

Appendix J

Operational Checklists

19800641- LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 80080641AIRCRAFT 42RFFLT 80080641

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>JORGENSEN</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>R. Black</u>	Omega Sonde	<u>ZYSKO</u>
AXBT	<u>—</u>	Sys Eng	<u>Dugrawat</u>
Hot Film	<u>—</u>	Data Tech	<u>BRUNSON</u>
Radar	<u>Wirfel/Parrish</u>	El Tech	<u>CONNORS</u>
Flt DIR/MET	<u>Rossby</u>	Other	<u>Holland</u>

Time Off 1245 Location SAN JUAN Time On 1908 Location MIA

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP
<u>8/6</u>	<u>10Z</u>	<u>18.7</u>	<u>77.3</u>	<u>8/6</u>	<u>1525</u>	<u>19.7</u>	<u>79.2</u>	<u>—</u>
<u>—</u>	<u>15Z</u>	<u>19.0</u>	<u>78.7</u>	<u>—</u>	<u>1732</u>	<u>19.9</u>	<u>80.0</u>	<u>—</u>
<u>—</u>	<u>18Z</u>	<u>19.7</u>	<u>80.6</u>					

C. Mission Briefing

15Z and 18Z operational fixes. 1500ft butterfly
(Pattern II) IN OPS plan)

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	ok	ok	ok	
Radar	ok	ok	ok	7 tapes
Cloud Physics	ok	ok	ok	
Data Sys	ok	ok	ok	
Omega Sondes	ok	ok	ok	
AXBT	—	—	—	
Gust Probe	—	—	—	
Hot Film	—	—	—	
Photography	—	—	—	

REMARKS

Data system went down for a short while during first pass out of the eye going SW. Printer gone due to coffee spill during last 1500 ft pass through North wall.

192 knots max NE quadrant of 1500 ft

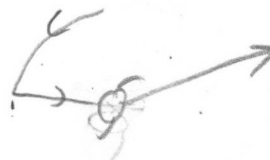
E. Proposed Flight Patterns



F. Actual Flight Patterns



at 1500 ft

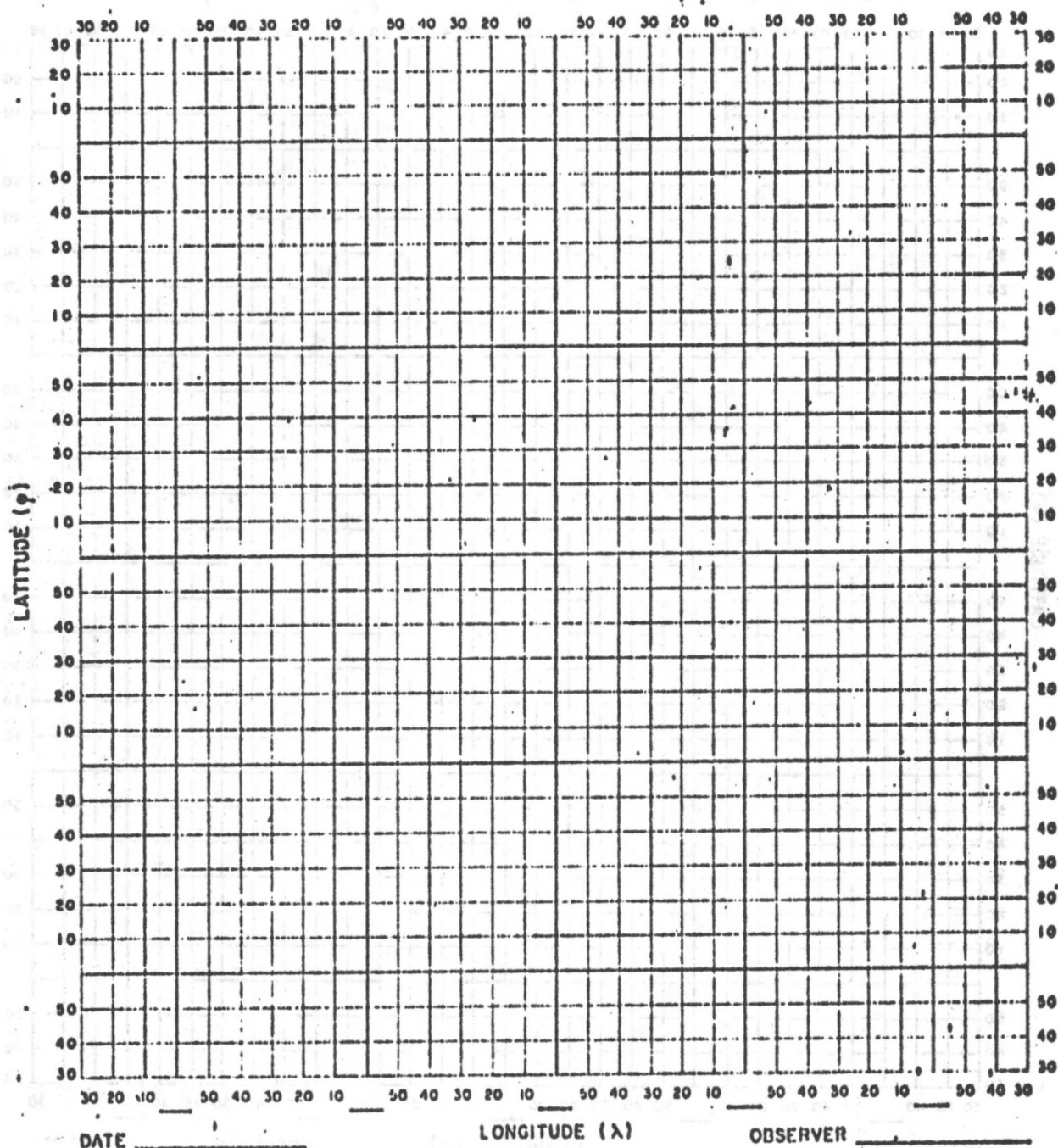


A+

10kft

HURRICANE RECCO PLOTTING CHART

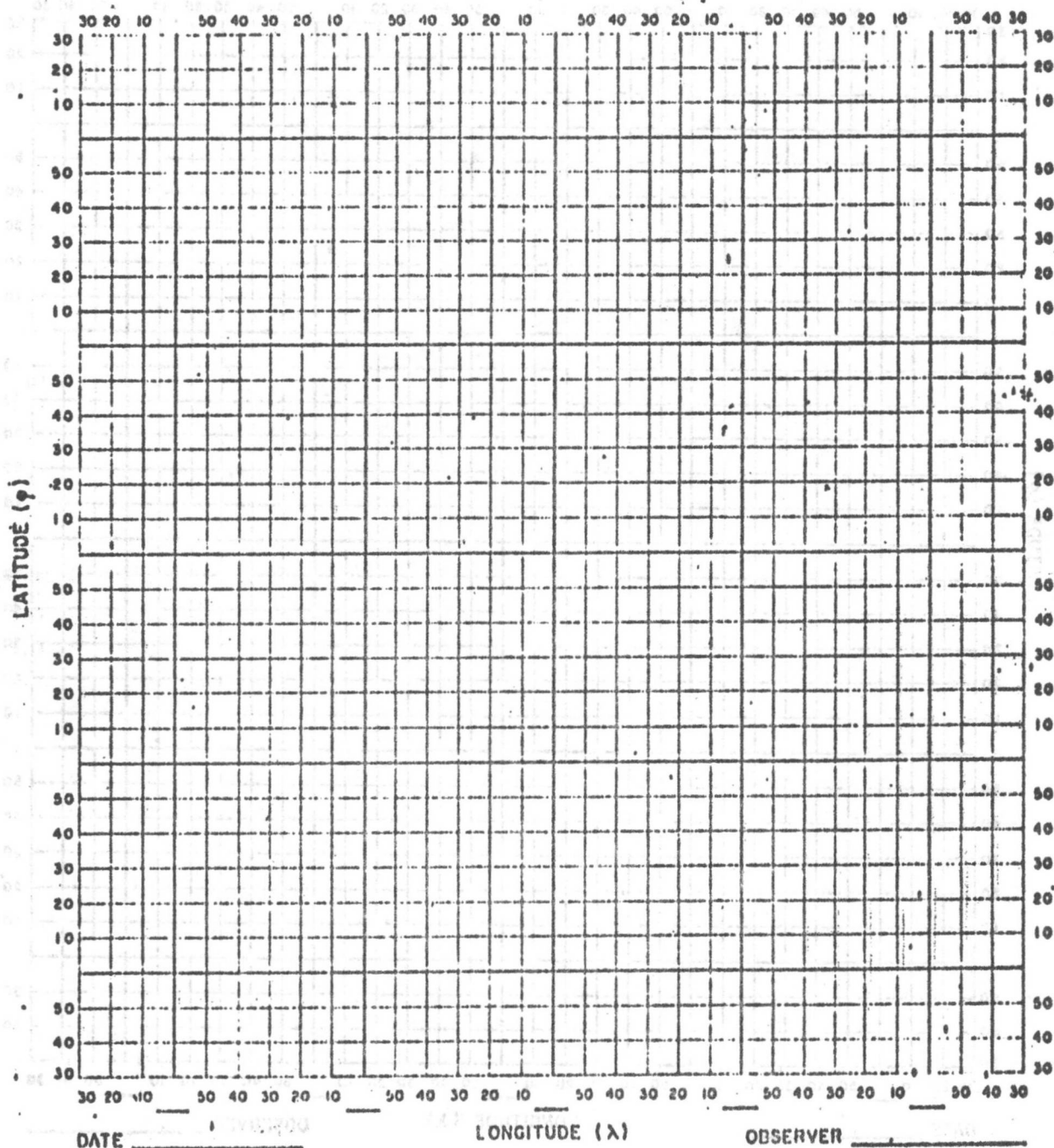
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



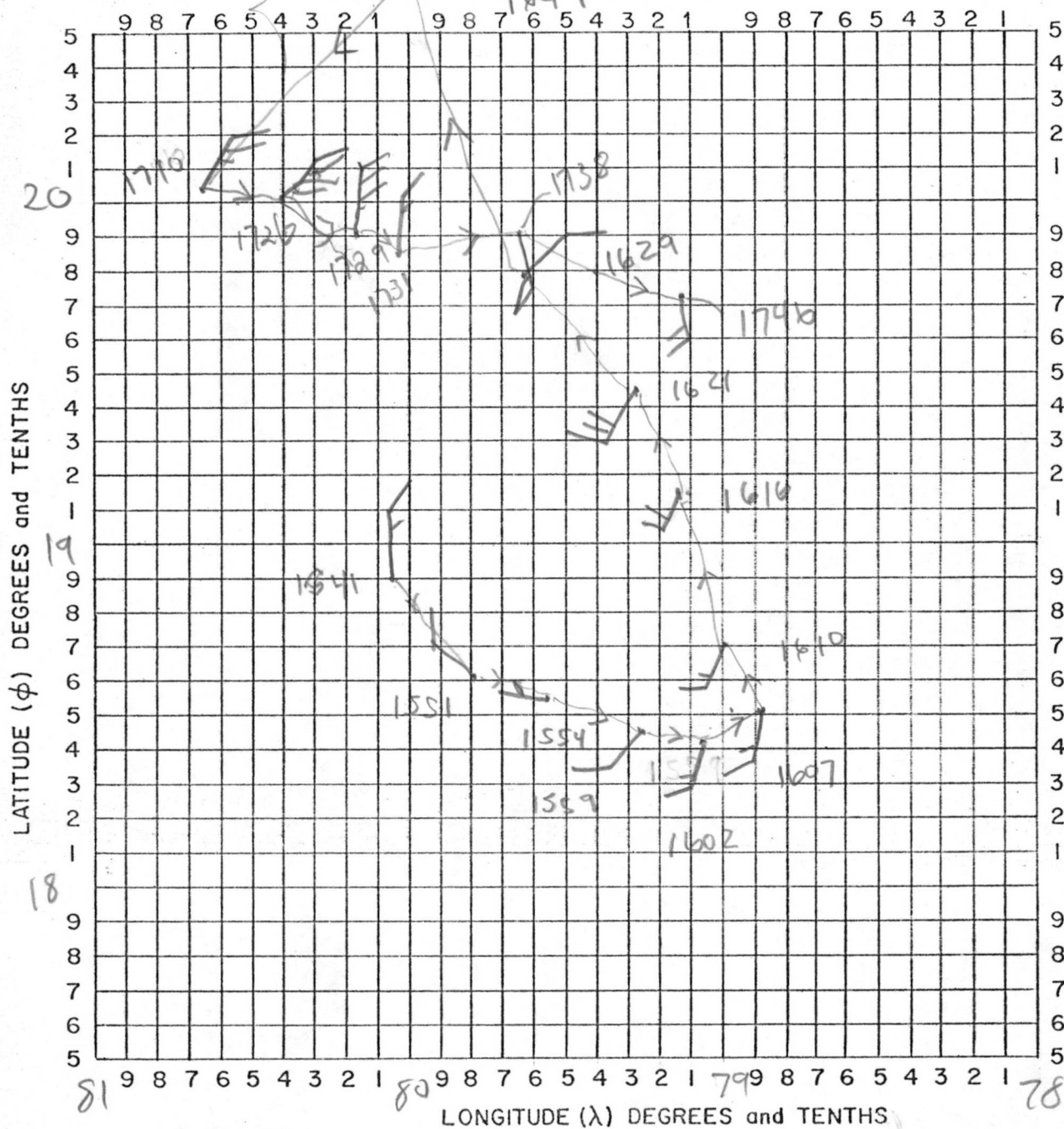
NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

HURRICANE RECCO PLOTTING CHART

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



HURRICANE RECCO PLOTTING CHART

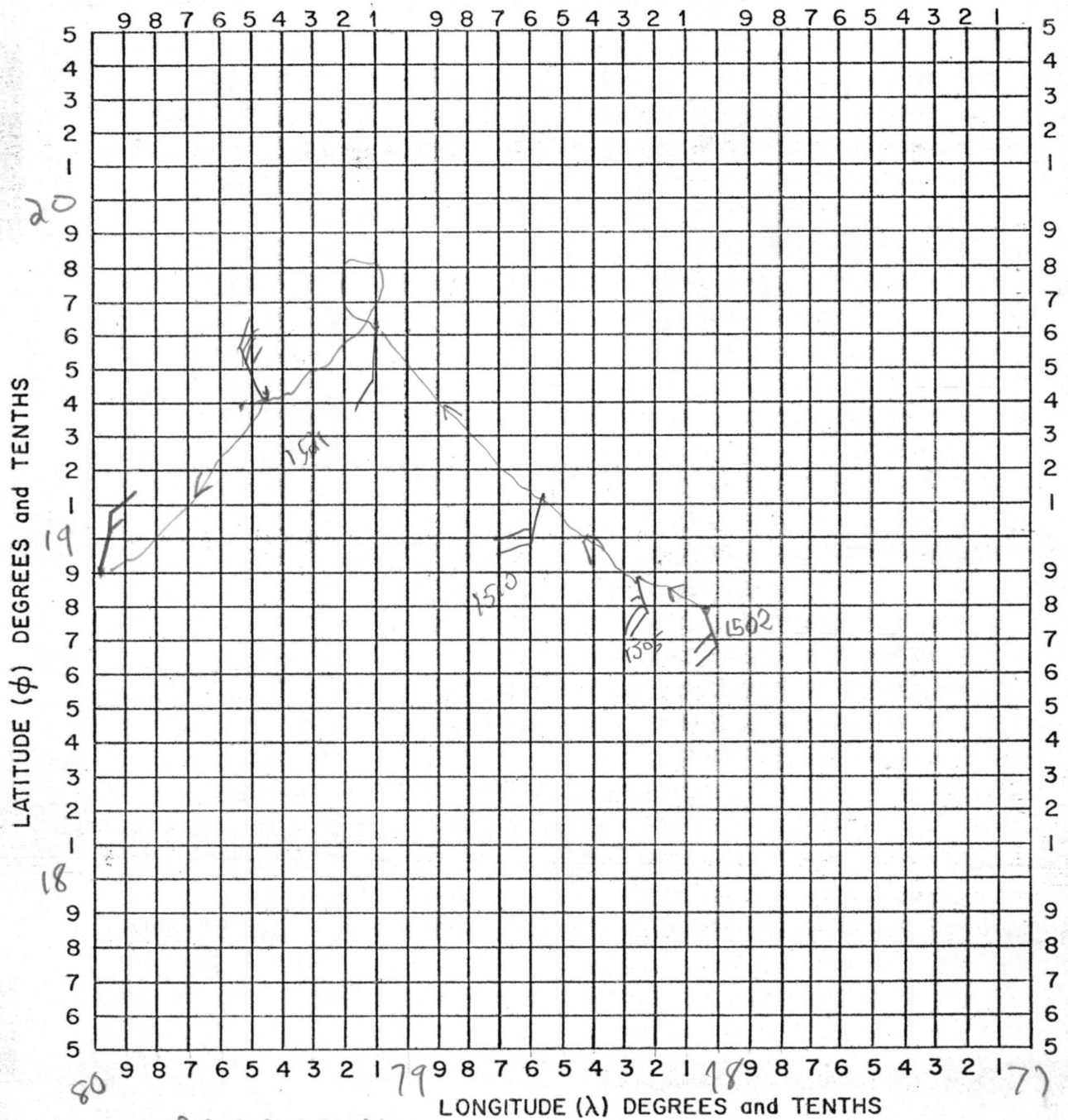


DATE 800806H1
OBSERVER JARS 2

1500 ft

NOTE: Label full degrees according to location of flight area

HURRICANE RECCO PLOTTING CHART



DATE 20080611

OBSERVER JORG 1

NOTE: Label full degrees according to location of flight area

R. A. BLACK

DATE 880806

AIRCRAFT 42 RF

FLIGHT 1

A.

INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	OK				
Nimbrometer	N/A				
Lyman Alpha					
U. V.	—				
dewpoint	—				
Foil Impactor	✓ - LITMUS P.	OK			all - ~ 12 ft.
Formvar	—				
Knollenberg					10
Raindrop	OK	OK			
Cloud Droplet	OK	USUALLY OK			
FSSP	OK	OK			
Data System	OK	OK			
& Displays	OK	OK			
Ice Particle Counter					
Mee	—				
ERT	—				
CO ₂ Radiometer	OK	OK			
Microwave Radiometer	OK	OK			
Aerosol					
Filters	—				
Bulk Water	—				
INC	—				
CCN	—				

B.

REMARKS

Rewind is back on the Pertec → at least for a little while.

9:54:52 the 2-DC overload light has been on since ~~land~~ take-off

REW on Pertec is down.

several tapes of cirrus shield ice were made,
+ low-level penetrations of the eye-wall and 1st
rainband. During one low level eye-wall penetration,
the litmus paper was exposed,

PMS LOG

800806

P.1

DATA SYSTEM

R. A. BLACK

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

#1 110450 ON

2D-C cropped out.

112130 2D-C back on

will try to recover in the eye

112900 EOT PMS

in eyewall

#2

ON 1139 39

outside of 1st rainband.

EOF 1139 04

ON 115352

in a large rainband

1200

2-D probes may be overloaded w/water to record

1202

2D-C is OK

12:07

begin another pass through the rainband in rainband.

EOT 121253

#3

ON 122040

1230

EOT 1235 40

#4

ON 123900

1244 26

these data will need TDS corrections because of turbulence.

in 1st rainband.

in eye - have been for last 3-4

severe turbulence

still in heavy turb. + rain most of this is in a rainband

EOT 1258 18

#5

ON 132610 - 1330

14430

EOT 134750

#6

ON 1354 30

EOT 140200

#7

ON 140450

EOT 1401006

anvil cloud.

anvil cloud.

same TASC 150 m/s

PMS LOG

RA. B

DATA SYSTEM

800806

P. 2

ON

OFF

TAPE

ON

OFF

EOF TIMES

NOTES

#8

ON 141355

EOF 141950

#9

ON 142204

EOF 142730

#10

ON 143030

~~ON~~

143845

EOF 144100

light ice. ~~lost tape~~

ice @ - 4.5°C

ice @ - 4.4°C

ice crystals @ - 4.7°C

humane anvil.

apparently out of anvil

OPERATOR

LA BLACK - LITMUS PAPER

[illegible]