

Appendix J

Operational Checklists

19800804 II - LPS

FORM J-1

On-board Lead Project Scientist Checklist

DATE 8/4/80AIRCRAFT 43RTFLT 800804

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Black</u>	Gust Probe	
Cloud Physics		Omega Sonde	
AXBT		Sys Eng	<u>Goldstein</u>
Hot Film		Data Tech	<u>Lambert</u>
Radar	<u>Wäfel / Qualls</u>	El Tech	<u>Berles</u>
Flt DIR/MET	<u>McFadden</u>	Other	
Pilot: <u>Turner</u>	<u>Flt Eng: Cicchetti / Ricci</u>		
Time Off <u>1605</u>	Location	Time On	Location

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon	Date	Time	Lat	Lon	MSLP

C. Mission Briefing

Ferry to SSU

3 plane intercomparison 1634 - 1648

Zig-zag wind cal

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	_____	_____	_____	_____
Data Sys	_____	_____	_____	_____
Omega Sondes	_____	_____	_____	_____
AXBT	_____	_____	_____	_____
Gust Probe	_____	_____	_____	_____
Hot Film	_____	_____	_____	_____
Photography	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

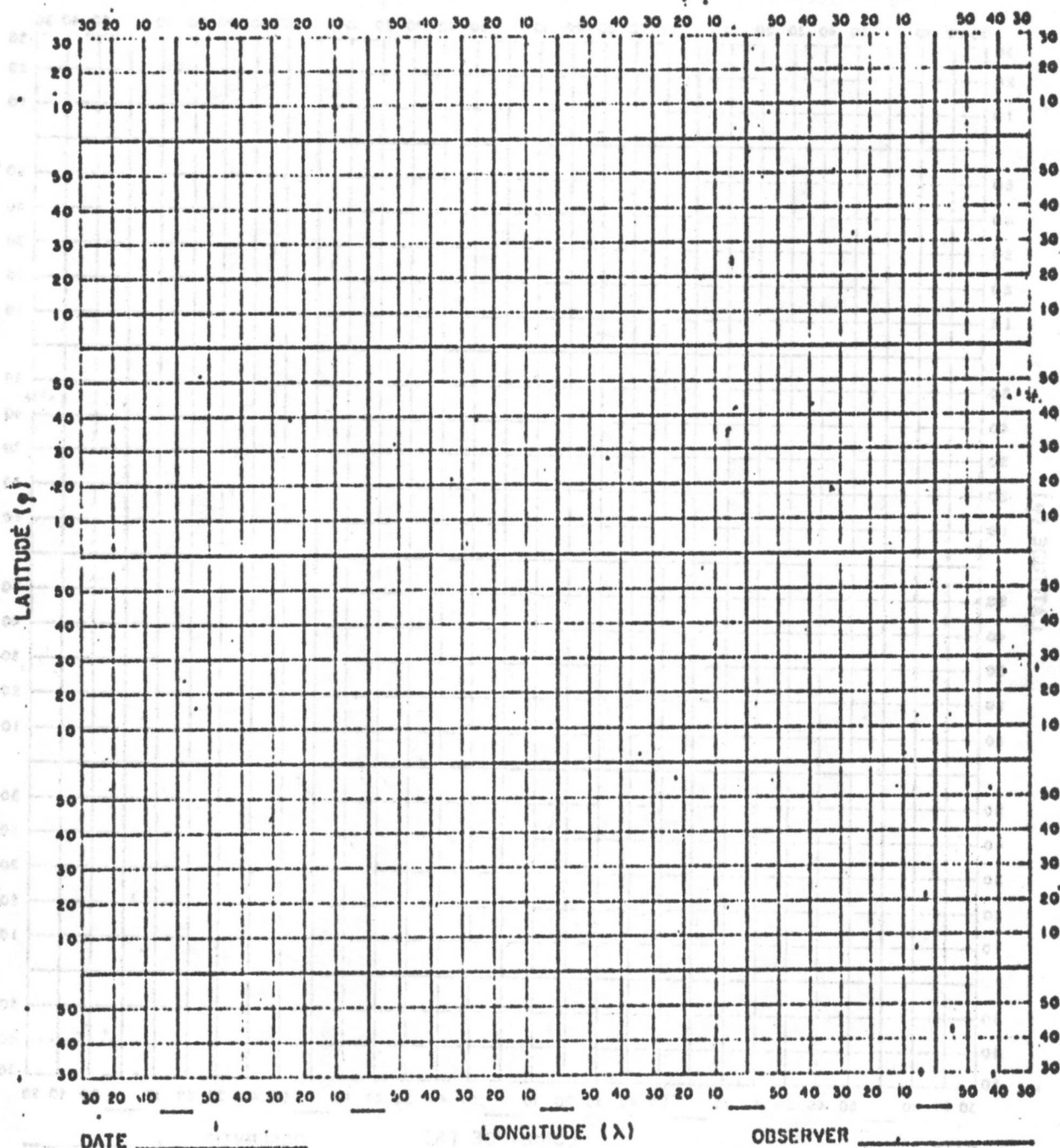
REMARKS

E. Proposed Flight Patterns

F. Actual Flight Patterns

HURRICANE RECCO PLOTTING CHART

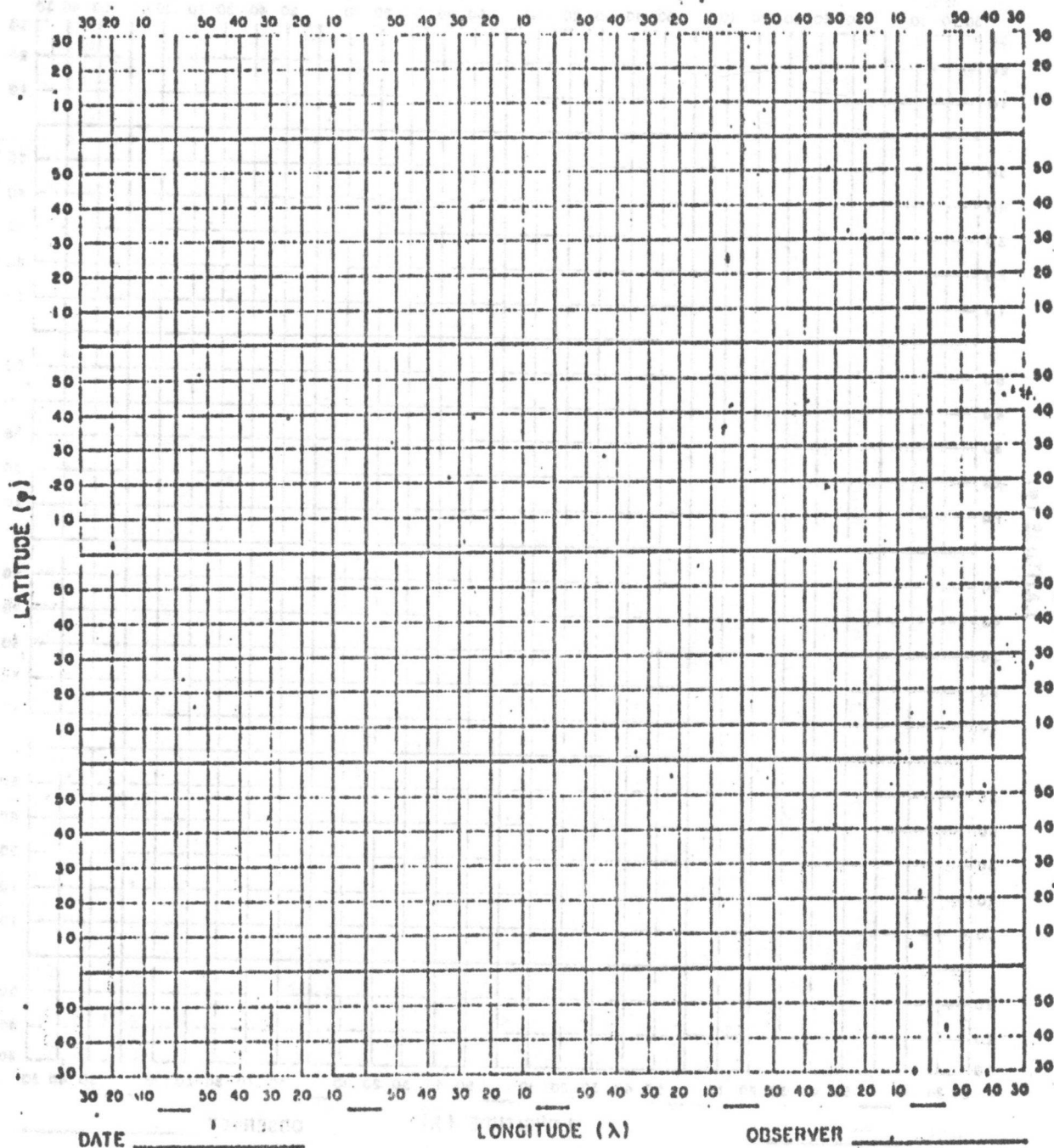
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ



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



NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

8/3/80

Day 1

Crews - Rainband - Eyewall exp.

	<u>43RF</u>	<u>42RF</u>	<u>41C</u>
Ld. Proj Sc.	P. BLACK ✓	✓ Jorgensen	Willoughby ✓ (Zipser) ✓
CLD PHYS.	R. Falls	✓ R. Black	
Radar	Marks Lewis ✓	✓ Wifel ✓ Parrish	Lein
AXBT	Powell ✓	Holland	

Day 2

Crews - Eyewall

	<u>43RF</u>	<u>42RF</u>	<u>41C</u>
LPS	P. Black	Sheets	Willoughby Zipser
CLD PHYS	R. Falls	R. Black	
Radar	Jorgensen Wifel	Lewis Parrish	Lein

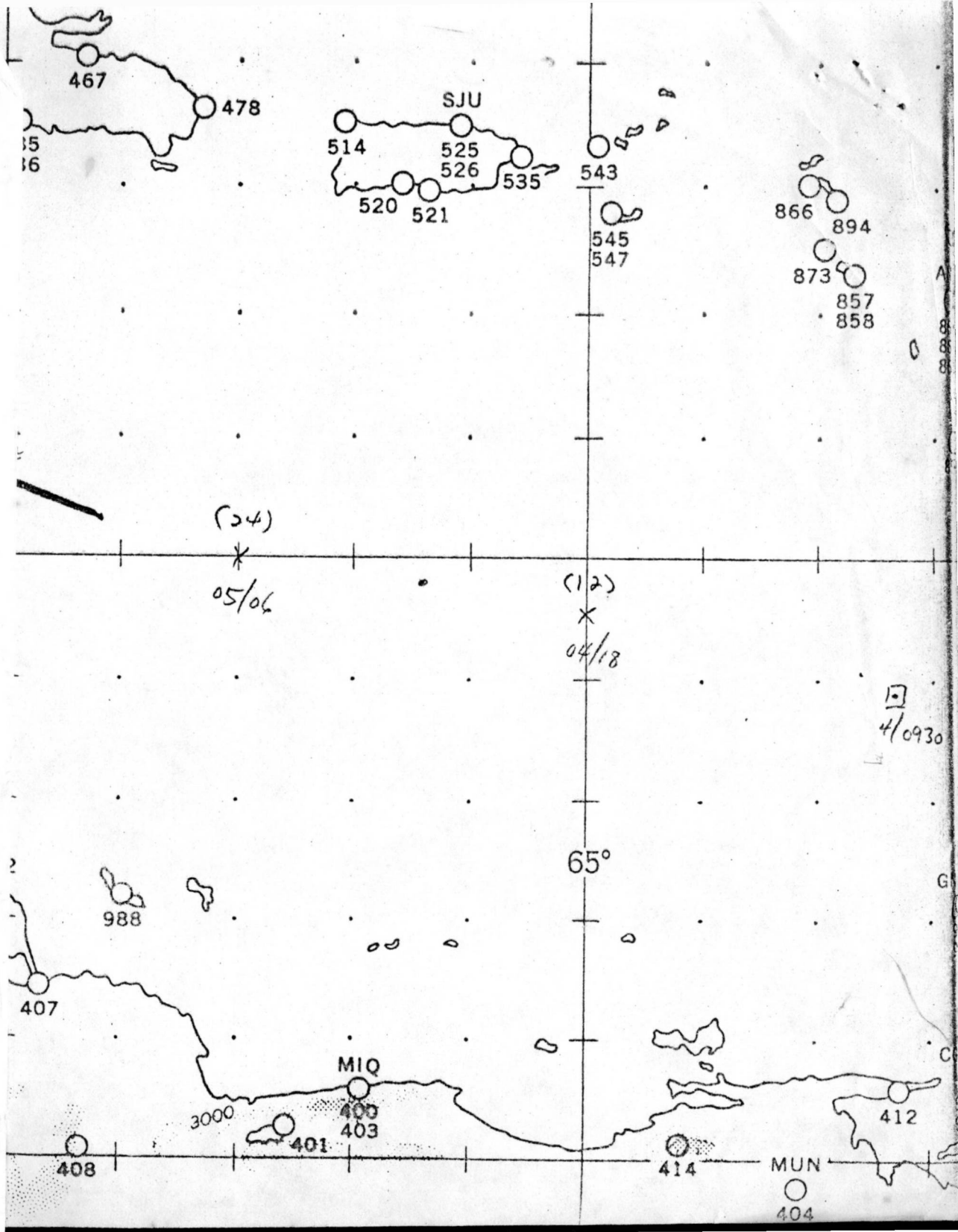
Deployment

8/4/80

<u>41C</u>	<u>43RF</u>	<u>42RF</u>
Lein	Marks	Parrish
Willoughby	Wifel	Jorgensen
Holland	P. Black	Falls
L. Jorgensen Powell		

Commercial

Zipser
Sheets
TROUT
Brown
~~Jorgensen~~
Lewis
Powell
R. Black ?



FLIGHT DATA LOG

FLIGHT: 800804 43RT STORM: Allen ferry flight

TIME: _____ TO: _____

ON-BOARD LEAD PROJECT SCIENTIST: B. Black

Flight summary (include status of instrumentation and recording equipment, as well as any problems, malfunctions or outages with approximate times):

3 plane inter calibration

DATA VOLUME

STANDARD METEOROLOGICAL TAPES: 1

FAST TAPES: _____

RADAR TAPES: DIGITAL _____ VIDEO _____ LF ☐ TA ☐ NO ☐

CLOUD PHYSICS/KNOLLENBERG TAPES: _____

FORMVAR? ☐ FOIL? ☐

AXBT's? ☐ NO. of DROPS: _____ PRINTOUT? ☐

OMEGA DROPWINDSONDES? ☒ NO. of DROPS: _____

NO. of CASSETTES _____ PRINTOUT? ☐ STRIP CHARIS? ☐

PHOTOGRAPHY: VERTICAL? ☐ SIDE? ☐ NOSE? ☐

(IF KNOWN) RATE: _____ RATE: _____ RATE: _____

SEEDING MISSION? ☐ FROM THIS A/C? ☐ NO. of FLARES: _____

Allen: ferry to SSU 8/4/80

70: 41C 1604Z

43RF 1605Z

42RF 1606Z

1615 climbing with 41C in sight
~1/4 mi ahead

1626 losing on 41 at 2550 m

1630 100 yds from 41 at 3170 m

1634 begin 3 plane formation
flight at 3620 RA, ~~3351~~ 351 RA

1648 breaks off formation

165130 - 165230 14K

165530 - 165630 17K

170145 - 170245 20K

170740 - 170840 23K

171530 - 171740 25K

~~171840~~ ~~166~~ ~~078~~ ~~W~~

Time	Hdg	CND	WS	TAS
171840	166	078	2.9	162
172050	end			

172210	075	120	1.4	162
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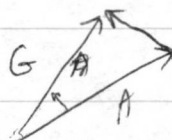
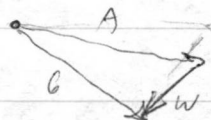
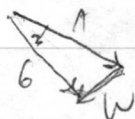
172520	075	130	2.3	163
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172620	end	120-140	1.5-2.5	
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172740	166	070	2.7	160
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		050-060	3.1	
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172940		045	3.1	
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drift too large or A too small