

Appendix J

Operational Checklists

19790830HI-LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 790830HIAIRCRAFT 42RFFLT 1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>JORGENSEN</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>Gross</u>	Omega Sonde	<u>—</u>
AXBT	<u>—</u>	Sys Eng	<u>—</u>
Hot Film	<u>—</u>	Data Tech	<u>Brunson</u>
Radar	<u>Stewart/FIORINO</u>	El Tech	<u>Sims/CONNORS</u>
Flt DIR/MET	<u>DAVIS</u>	Other	<u>—</u>

Time Off 1240 Z Location San Juan Time On 2030 Location San Juan

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
<u>8/30</u>	<u>07Z</u>	<u>16.3</u>	<u>64.7</u> 932	<u>8/30</u>	<u>1320Z</u>	<u>16.41</u>	<u>65.41</u>	<u>—</u>
<u>8/30</u>	<u>10Z</u>	<u>16.4</u>	<u>65.2</u> 928	<u>—</u>	<u>1454</u>	<u>16.45</u>	<u>65.45</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>1652</u>	<u>16.33</u>	<u>66.03</u>	<u>—</u>
<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>—</u>	<u>1738</u>	<u>16.58</u>	<u>66.18</u>	<u>—</u>

C. Mission Briefing

Storm south of Puerto Rico. Responsible for 15, 18 and 21Z
fixes. Will fly race track pattern with ~80 n.mi legs.

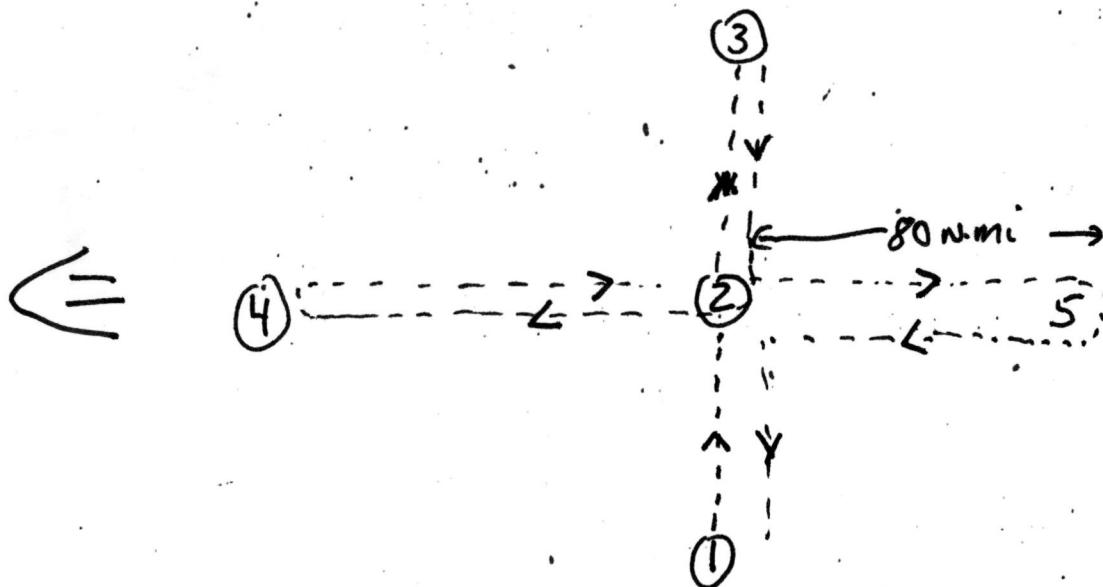
D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	Up	Down after 8 th penetration	Down	Yes
Radar	Up	Down after 2 ^d penetration	Down	Yes
Cloud Physics	Up	NO precip probe tape drive down	Down	Yes
Data Sys	Up	Down after 8 th penetration	Up	Yes
Omega Sondes	-			
AXBT	-			
Gust Probe	-			
Hot Film	-			
Photography	Up			

REMARKS After 1st penetration decided to go from 1500 ft to 5000 ft (we were at pt. ① of hurricane flt pattern 2). Radar recording out after 2^d penetration (~1330 Z). Only polaroids till 8th penetration when displays went out. No Kwoollenburg precip data (diode stuck on) Cloud physics recording crashed at ~1700. Foil impactor down at ~1800 Z.

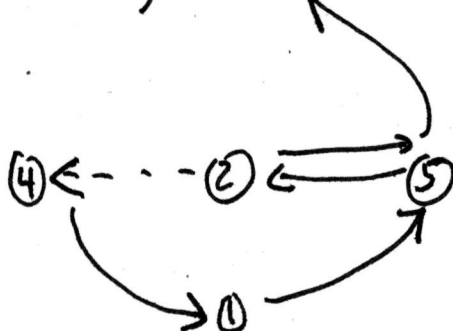
E. Proposed Flight Patterns

Flight pattern II of hurricane ops plan. will try at 1500 ft if not too turbulent, or 5,000 ft. will fly across storm first to get to pt. (1) and get a good fix on storm center

F. Actual Flight Patterns

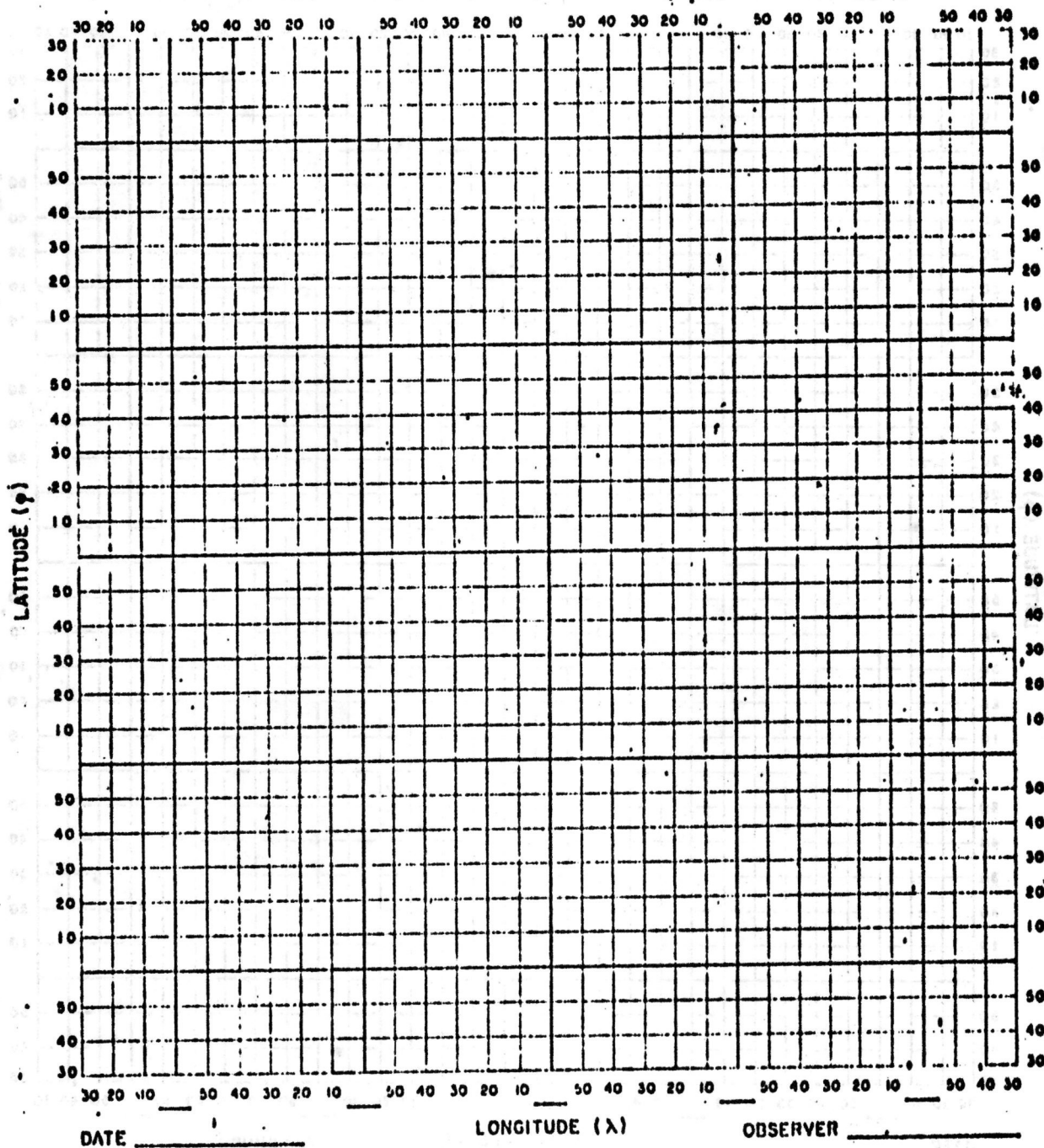
Crossed storm at 1500 ft on way to pt. (1). Went to 5,000 ft ~1344 Z. Completed entire pattern at 5,000 ft at 1714 Z.

Began second pattern at 1715 Z, went from 1-2-3-2-4. On the southbound penetration (from (3) to (2)) the data system went down. After getting to pt (4) it was decided to abandon the flight pattern go to pt (5), make 1 more penetration to get 212 fix exit the same way and go home



HURRICANE RECCO PLOTTING CHART

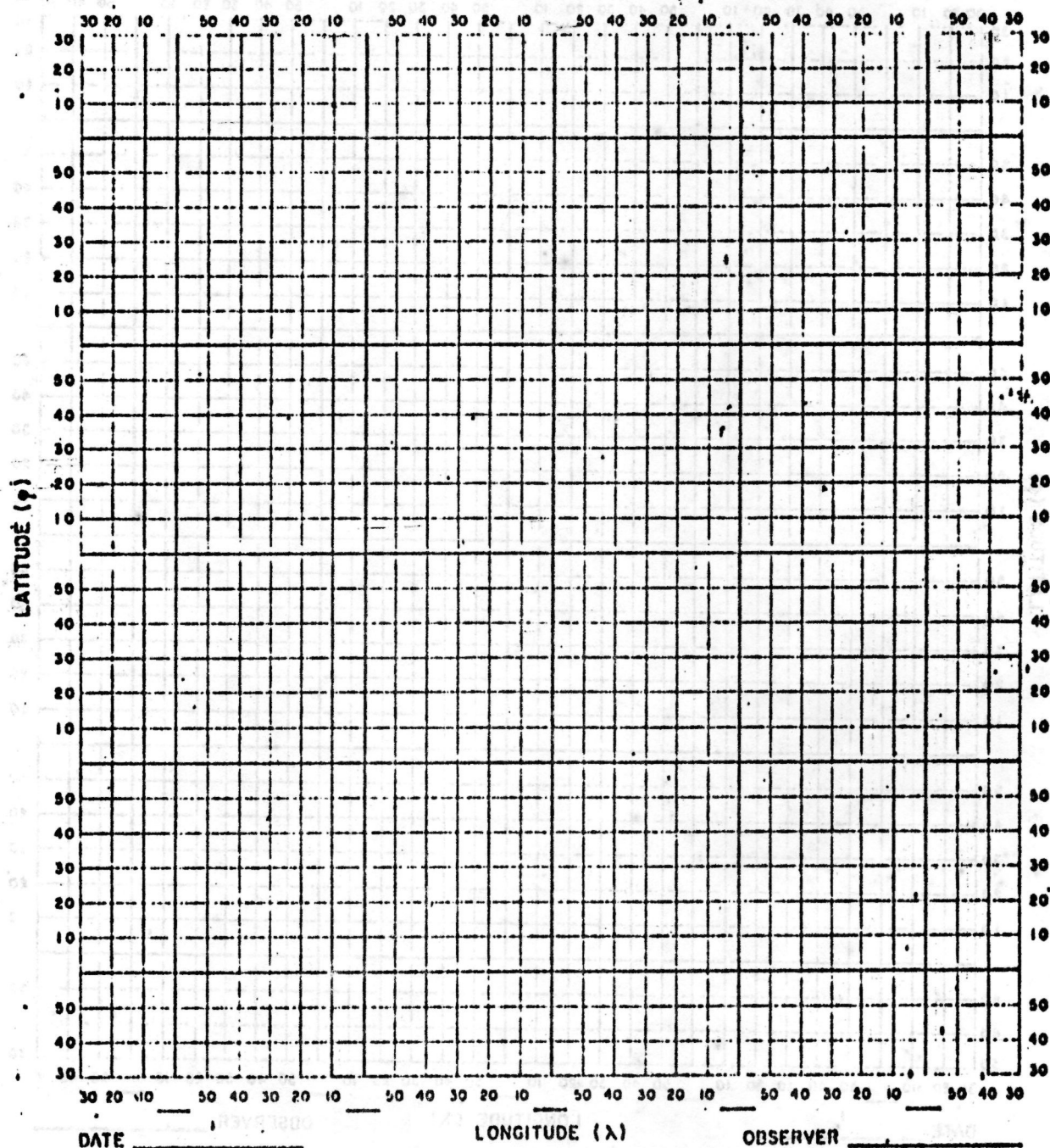
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

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