On-board Lead Project Scientist Checklist

DATE 841011I2 AIRCRAFT 43RF FLT Josephine

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	Marks	Gust Probe	—
Cloud Physics	—	Omegasonde	BURPEE/GOLDENBERG
AXBT/ AXCP	—	Sys Eng	GOLDSTEIN
Hot Film	—	Data Tech	
Radar	DORST	El Tech	SCHRICKER
Flt Dir/Met	DARBY	Other	

GUNNOE, BARNHILL, MANDELKERN, RICCI, ABLING

Take Off 194329Z Location MIA Landing 0450Z Location MIA

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
10/11	12Z	30	72.5	974
"	17Z	30.5	71.9	973
10/12 Forecast	00Z	32.0	71.8	
10/12 FIX	0230Z	31.5	71.7	970

C. Mission Briefing

ODW see map

D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	✓	✓	✓	✓
Radar	✓	✓	✓	✓
Cloud Physics	—	—	—	—
Data Sys	✓	✓	✓	✓
Omegasondes	✓	✓ 36 bad of 27	✓	✓
AXBT/AXCP	—	—	—	—
Gust Probe	—	—	—	—
Hot Film	—	—	—	—
Photography	5 sec	✓	✓	—

E. Proposed and Actual Flight Patterns (Identify by number and type - give reason for modification)

See map

19841011I2-LPS

E.1 Lead Project Scientist (On-Board)

The on-board lead project scientists are responsible for carrying out the scientific mission of their assigned aircraft. (Check off and initial when completed.)

E.1.1 Preflight

_____ 1. Participate in general mission briefing.

_____ 2. Determine specific mission and flight requirements for assigned aircraft.

_____ 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with OAO flight director/meteorologist and CARCAH, unless briefed otherwise by field program director.

_____ 4. Contact HRD members of crew to:

a. Assure availability for mission.

b. Arrange ground transportation schedule when deployed.

c. Determine equipment status.

_____ 5. Meet with OAO flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.

_____ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center.

E.1.2 In-Flight

_____ 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).

_____ 2. Confirm camera mode of operation.

_____ 3. Confirm data recording rate.

_____ 4. Complete form E-1.

E.1.3 Postflight

_____ 1. Debrief scientific crew.

_____ 2. Report landing time, aircraft, crew and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HRD operations center.

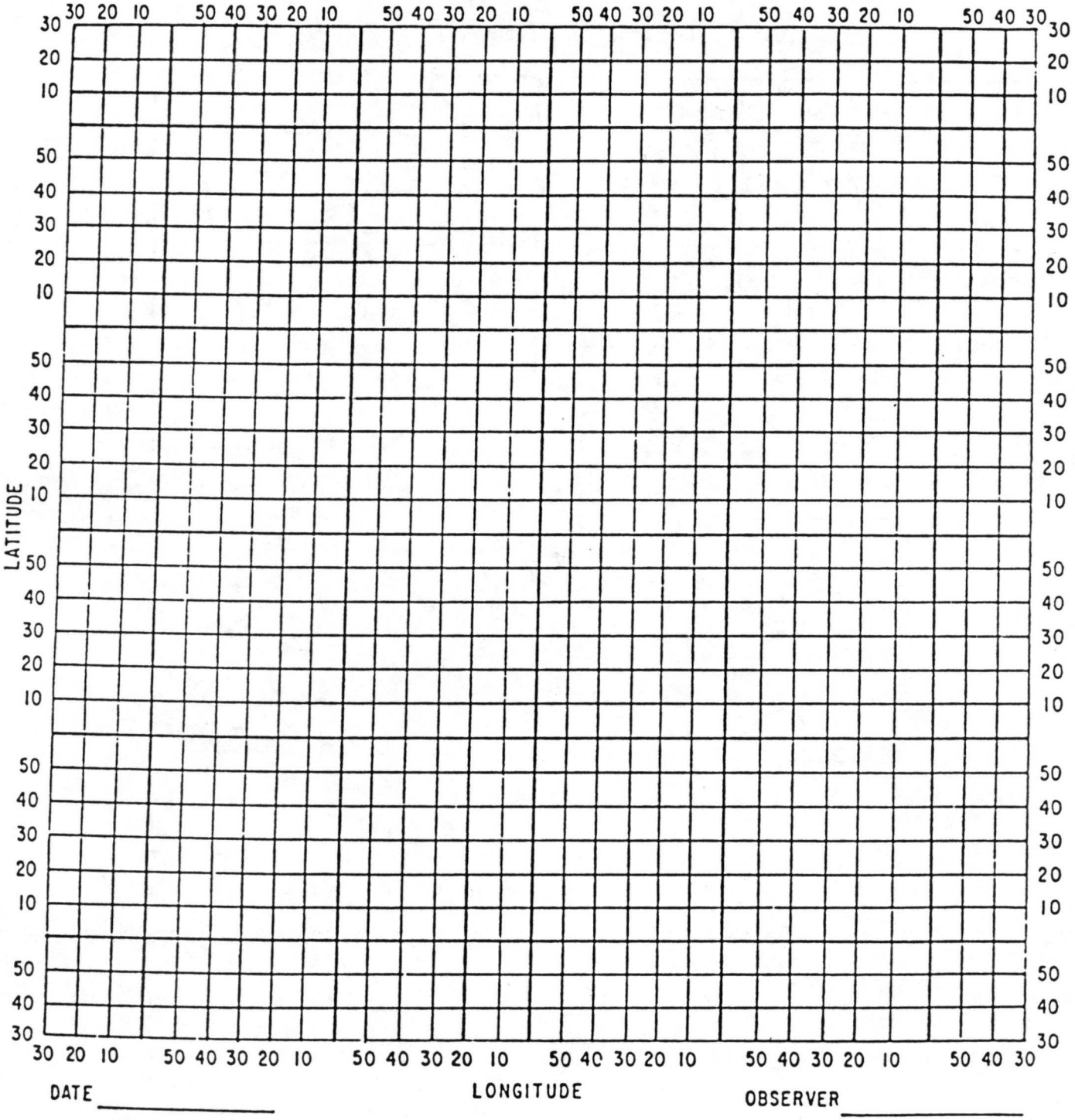
_____ 3. Gather completed forms for mission and turn in at the operations center.

_____ 4. Determine next mission status, if any, and brief crews as necessary.

_____ 5. Notify operations center as to where you can be contacted and arrange for any further coordination required.

HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: Label full degrees according to location of flight area

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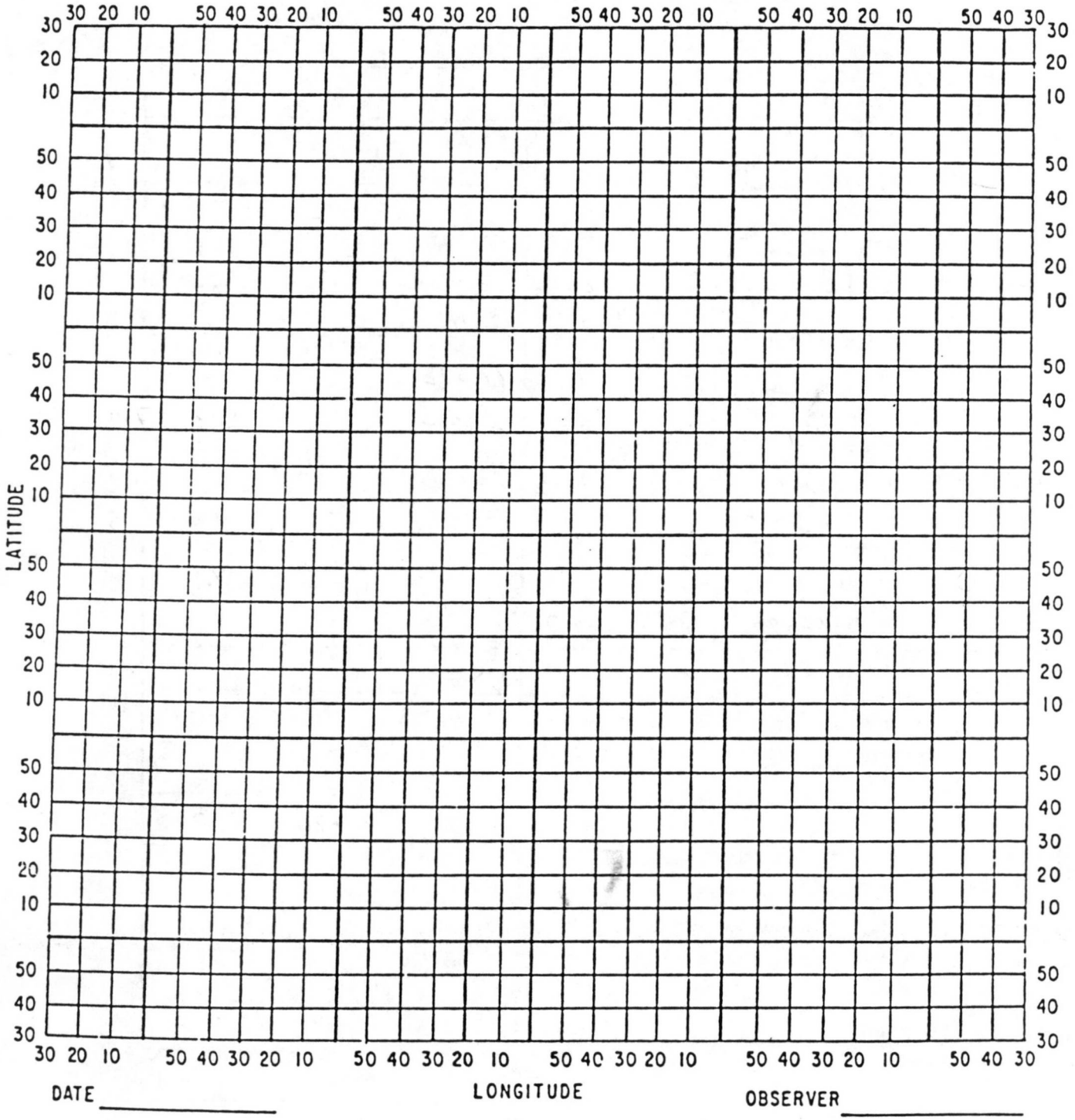

NOTE: Label full degrees according to location of flight area

Form E-1
Page 5 of 5

(1)

DATE 841011I2 FLIGHT Josephine LPS MARKS

Lead Project Scientist Event Log

winds in knots

EVENT	TIME*	POSITION	COMMENTS**			
T.O.	1943/29	25.7 80.3 MIA	[illegible]			
#1	2043/25	27.5 76.5	280/24	-3.5 -15.9	526.7	5450
#2	2101/00	26.2 75.7	274/20	-2.8 -16.4	527.2	5451
#3	2119/39	25.0 74.9	290/13	-2.6 -16.2	527.6	5450 climb to 512mb
#4	2133/02	25.5 73.9	280/19	-5.3 -17.9	503.5	5818
#5	2145/40	25.9 72.9	280/25	-5.3 -18.0	503.7	5813
#6	2204/15	24.5 72.5	290/13	-7.8 -20.6	483.7	6110
#7	2224/30	23.0 71.9	280/16	-7.7 -20.7	484.0	6136
#8	2240/32	23.8 70.8	270/12	-7.4 -20.5	484.1	6132
#9	2258/00	24.4 69.5	260/18	-8.1 -21.0	484.2	6135
#10	2314/05	23.1 69.2	250/6	-8.9 -16.5	484.2	6140
#11	2329/29	22.1 68.9	220/7	-10.8 -22.0	463.8	6470
#12	2348/50	22.5 67.4	265/2	-10.8 -21.7	463.8	6472 Streamer
#13	2351	22.6 67.1	335/3	-10.4 -21.7	464.0	6471
#14	0005/30	23.1 66.0	252/4	-9.6 -21.7	464.1	6477
#15	0022/00	24.3 66.5	252/12	-10.2 -21.6	464.2	6474 Lost Signal
#16	0038/00	25.5 67.0	227/23	-13.1 -20.3	443.5	6816
#17	0055/06	26.8 66.0	245/22	-12.8 -22.9	443.6	6811
[redacted]						
#18	0113/00	28.0 65.0	250/21	-12.8 -23.4	443.8	6809

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

(2)

Form E-1
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DATE 841011I2 FLIGHT Josephine LPS MARKS

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	(kts) COMMENTS**			
#~~18~~	0132/13	28.03 66.71	240/20	-12.6 -22.6	443.5 6802	N.G. BAD SONDE
# 19	0137/28	28.05 67.16	235/22	-13.1 -22.8	443.6 6807	
# 20	0154/00	28.05 68.59	240/17.0	-14.7 -24.0	425.8 7104	
# 21	0215/00	28.04 70.30	254/20.8	-16.8 -26.1	408.4 7414	
# 22	0235/55	28.04 71.99	263/38	-17.6 -26.5	408.5 7399	temp. lost below 750 mb
# 23	0255/00	29.0 73.2	259/42	-16.9 -26.3	408.5	7381 temp. lost below 750 mb
# 24	0315/25	30.0 74.6	280/36	-18.5 -27.0	408.5	7376 turn
# 25	0343/25	30.0 77.0	255/28	-20.1 -28.1	408.5	7388 turn
#26	0402/10	28.7 78.0	250/28	-26.5 -28.2	408.6	7396
land.	045022	25.8 80.25				

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

MAP 1566

U. S. DEPARTMENT OF COMMERCE

radar echoes (0230-0315Z)

841010H1

970mb 85kts

0322 Radar fix (0230 ± 3hr AC)

22Z 90-pt

970mb

0230Z RADAR

841011Z

Streamer

ELEVATIONS IN FEET

9000

6000

3000

SCALE 1:7,500,000

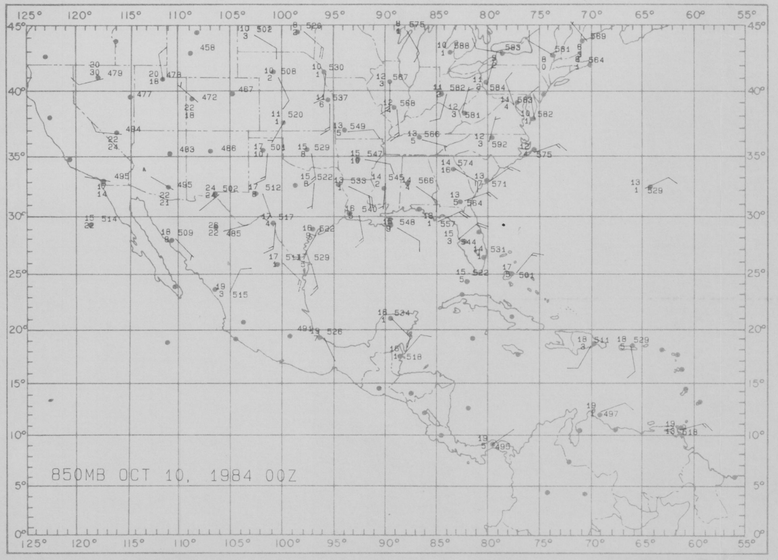
MERCATOR PROJECTION, TRUE TO SCALE AT 22½° N.

SCALE OF STATUTE MILES AT VARIOUS LATITUDES

SCALE OF NAUTICAL MILES AT VARIOUS LATITUDES

USCOMM

MAP 1566 MARCH 1960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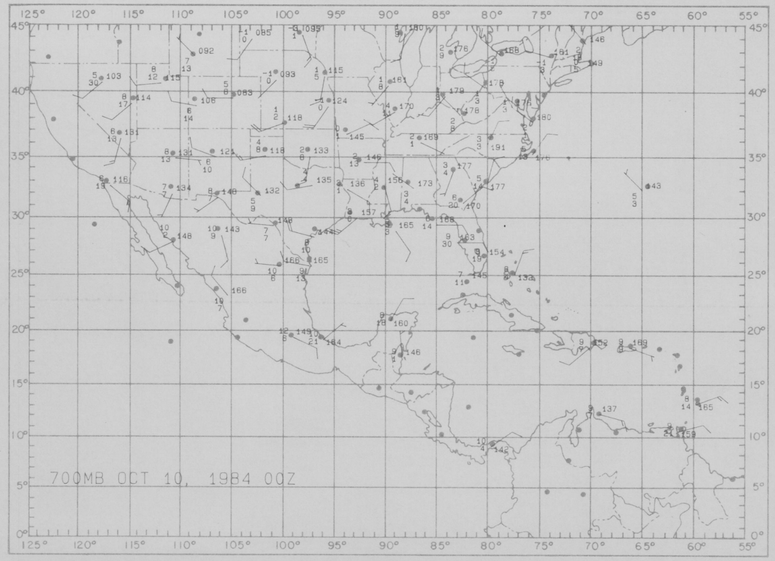
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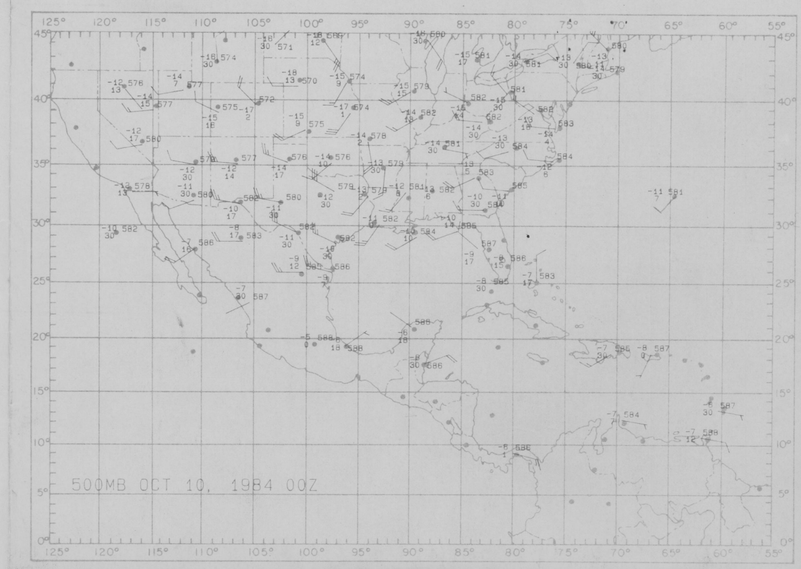
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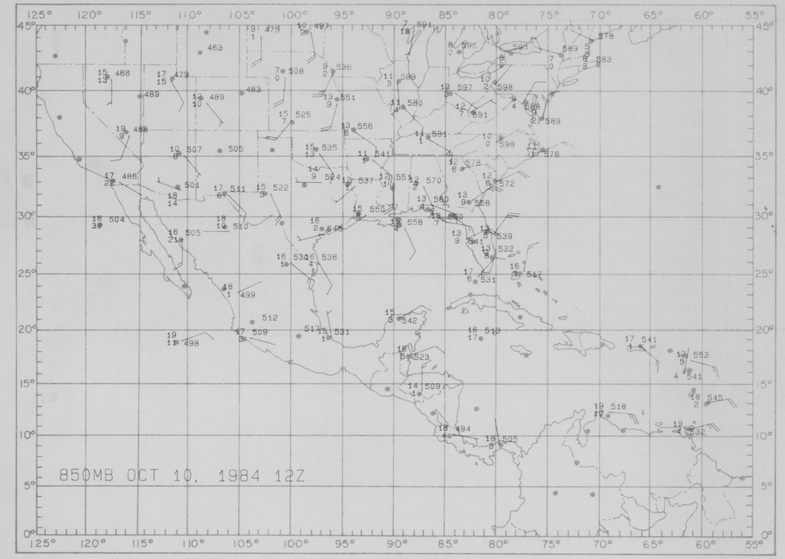
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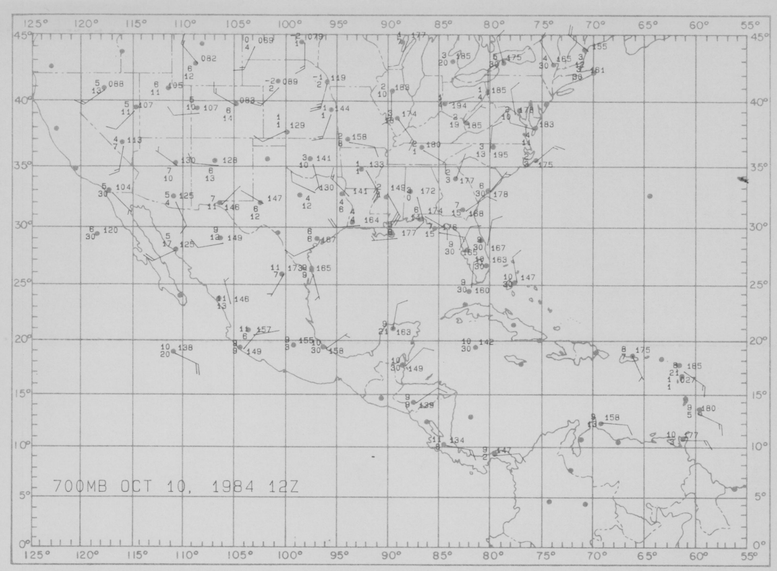
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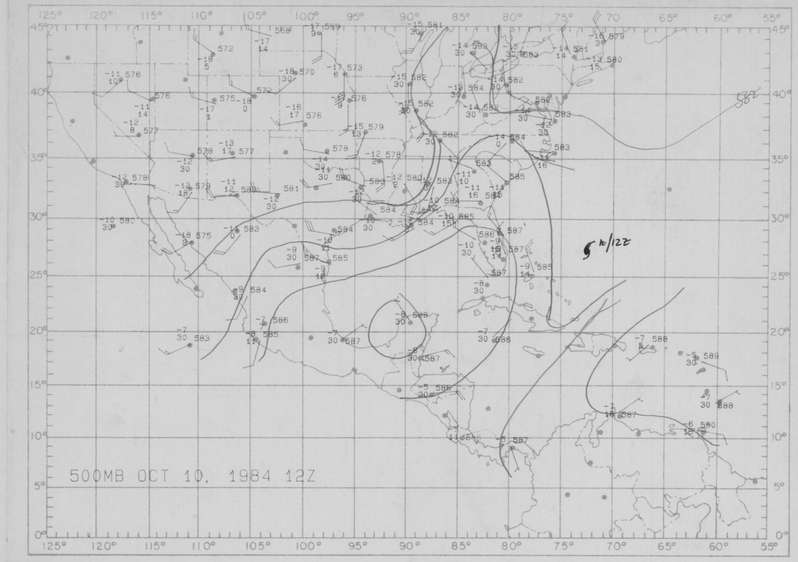
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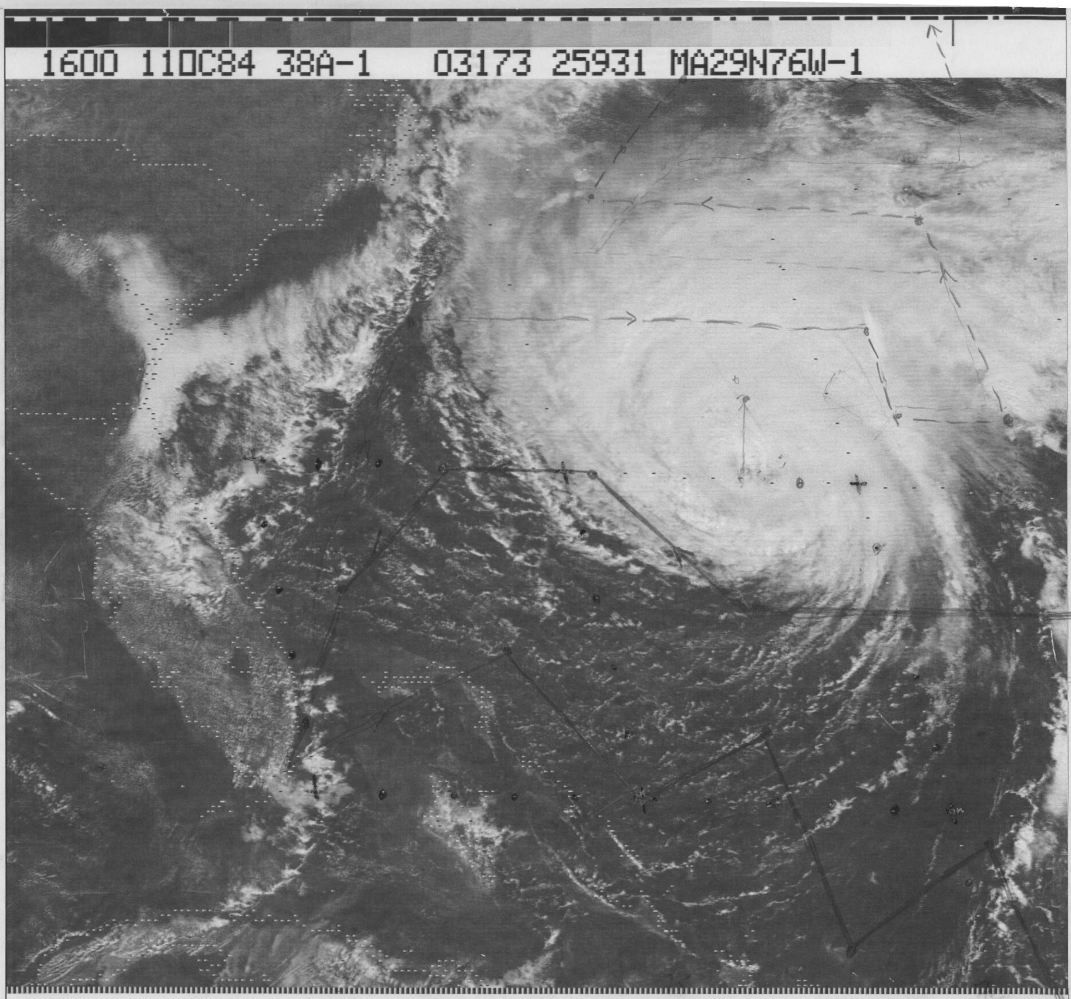
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