

APPENDIX I.

OPERATIONAL CHECKLISTS

FORM I-1

Onboard Lead Project Scientist CHECKLIST

DATE 30 Aug 1977AIRCRAFT 41 C

FLT _____

A. Participants

TROPICAL STORM ANITA

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>BURPEE</u>	Gust Probe	_____
Cloud Physics	<u>WILLIS CUNNING</u>	Omega Sonde	_____
AXBT	<u>BLACK</u>	Sys Eng	<u>SCHRIKKER</u>
Hot Film	_____	Data Tech	<u>DARBY</u>
Radar	<u>LOUDIN</u>	El Tech	<u>CALVERT</u>
Flt DIR/MET	<u>MICHIE</u>	Other	_____

Time Off 1512ZLocation MIATime On 2235

Location _____

NAVAL AIR STATION
NEW ORLEANS

B. Past and Forecast Storm Position - Observed Positions

Date	Time	Lat	Lon		Date	Time	Lat	Lon	MSLP
<u>30 AUG</u>	<u>0000</u>	<u>26.6N</u>	<u>89.5W</u>	<u>42</u>	<u>30 AUG</u>	<u>1635</u>	<u>26.34'</u>	<u>90.30'</u>	_____
<u>30 AUG</u>	<u>0600</u>	<u>26.8N</u>	<u>89.9W</u>	<u>42</u>	_____	<u>1713Z</u>	<u>26.35'</u>	<u>90.32'</u>	<u>1000</u>
<u>30 AUG</u>	<u>1200</u>	<u>26.6</u>	<u>90.3W</u>		_____	<u>2046</u>	<u>26.20</u>	<u>90.48'</u>	<u>992.3</u>

C. Mission Briefing

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D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓	✓	✓	
Radar (No digital system)	✓	radar overheated at 2105Z	radar fan will be installed to cool radar expected to be operational tomorrow	
Cloud Physics	✓			Lyman alpha?
Data Sys	✓	✓	✓	
Omega Sondes				
AXBT	✓	✓	✓	
Gust Probe				
Hot Film				
Photography	Not operating			

REMARKS

Digital radar system not yet working - polaroid pictures taken when possible in convection.
No photography

Record time, lat, lon + SST of each drop for Pete
Polaroid camera problems 1920, repaired 1940

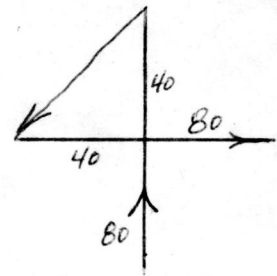
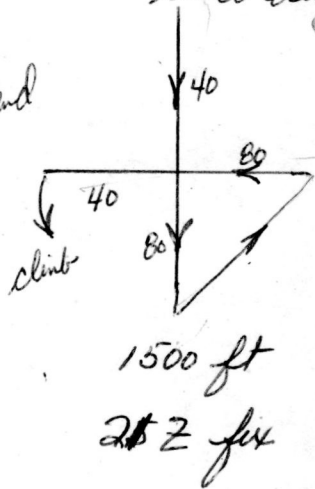
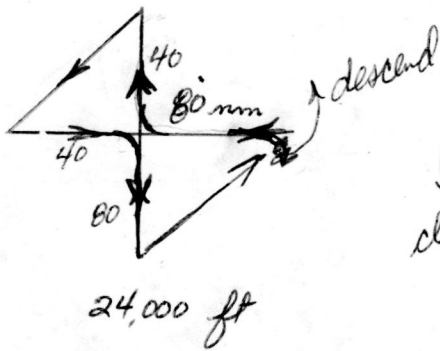
Radar out before climb to 12,000 feet - pattern at that level aborted - possible cause is heating at high levels required to pressure plane
radar functioned OK after it cooled down
HIC has tapes for 42 - This practice seems
Unwise

Two inertial systems are off by 13 miles at 2135Z

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E. Proposed Flight Patterns

major convection in SE half of storm
according to satellite and 42 RF

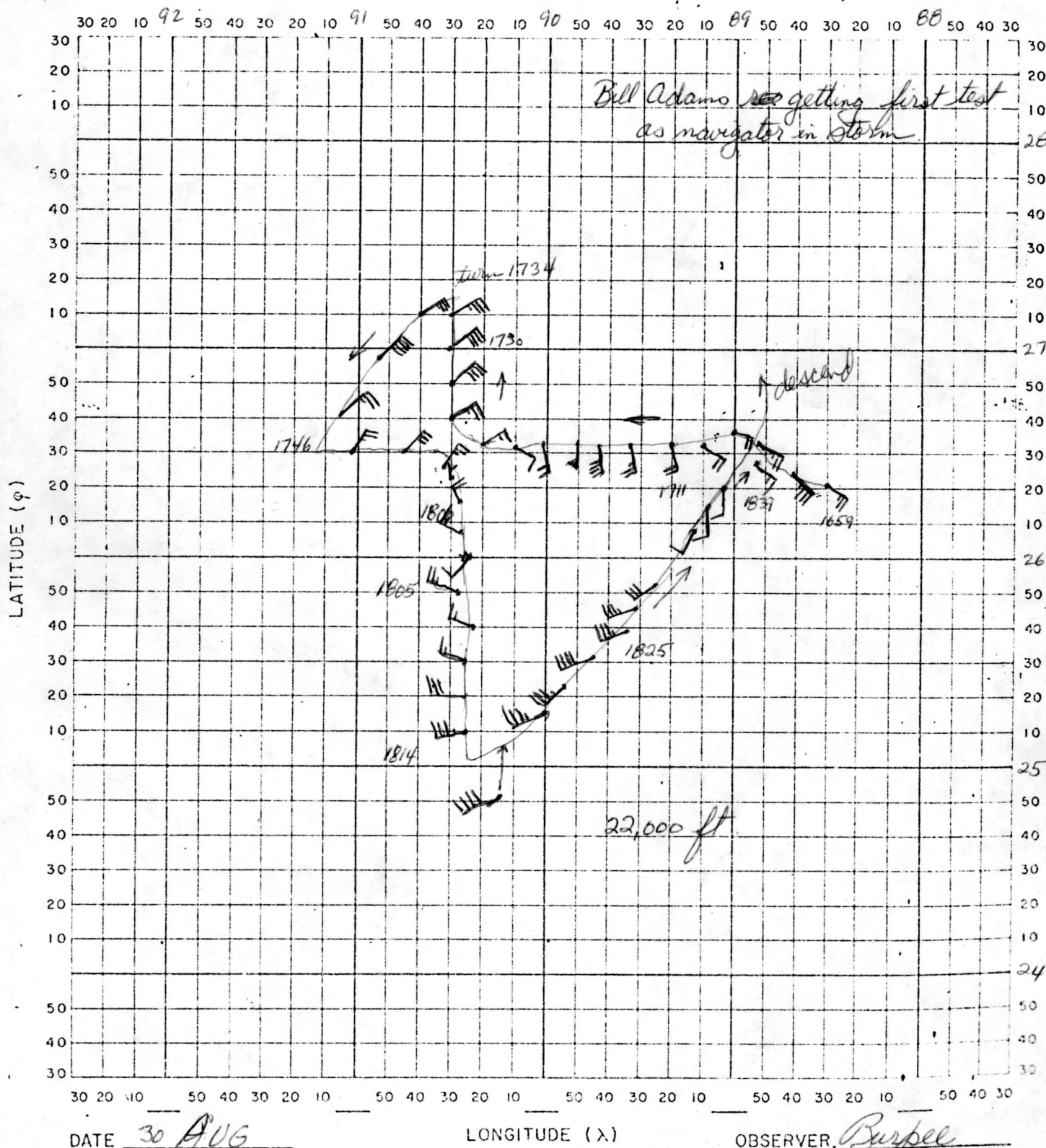


12,000 ft
if insufficient time
to complete pattern,
do the optimum pattern
that satisfies Paul Willis

F. Actual Flight Patterns

no pattern at 12,000 - radar failure

HURRICANE RECCO PLOTTING CHART

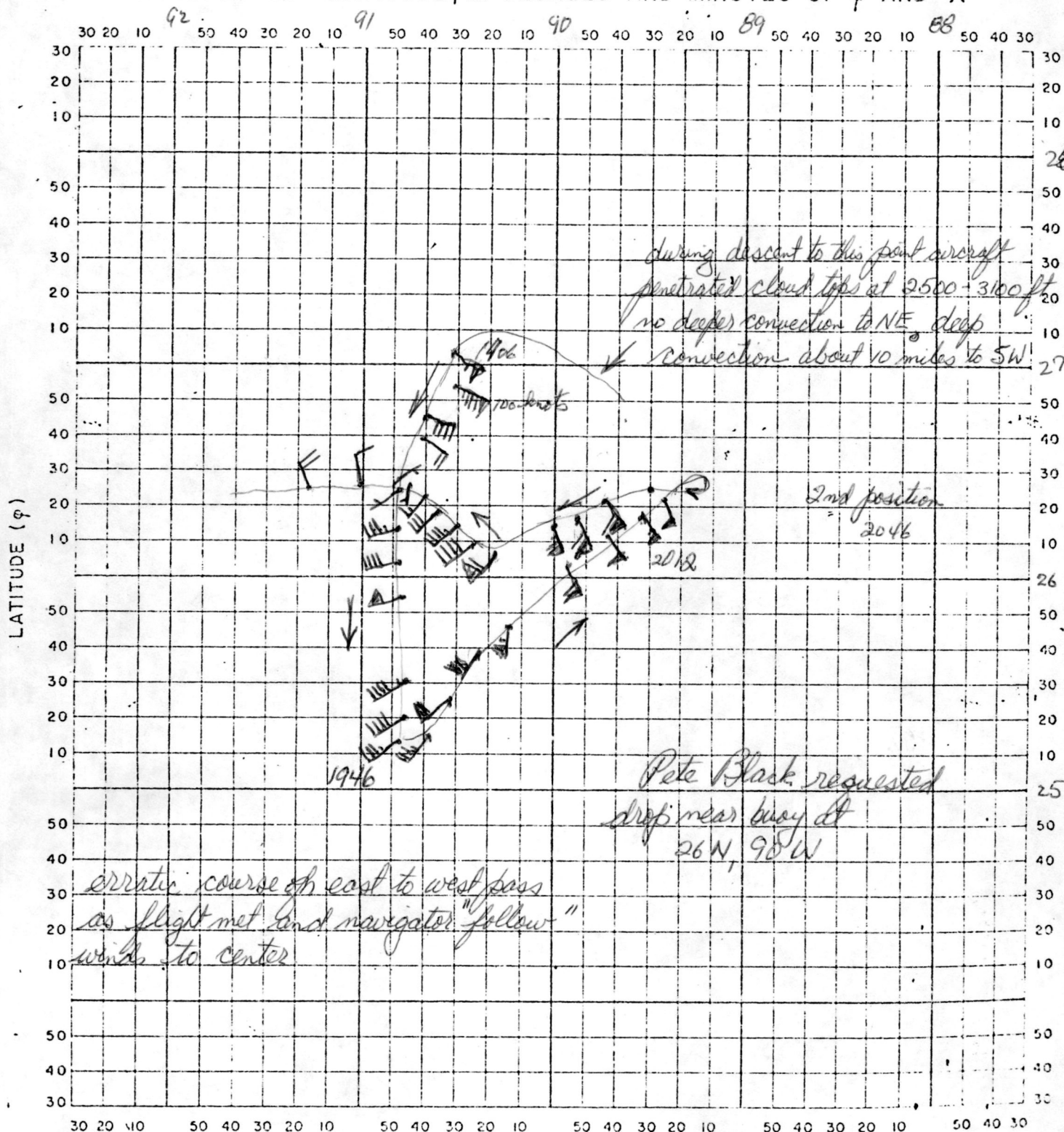
TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ 

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

1500 ft.

212 fix requirement

HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ DATE 30 AUGLONGITUDE (λ)OBSERVER Burpee

NOTE: LABEL FULL DEGREES ACCORDING TO LOCATION OF FLIGHT AREA

ALTITUDE (1,000'S OF FEET)

