

E.1 Lead Project Scientist (On-Board)

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

E.1.1 Preflight

- ✓ 1. Participate in general mission briefing.
- ✓ 2. Determine specific mission and flight pattern(s) for his aircraft.
- N/A 3. Determine operational fix responsibility, if any. Discuss with RFC flight director/meteorologist and CARCAH, unless briefed otherwise by field program director.
- ✓ 4. Contact NHRL members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- ✓ 5. Provide supplementary briefing to specific crew.
- ✓ 6. Report status of aircraft, systems and crews to appropriate NHRL operations center.

E.1.2 In-Flight

- ✓ 1. Confirm from RFC 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 crew.
- _____ 2. Report landing time, aircraft, crew and mission status to NHRL 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.

On-board Lead Project Scientist Checklist

DATE 9/23/82 AIRCRAFT 42RF FLT 820923H1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Willis</u>	Gust Probe	
Cloud Physics	<u>N/A</u>	Omegasonde	<u>WILLOUGHBY, LORD, MARK</u>
AXBT	<u>N/A</u>	Sys Eng	<u>DU CANNON</u>
Hot Film		Data Tech	
Radar	<u>MARKS</u>	EI Tech	<u>DE VIVO</u>
Flt Dir/Met	<u>DAVIS</u>	Other	

Take Off	Location	Landing	Location
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B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>9/23</u>	<u>12Z</u>	<u>22.1N</u>	<u>111.3W</u>	
<u>9/24</u>	<u>12Z</u>	<u>24.5N</u>	<u>124W</u>	

C. Mission Briefing

FLY PATTERN & DROP AS INDICATED

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓	✓	✓	_____
Radar	✓	✓	✓	_____
Cloud Physics	✓ <i>CLOUD PROBE ON</i>	✓	✓	_____
Data Sys	✓	✓	✓	_____
Omegasondes	✓	✓	✓	_____
AXBT	_____	_____	_____	_____
Gust Probe	_____	_____	_____	_____
Hot Film	_____	_____	_____	_____
Photography	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

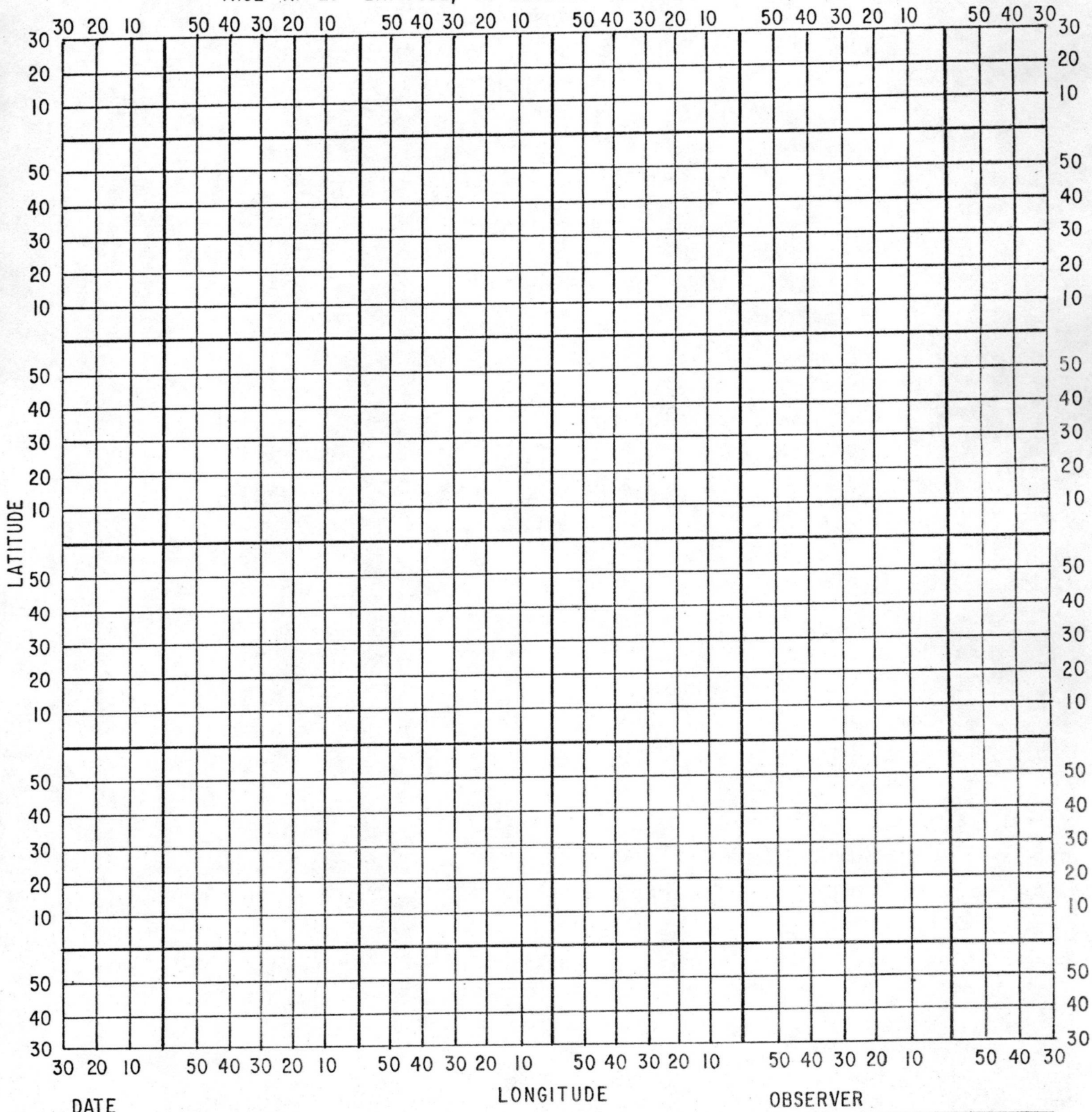
REMARKS

E. Proposed and Actual Flight Patterns

see attached sheet

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

DATE 9/23/82

FLIGHT 820923H1

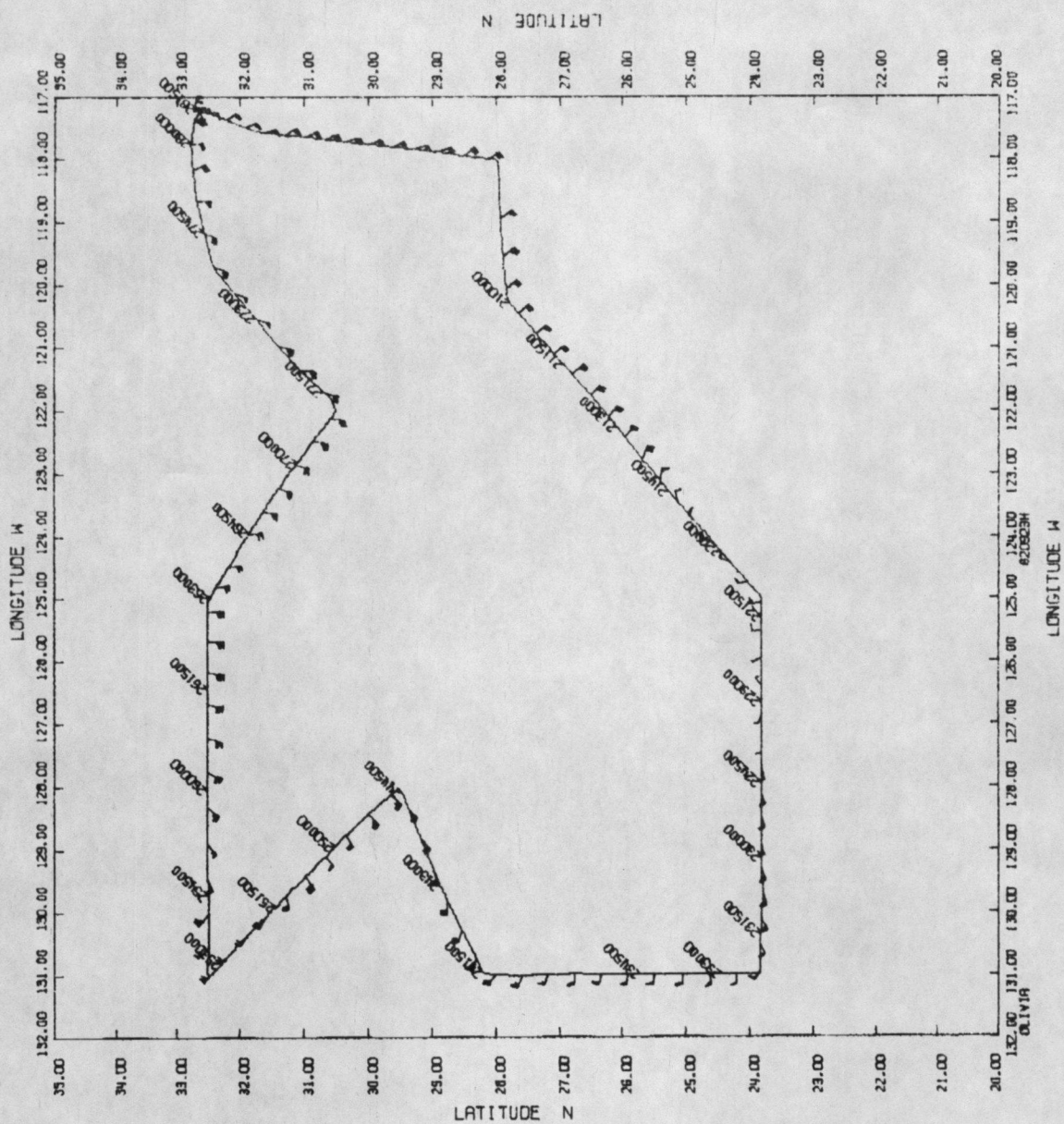
LPS Willis

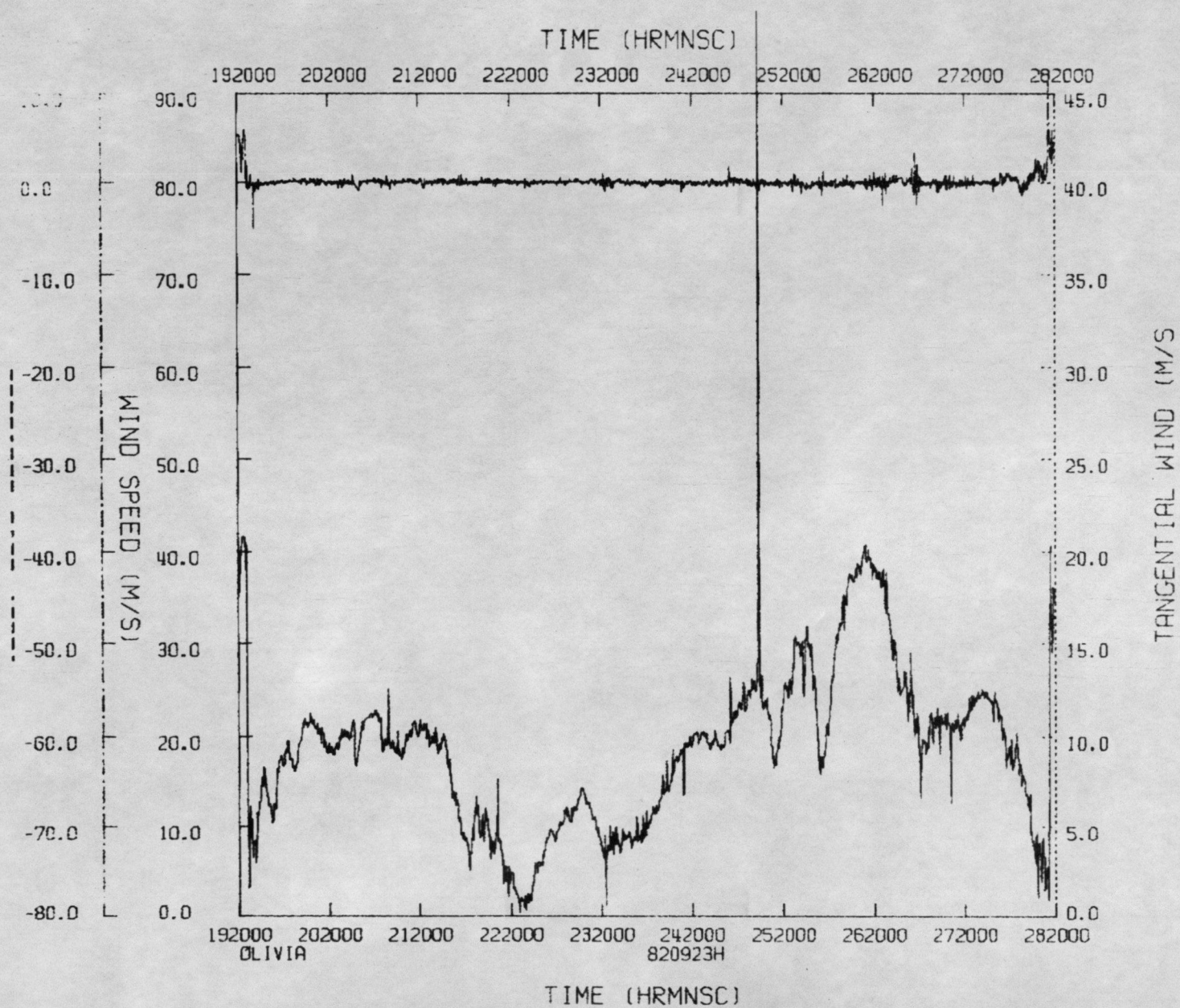
Lead Project Scientist Event Log

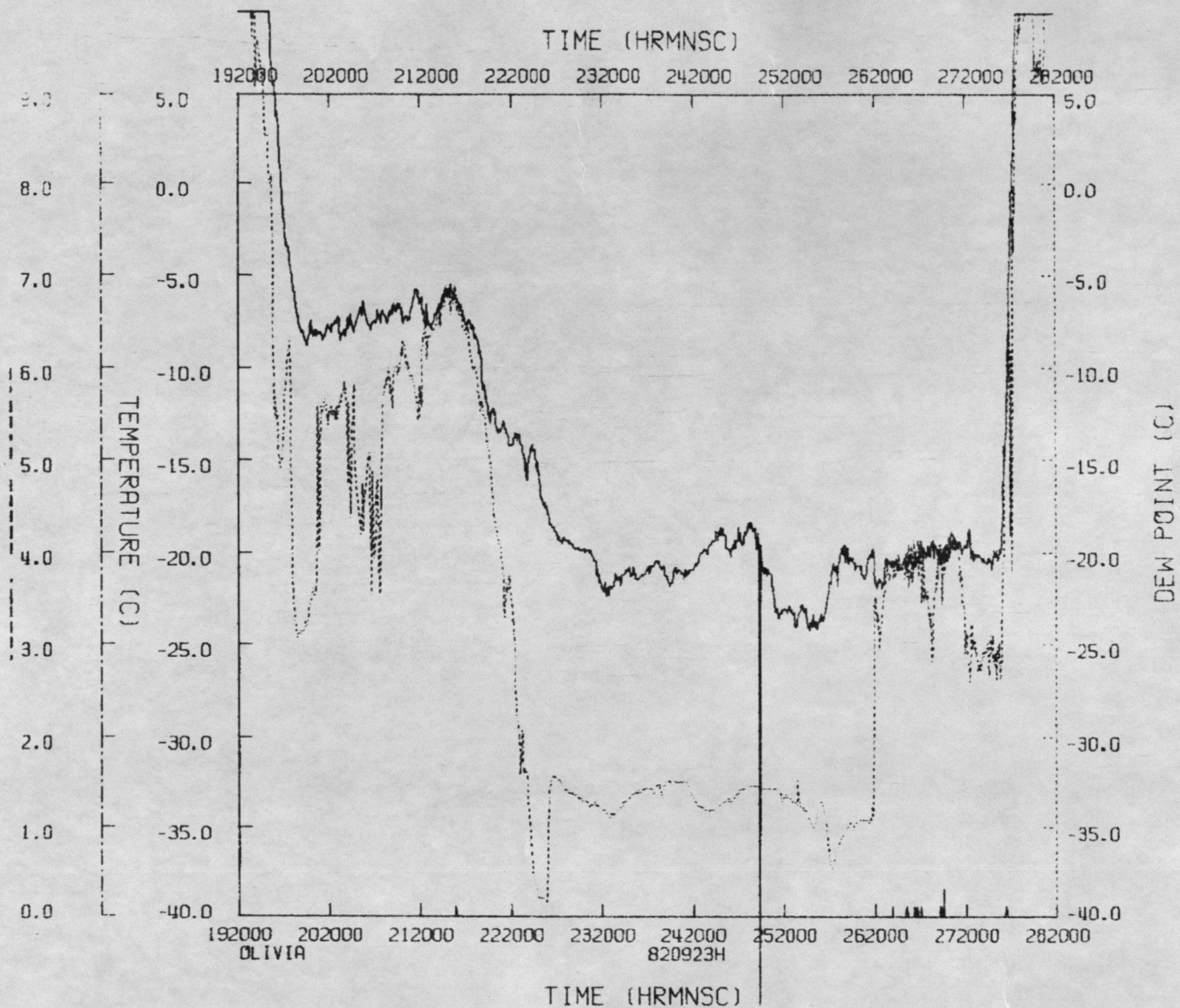
EVENT	TIME*	POSITION	COMMENTS**
T/O	1926/30	32.70 117.21 HI / NAS	WIND EL5 BUILT INTO PATTERN - ADDITIONAL NOT REQUIRED
	1956		✓ ASOL GOOD OK IN MIAMI.
2032/51	2032/51	28.72 117.97	145/18.9 463.2 -8.0 -16.9 # Sc below
Drop #1	2059/50	27.79 120.27	141/20.6 464.9 -7.3/-12.6 # Sc below good hole
Drop #2	2123/57	26.42 121.87	130/20.7 461.9 -8.1/-9.4 # Sc below hole in
Drop #3	2126/40 2148/35	IN AS dash Pilot not a problem 25.07 123.53	030/8.9 448.9 -7.6/-9.0 [no SL] # As dash
#3A	2150/20	29.98 123.64	light cloud # 074/9.0 447.4 -8.0/-8.6 in cloud.
Drop #4	2212/09	23.82 125.06	06.3/7.3 393.5 -13.6/-21.7 # Sc below
Drop #5	2233/50	23.83 127.00	241/2.0 391.1 -14.5/-40.7 # As # Sc below
Drop #6	2258/29	33.83 129.00	250.1/10 359.2 -19.6/-36.3 # Sc below
#7	2323/38	23.93 130.29	246/7.5 357.2 -22.6/-37.7 almost clr below
#8	2340/10	25.32 131.00	255/8.2 357.9 -21.4 -36.4 # clr blw
#9	2358/00	26.83 130.98	269/12.3 358.5 -20.7/-35.8 cur blw
#10	0015/30	28.26 130.90	299/19.3 359.1 -21.5/-35.7 # Sc below
#11	0031/05	28.93 129.45	259/20.2 359.8 -19.9/-37.3 # blw
#12	0046/20	29.59 128.07	221.2/21.3 361.7 -19.7/-36.7 # - # Sc below
NO HINDS #13	0100/45	30.56 128.98	231.1/27.6 361.5 -19.0/-36.2 # Sc BLO
✓ OK #14	0108/53	31.08 129.52	238/23.1 358.6 -21.3/-36.0 # Sc BLO
#15 CORAL	0134/40	32.53 130.87	318.5/32.6 358.5 -23.6/-37.4 # Sc BLO more height
#16	0152/50	32.51 128.83	232/26.7 359.8 -21.1/-40.8 # BLO
MOVED BY AIRWAY #17	0219/48	32.51 116.39	182/40 358.8 -21.1/-38.0 # Sc BLO
BAD #18 X	0229/32	32.50 124.99	169/32 360.8 -20.7 -23.5 IN CLO #
BAD #18B X	0232/06	32.39 124.82	168/30.1 IN CLOUD.
#19	0252/02	31.53 123.40	209.6/18.9 359.5 -22.3/-22.5 JUST OUT OF BAND # Sc BLO DARK BELOW

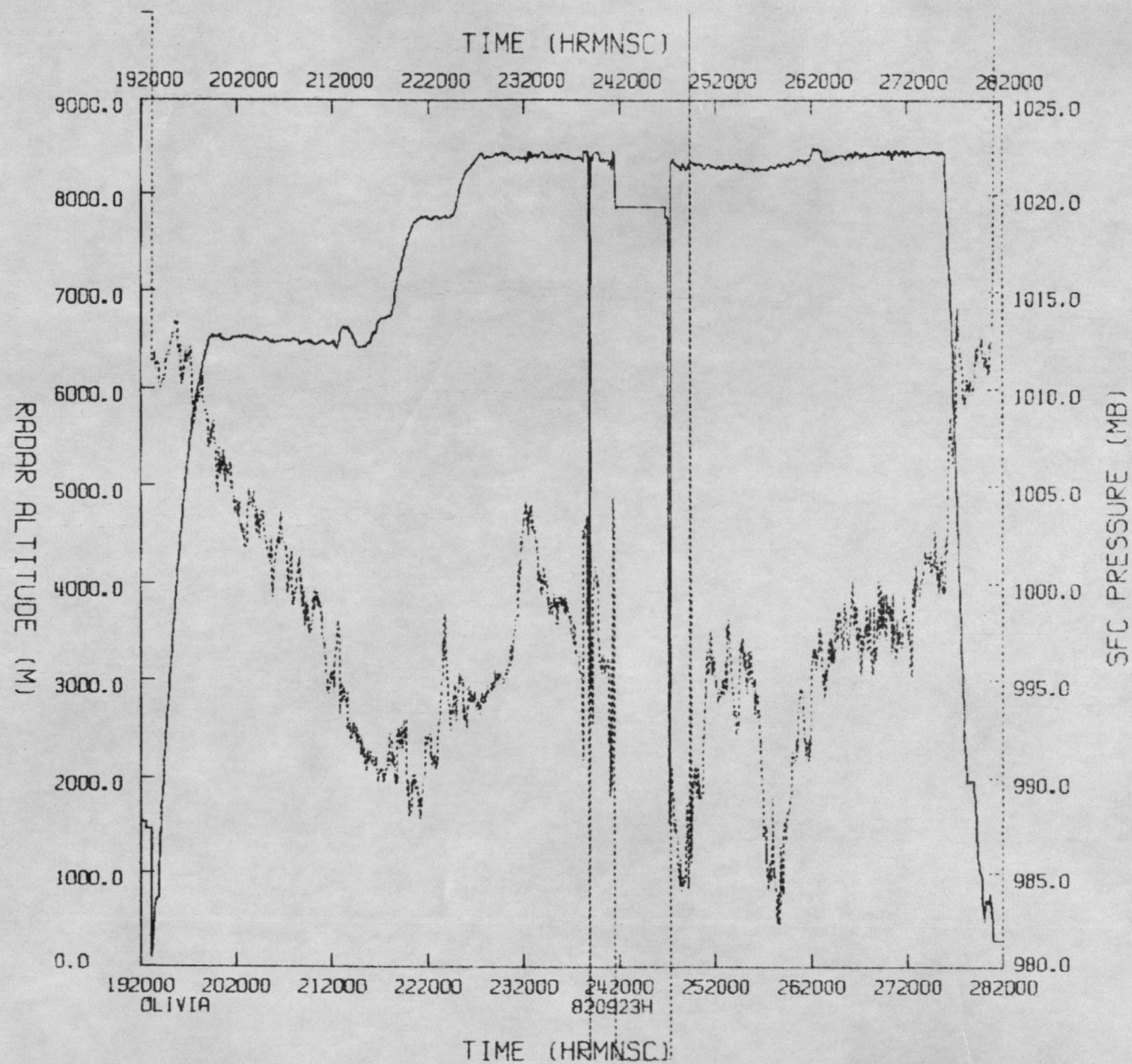
*Log times of all significant altitude changes, turns, and eye fixes

**New altitude, heading, center position, etc.









119M

117M

30N

-08+1071
-14+2021

-08+1071
-14+2022

-08+1069
-14+2023

-08+1066
-14+2024

-08+1073
-14+2025

-08+1070
-14+2026

-08+1070
-14+2027

-09+1064
-13+2028

-09+1060
-13+2029

-09+1065
-13+2030

-09+1064
-12+2031

-09+1065
-14+2032

-08+1061
-18+2034

-09+1057
-17+2035

29N

28N

SCALE 1/1000000
TRUE AT 22.5M

NATIONAL HURRICANE CENTER, MIAMI, FLA.

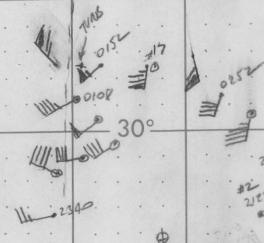
ASDL 9/23/82

NOAA2 WXXW

OLIVIA

40°

820923HI ONVIO
Depuindrade



140°

130°

120°

110°

90°

70°

60°

10°

10°

0°

0°

Date

Date

Time

WMO REGIONAL CENTER
MIAMI
MARINE CHART

SCALE 1:20,000,000
MERCATOR PROJECTION TRUE AT 22°N AND S

