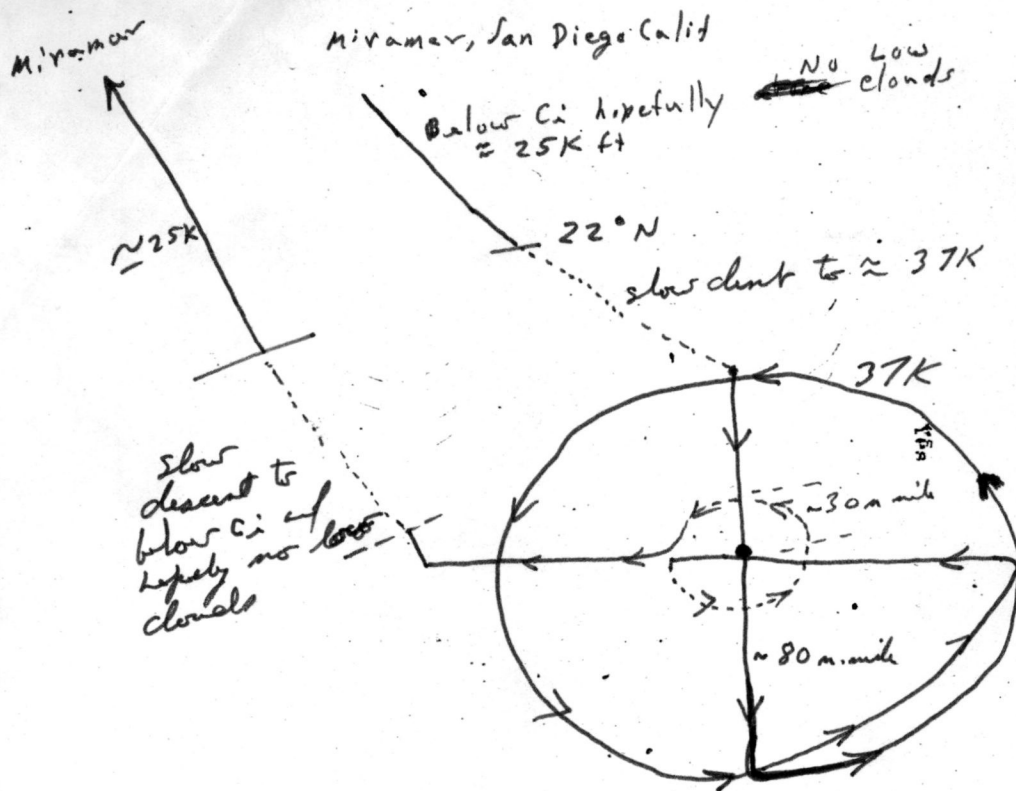
<u>Equipment</u>	<u>Pre Flt</u>	<u>To Miramar To Station In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	OK	OK		
Radar	No Power	(3) (2) OK Display Prob.		
Cloud Physics	1	1		
Data Sys	No Power	OK		
Omega Sondes	N/A	N/A		
AXBT	N/A	N/A		
Gust Probe	N/A	N/A		
Hot Film	N/A	N/A		
Photography	OK	OK		
Micro Wave	OK	OK		
WWV? Was checked at Aimes before take off.				

REMARKS

- 1) NOAA-ERL data system not working on way to Miramar N.A.S. IR Temp + D.S. in operation. Data tape machine looped out but will not write. Also, system error light comes on. Wrong calibration caused in I.R. (broken)
- 2) Weather Radar and camera OK
Weather T.V. Display failure.
working on problem 2106Z fixed 2122Z still some slight jitter.
- 1) 2112Z NOAA Tape recorder came up. Didn't have formatter turned on
- (3) Range marks are 180/7 ~ 26 miles The 180 range is not a mistake
- (4) 214028Z Radar turned on every other scan.
2242Z Radar cannot circuit breaker reset. No film until this time. Will have to use TV tape till this time.

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E. Proposed Flight Patterns



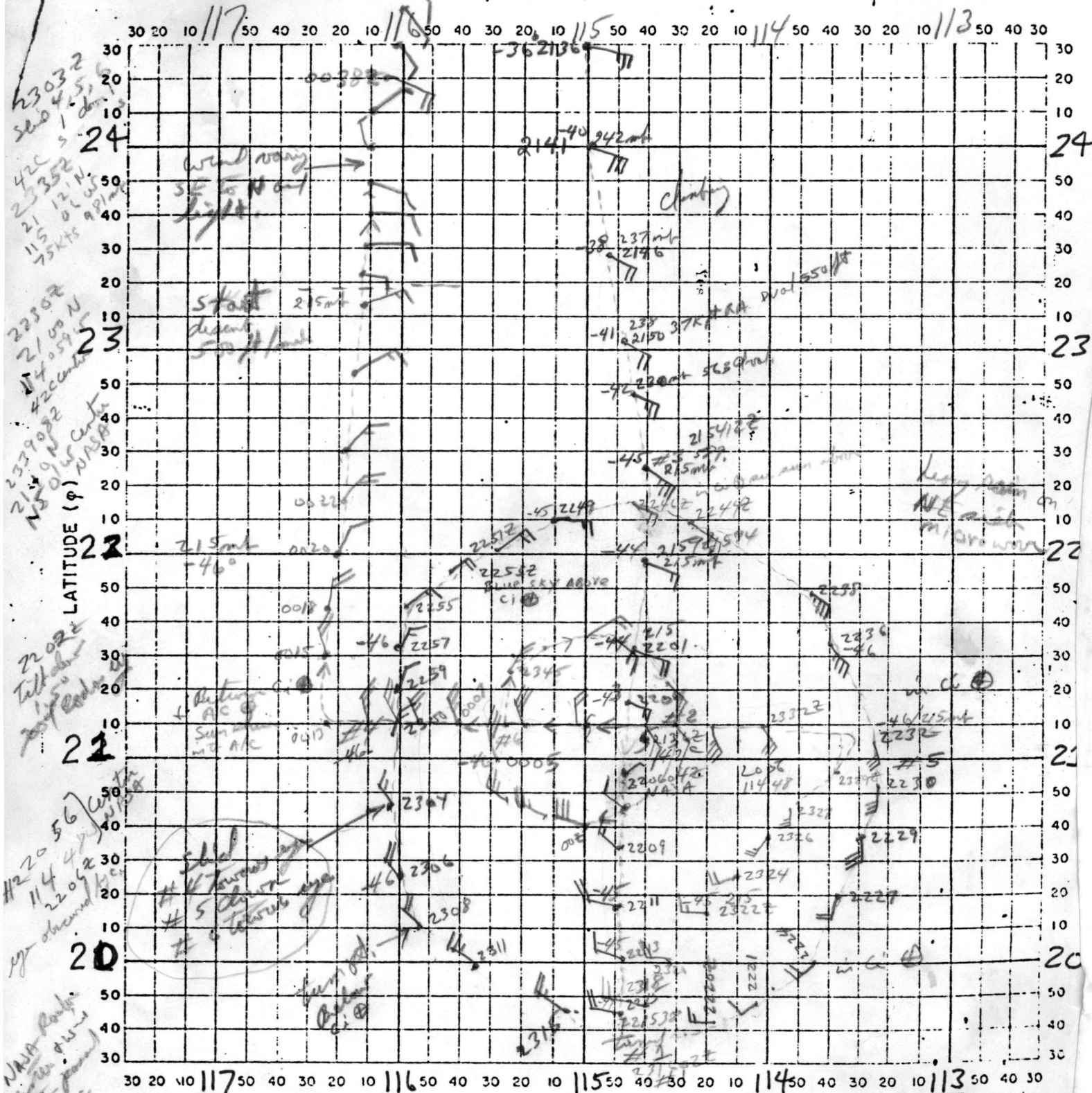
F. Actual Flight Patterns

as proposed.

771005N1

NASA 990

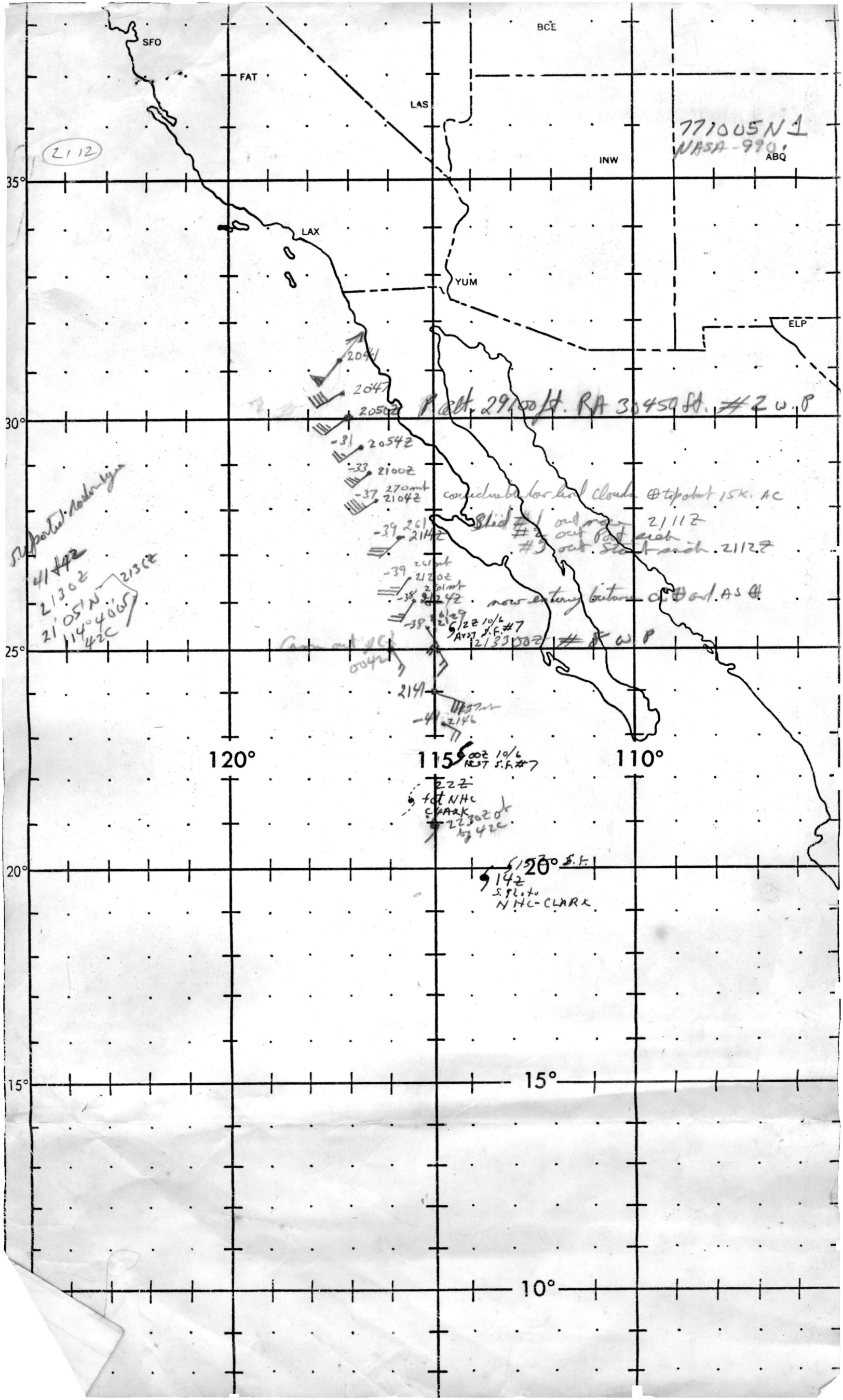
HURRICANE RECCO PLOTTING CHART

23562
met timeTRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ DATE Oct 5, 1972LONGITUDE (λ)OBSERVER. R. Lewis

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

42C
2309E
21N 10'
215° 01'
72KTS
CP 98 knots

eye visible on radar 233315Z 50 miles alt
eye 25 miles in dia 2335Z



NNNN

1824

RR KNKX

DE KAWN 051824Z OCT 77

ZUI KNKX 051824

WHPN23 KSFO 051500

HURRICANE HEATHER ADVISORY NUMBER 7.

NATIONAL WEATHER SERVICE SAN FRANCISCO CA

1500Z OCTOBER 05 1977.

HURRICANE CENTER LOCATED NEAR 20.0N 113.2W AT 051200Z.

POSITION GOOD BASED ON SATELLITE IMAGE.

PRESENT MOVEMENT NORTH NORTHWEST OR 330 DEGREES AT 15 KT.

MAX SUSTAINED WINDS 75 KT WITH GUSTS TO 85 KT.

RAD OF 50 KT WINDS 90 NM.

RAD OF 34 KT WINDS 180 NM.

REPEAT CENTER LOCATED 20.0N 113.2W AT 051200Z.

FORECAST VALID ~~060000Z~~ 22.5N 114.4W.

MAX SUSTAINED WINDS 75 KT WITH GUSTS TO 85 KT.

RADIUS OF 50 KT WINDS 90 NM.

FORECAST VALID 061200Z 25.4W 114.6W.

MAX SUSTAINED WINDS 75 KT WITH GUSTS TO 85 KT.

RAD OF 50 KT WINDS 80 NM.

NEXT ADVISORY AT 052100Z.

NNNN

memorandum

DATE:

REPLY TO
ATTN OF:

SUBJECT:

1 CALL LATE PM
DAVID KING

FTS

792 2507

JPL PASADENA

TO:

1977 Heather

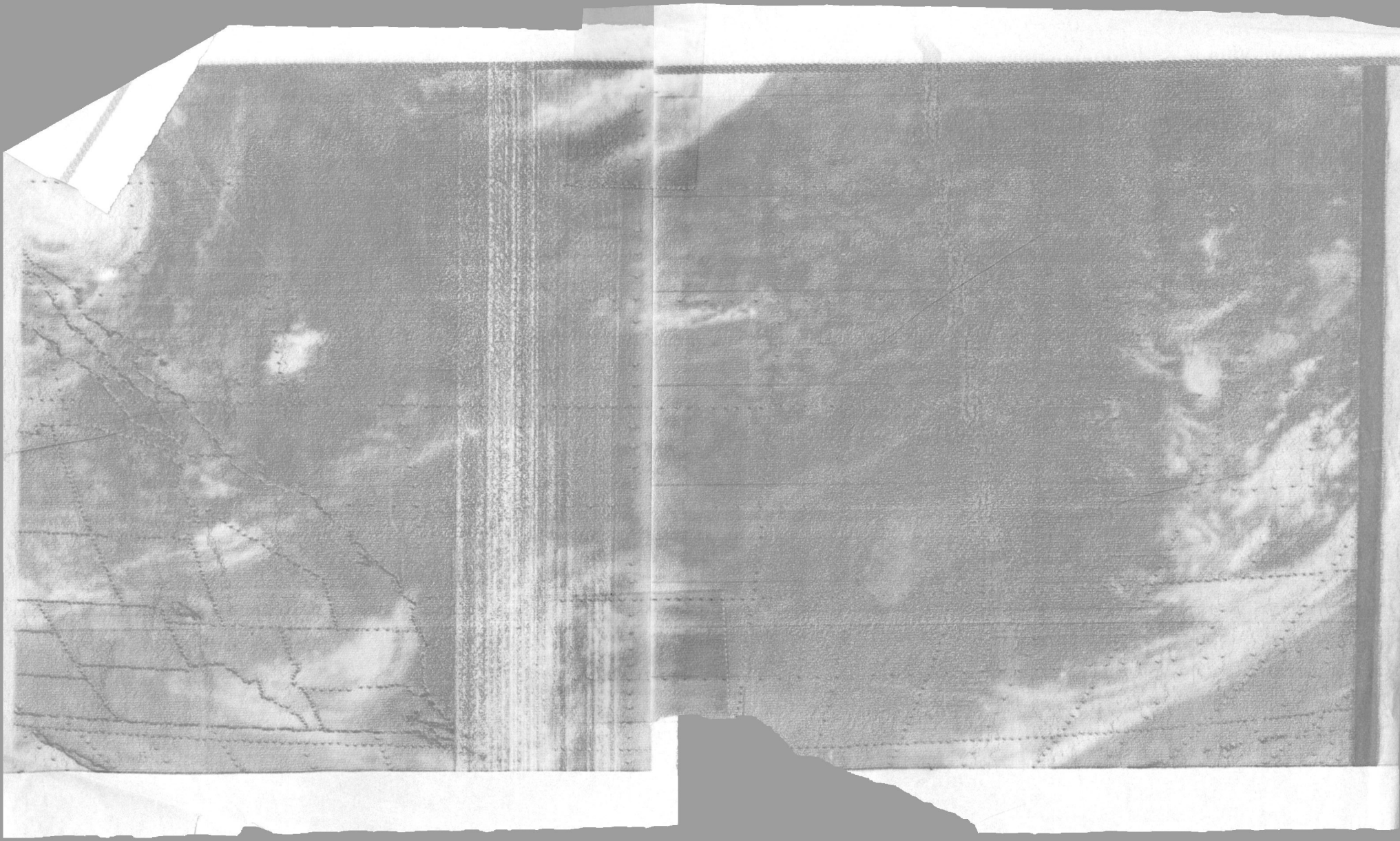
HEATHER OCT 11, 1977

FLT PATH RELATIVE TO EYE OF
STORM,

Buy U.S. Savings Bonds Regularly on the Payroll Savings Plan

☆ U. S. GPO: 1977-0-241-537/3224

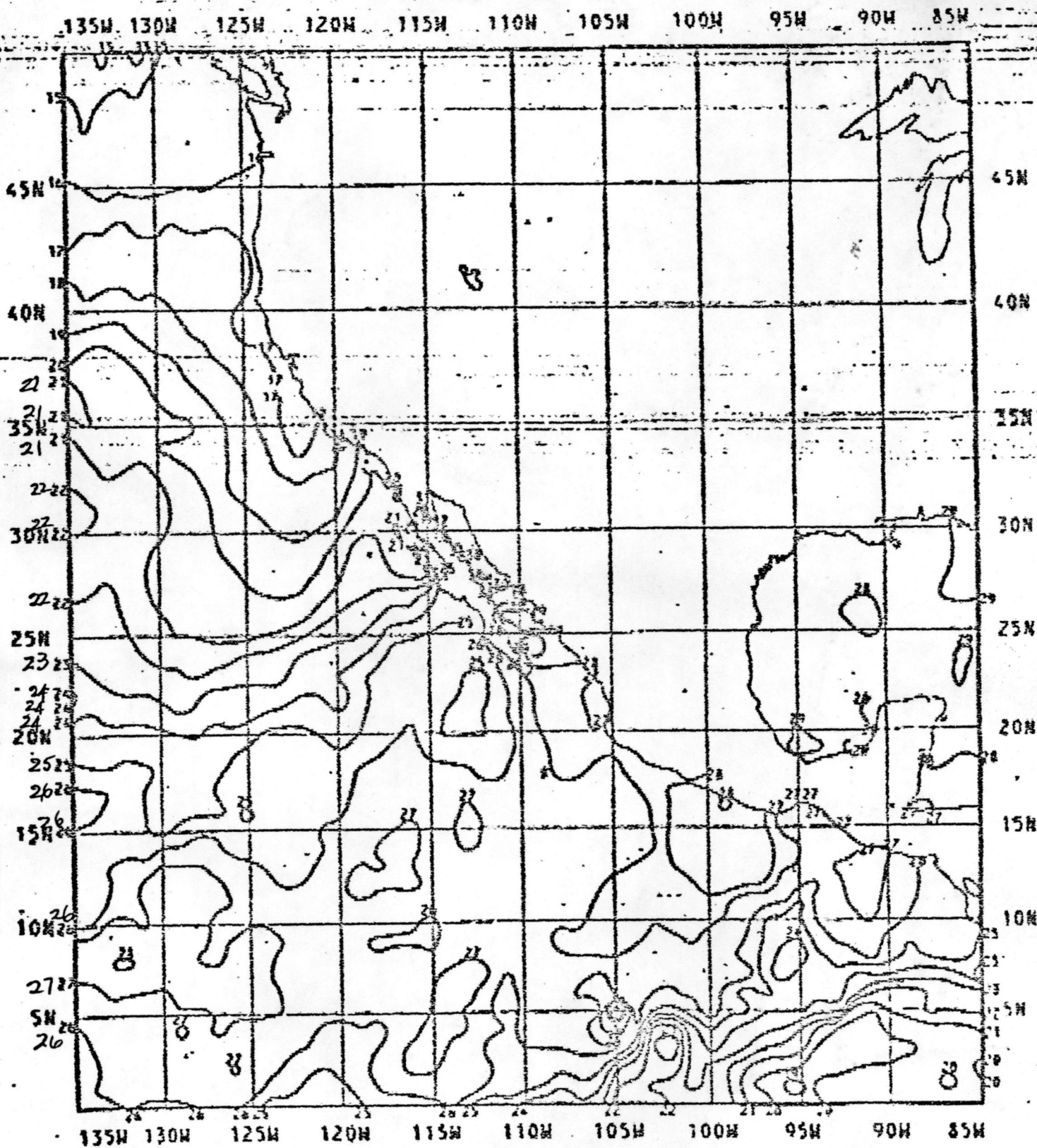
OPTIONAL FORM NO. 10
(REV. 7-76)
GSA FPMR (41 CFR) 101-11.6
5010-111





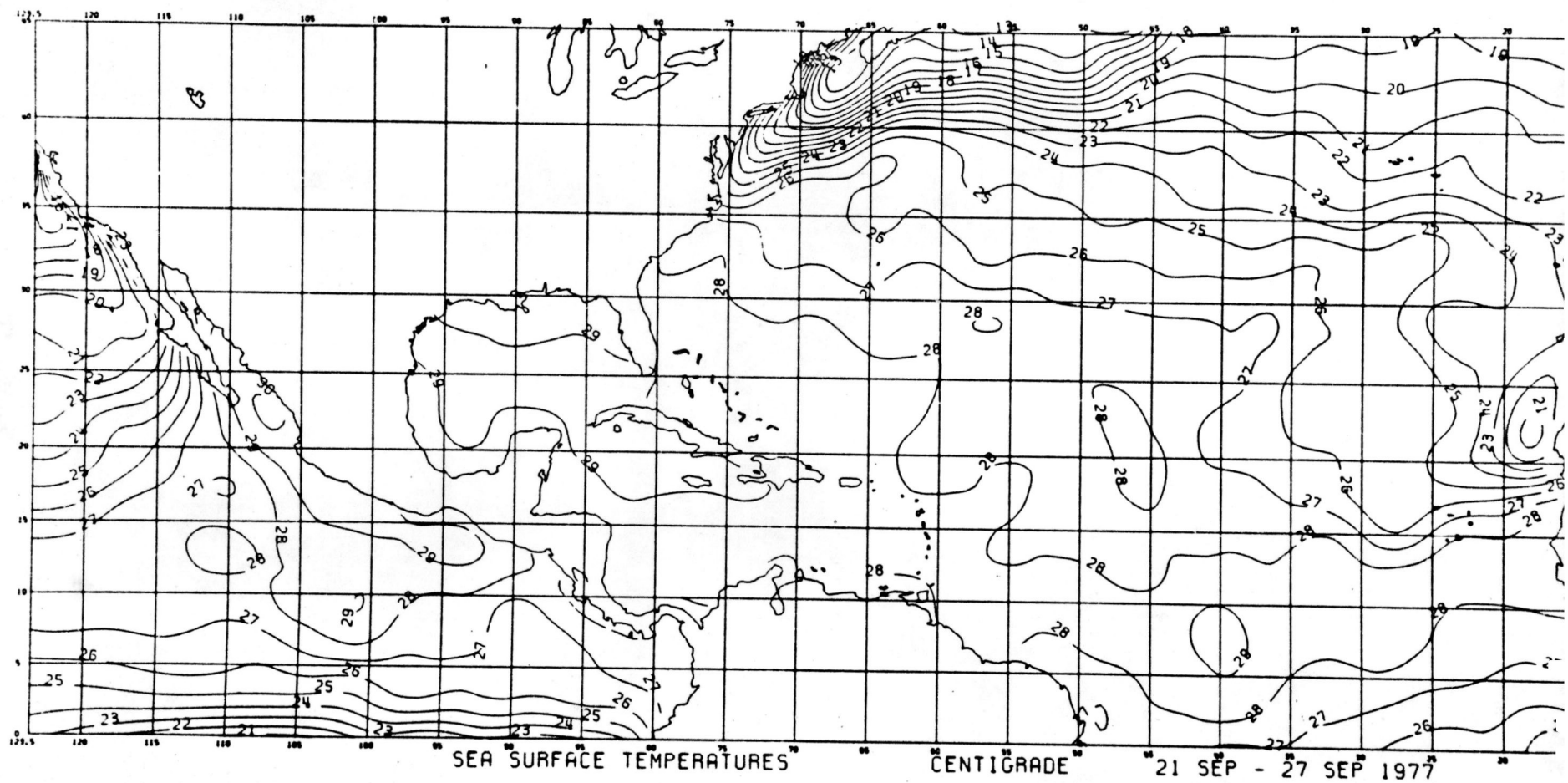
10/5/77 ^{ALC}
0047 Z ^{PICTURE} on 10/06/77 771005N1

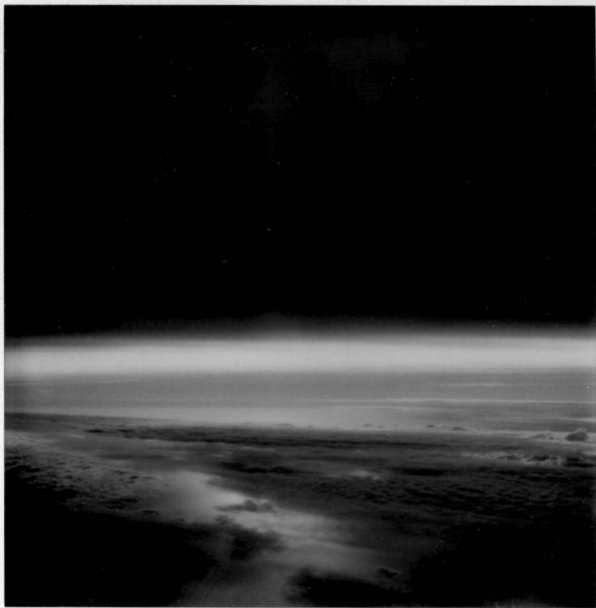
GOSSTCOMP SEA SURFACE TEMPERATURE



MN135W

9/27/77





10/5/72 ^{ALC} PICTURE 771005N1
0047 Z on 10/06/77

