

19770920 H1-LPS

-101-

APPENDIX I.

OPERATIONAL CHECKLISTS

FORM I-1

Onboard Lead Project Scientist CHECKLIST

DATE 9/20/77AIRCRAFT 42 RFFLT 770920H

A. Participants

<u>Function</u>	<u>Participant</u>	<u>Function</u>	<u>Participant</u>
Lead Proj. Sci.	<u>SHEETS</u>	Gust Probe	<u>N/A</u>
Cloud Physics	<u>SPAHN</u>	Omega Sonde	<u>THOMAS</u>
AXBT	<u>N/A</u>	Sys Eng	<u>CONNER</u>
Hot Film	<u>N/A</u>	Data Tech	<u>BROWN</u>
Radar	<u>STEWART</u>	El Tech	<u>FENNEL</u>
Flt DIR/MET	<u>DAVIS</u>	Other	

Time Off 1655 Z Location MIATime On 2100Z Location SJU

B. Past and Forecast Storm Position - Observed Positions

<u>Date</u>	<u>Time</u>	<u>Lat</u>	<u>Lon</u>	<u>Date</u>	<u>Time</u>	<u>Lat</u>	<u>Lon</u>	<u>MSLP</u>
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---
---	---	---	---	---	---	---	---	---

C. Mission Briefing

Intra-aircraft calibration with 43RF and 41C at 19,000 ft.
Then investigation of northern portion of easterly wave.

Form I-1, Page 2

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	See Remarks OK	OK	
Cloud Physics	OK	Foil malfunction ~ 7502	OK	
Data Sys	OK	OK	OK	
Omega Sondes	On/ NOT OPER	—	—	
AXBT	N/A	—	—	
Gust Probe	N/A	—	—	
Hot Film	N/A	—	—	
Photography	NONE	—	—	
Some slides taken and documented. - R. Elder				

REMARKS

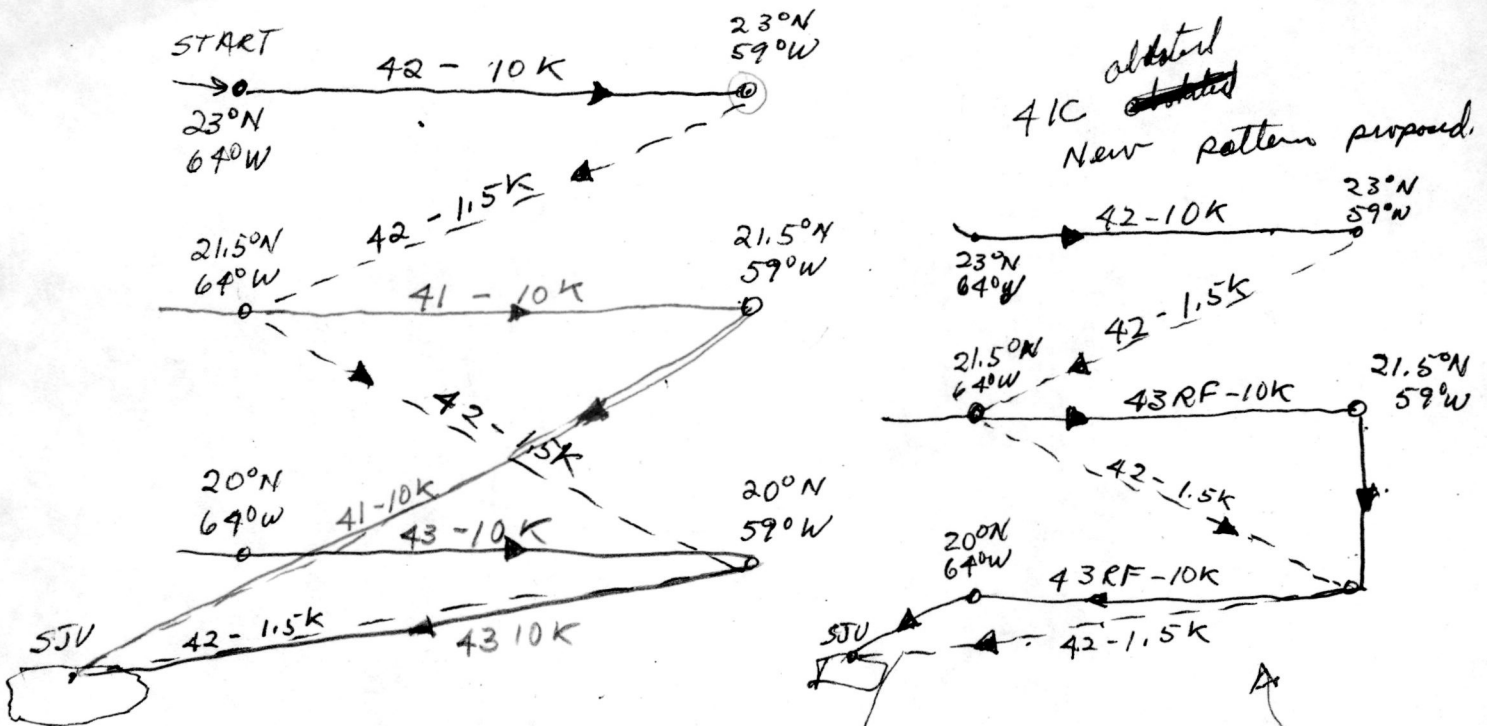
Radar tapes being conserved - will not record until we enter the pattern.

Foil Impactor malfunctioned as usual.

Occul dropouts on radar computer. Generally operating.

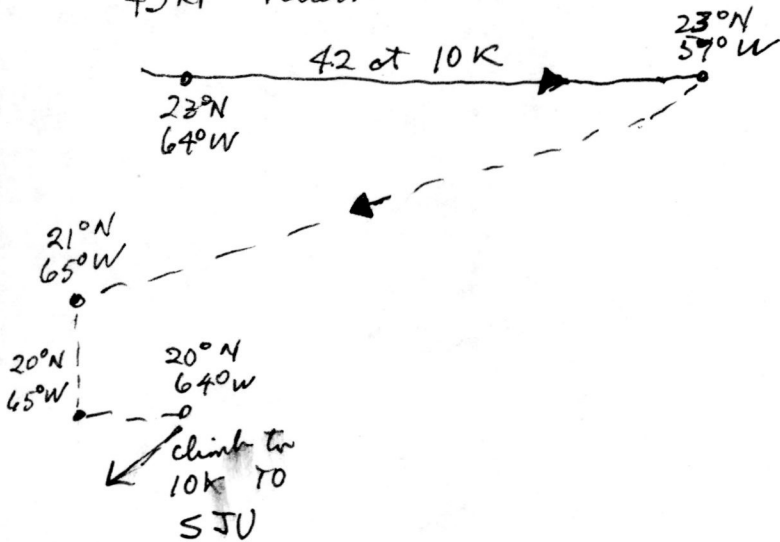
Form I-1, Page 3

E. Proposed Flight Patterns



F. Actual Flight Patterns

41C experienced outage of differential pressure (no wind or temp)
43RF Pattern to be altered. New pattern proposed



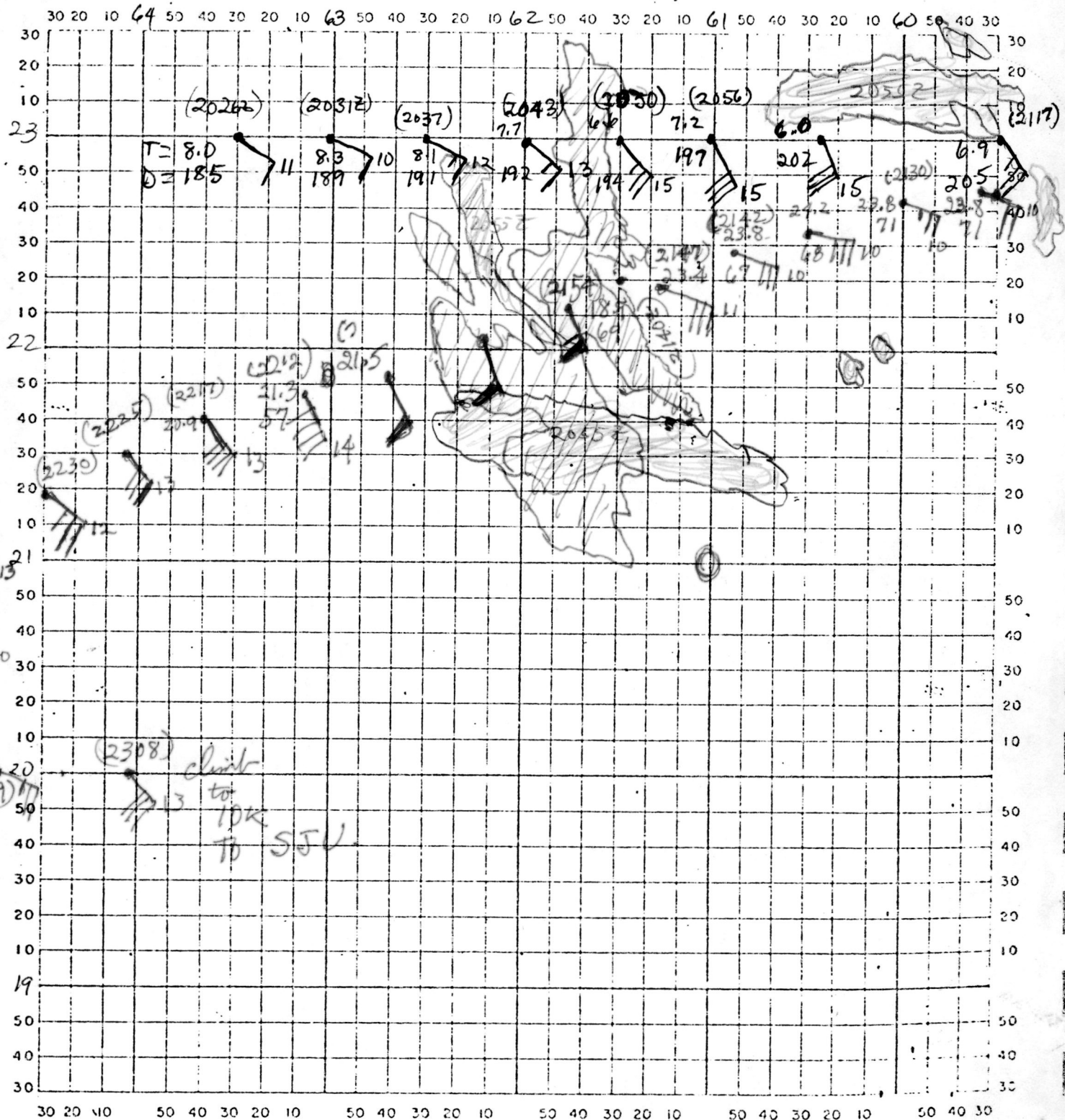
[illegible]

Times of Seeding Runs, etc.

[illegible]

770920 H

HURRICANE RECCO PLOTTING CHART

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

DATE 9/20/77

LONGITUDE (λ)

OBSERVER. SHRELS

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

ALTITUDE 10,000ft

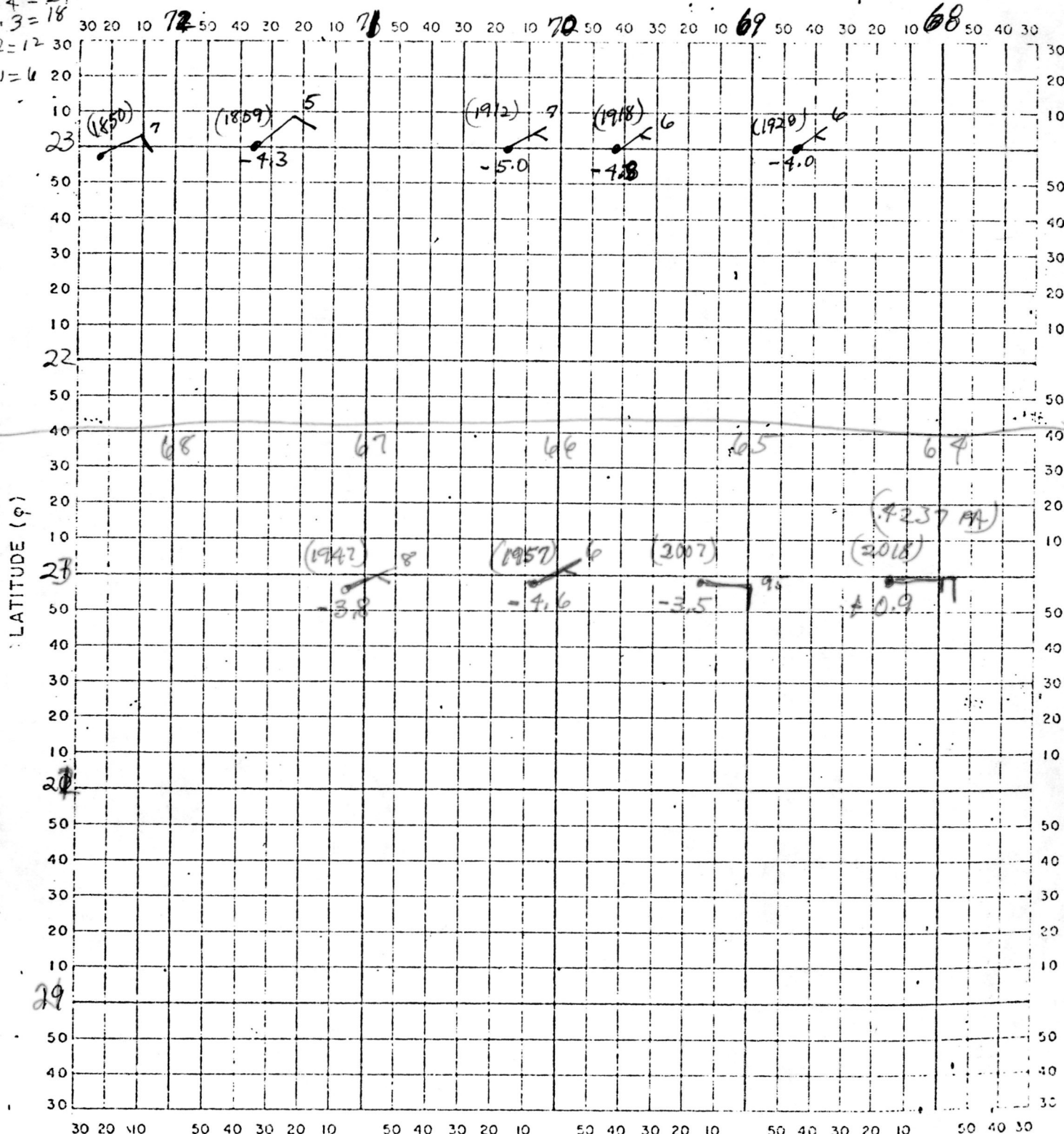
ALTITUDE 1500ft

770920H

HURRICANE RECCO PLOTTING CHART

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

1 = 54
 2 = 48
 3 = 42
 4 = 36
 5 = 30
 6 = 24
 7 = 18
 8 = 12
 9 = 6



DATE 9/20/77

LONGITUDE (λ)

OBSERVER. SHEETS

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

ALTITUDE 5100 meters

Form I-2 Cloud Physics Project Scientist Operational CHECKLIST

DATE 770920H

AIRCRAFT 42

FLIGHT 770920H

A. INSTRUMENT STATUS AND PERFORMANCE

	PreFlight	InFlight	PostFlight	Remarks	Data Units Collected
Johnson Williams	✓	✓	✓		✓
Nimbiometer	✓	✓	✓		✓
Lyman Alpha	✓	✓	✓		✓
U. V. dewpoint	✓	✓	✓		✓
Foil Impactor	✓	<i>Malfunction</i>	<i>Ripped</i>		✓
Formvar	✓	✓	✓		✓
Knollenberg		✓	✓		4 DATA TAPES
Raindrop	✓				
Cloud Droplet	✓				
-FSSP-	✓				
Data System	✓				
& Displays	✓				
Ice Particle Counter	✓	✓	✓		✓
Mee					
ERT					
CO ₂ Radiometer	✓				
Microwave Radiometer	✓	✓	✓		✓
Aerosol	✓				
Filters	✓				
Bulk Water	✓				
INC	✓				
CCN	✓				

B. REMARKS

Formvar is installed but not going to be operated today. No need for 1500' data according to Paul Wells.
Foil malfunction @ 172410 during warming to take up tension.