Form E-1
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On-board Lead Project Scientist Checklist

7/26/84

DATE 840726 II AIRCRAFT 43 FLT 840726 II

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	Marks	Gust Probe	—
Cloud Physics	—	Omegasonde	—
AXBT	—	Sys Eng	Goldstein
Hot Film	—	Data Tech	Jarvi
Radar	Dodge	El Tech	—
Flt Dir/Met	Dailey	Other	—

Take Off 1715Z Location San Juan Landing Location Miami

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP	
7/26	15Z	15.1	67.5	1007	WNW 20 kts
1	1714Z	15.5	68.15	1007	
"	1830Z	15.62	69.28	1006	6000'
"	2010	15.66	69.80	1007	1500'

C. Mission Briefing

Fly Doppler in developing Tropical storm

19840726IL-LPS

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.

_____ 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with RFC 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 RFC flight crew 90 minutes before takeoff, provide copies of flight plans and give a formal briefing to the flight director, navigator, and pilots.

_____ 6. Report status of aircraft, systems and crews to appropriate HRD 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 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.

D. Equipment Status

Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	✓	✓	✓	
Radar	✓	✓ AFC went down malfunction	✓	
Cloud Physics	—	—	—	—
Data Sys	✓	✓	✓	
Omegasondes	—	—	—	
AXBT	—	—	—	
Gust Probe	—	—	—	
Hot Film	—	—	—	
Photography	—	—	—	

REMARKS

1814 - data system went down

1815 - " " back

1815 - revised flight plan from proposed flight plan

1857Z - AFC on LF radar crapped out went to MFC

2010 data system went down while trying to locate center of circulation.

4 Doppler tapes / 5 radar tapes

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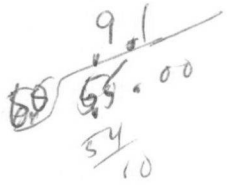
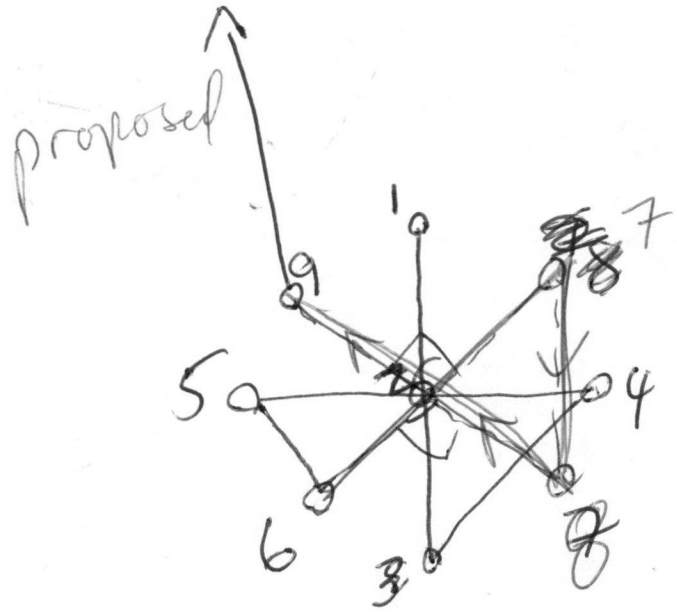
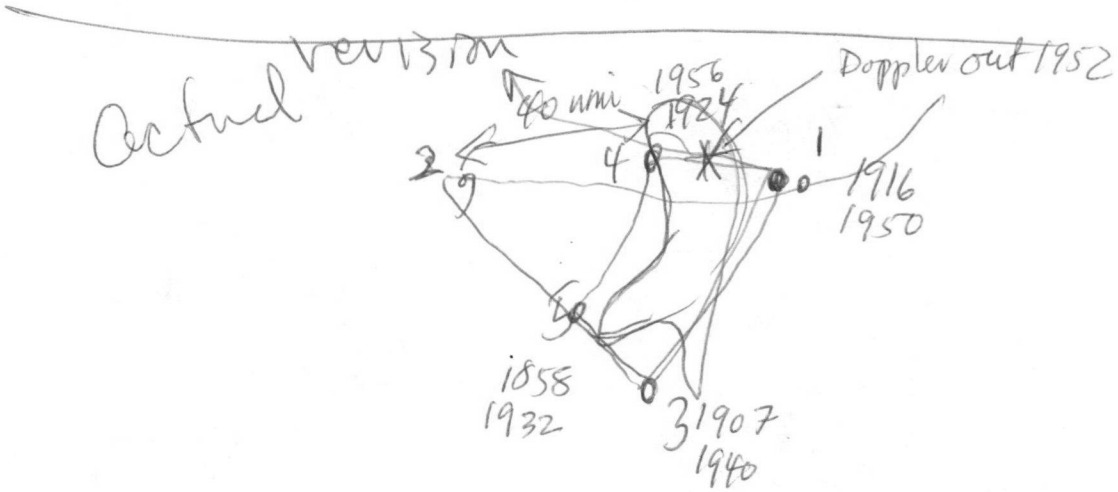
E. Proposed and Actual Flight Patterns





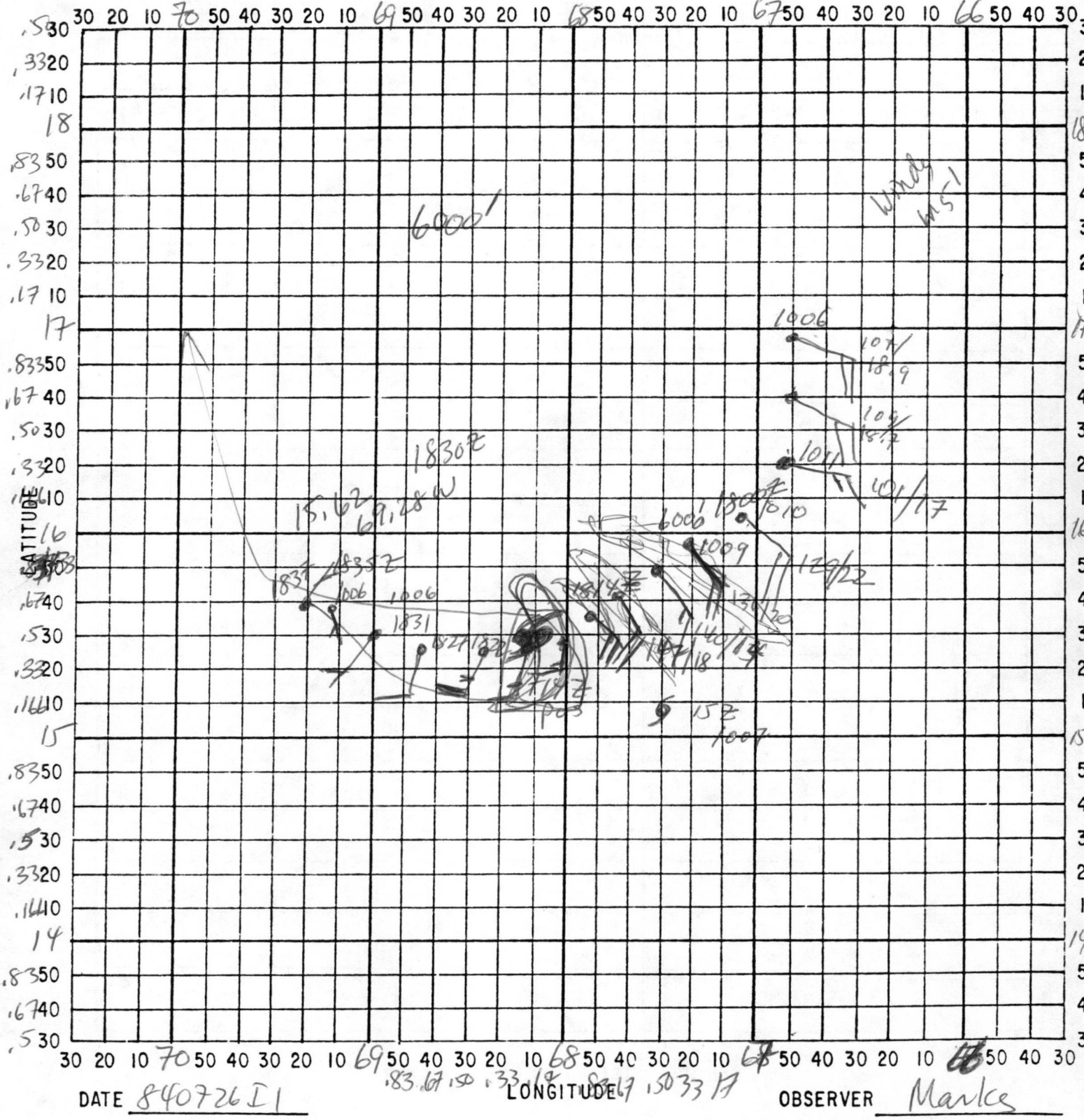
15°55'
69°45'W



840726I (1)

HURRICANE RECCO PLOTTING CHART

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



DATE 840726 I 1 LONGITUDE .83.67.50 .33.17 .83.67.50.33.17 OBSERVER Marks

NOTE: Label full degrees according to location of flight area

(2)

DATE 840726I1 FLIGHT _____ LPS Marks

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**

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

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(1)

DATE 840726I1 FLIGHT 43 LPS Marks

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
1	1814	15.47 67.88	Start Doppler 1800 Z 6000' 1714Z 15.5N 68.15W
2	1837 1562	69.28	1814 system Stopped 1815 back
~~3~~	1858		
~~4~~ 3	1907		revised plan wind Calibration
~~4~~ 1	1916	15.57 68.09	track 240°
~~4~~ 4	1924	15.38 68.58	track 140° AFC on LF cropped out
~~5~~ 5	1932	14.96 N 68.44W	outside turn
~~1~~ 3	1940	15.06N 67.99W	heading 380°
~~1~~ 1	1950	15.59N 68.41W	heand 225°
~~2~~ 4	1956		195230 Doppler
~~2~~ 2	2010	15.67N 69.60W	tape ended in band
~~2~~			
			2010 data system
			Crash.

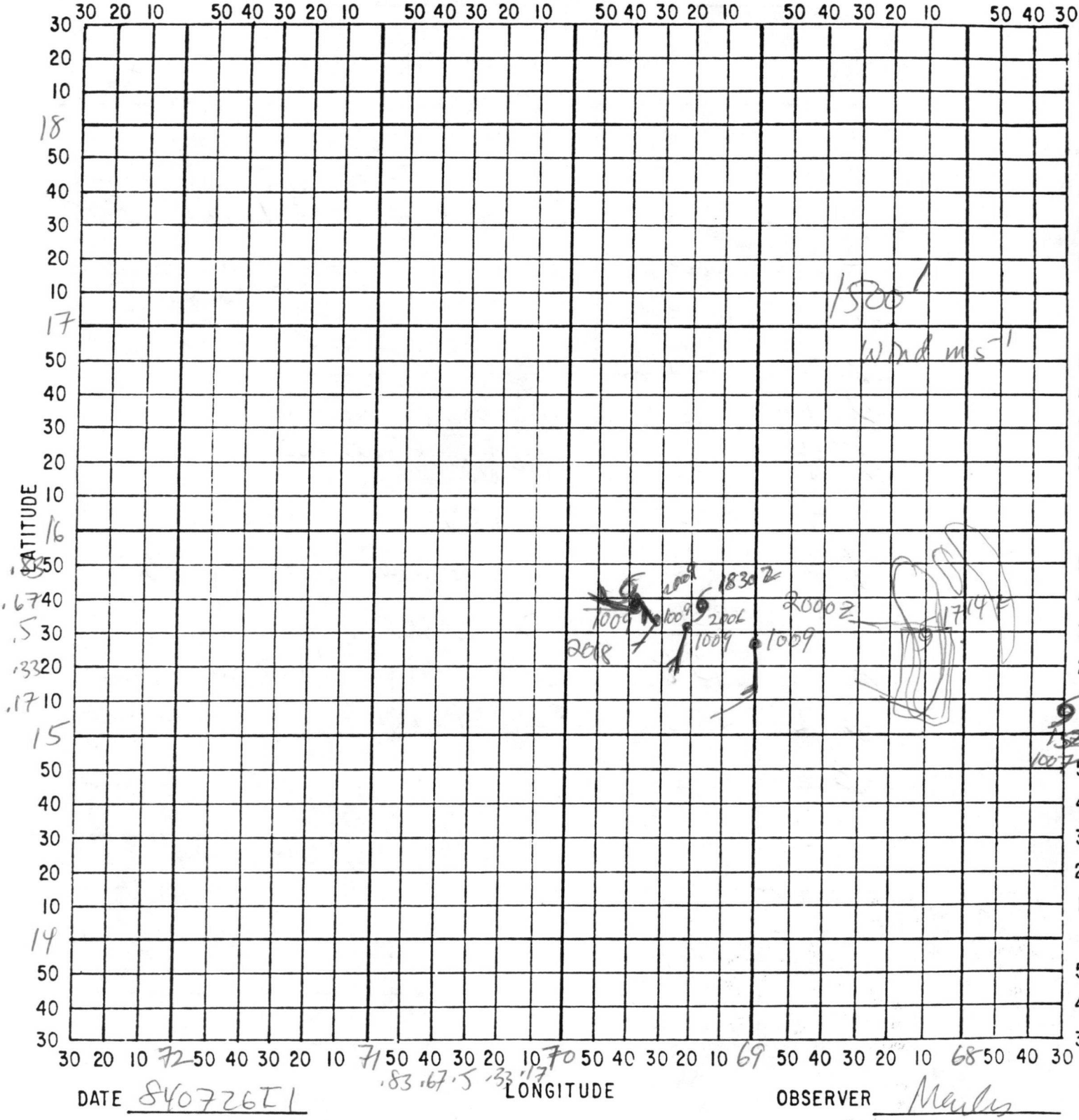
*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

840726I1

(2)

HURRICANE RECCO PLOTTING CHART

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



DATE 840726I1

OBSERVER Marks

NOTE: Label full degrees according to location of flight area

16.666
6 | 1040
6
40
30

33 16.6 I
830

114/17
120/12

15Z
15.6 N
68.0 W

840726 I 1

16Z 15.1 N
Doppler tape ended
67.5 W