

19850815I1-LPS

Form E-1
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On-board Lead Project Scientist Checklist

DATE 15 AUGUST 1985 AIRCRAFT NDAA43 FLT B50815I

A. Participants HURRICANE DANNY

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>BURPEE</u>	Gust Probe	
Cloud Physics		Omegasonde	
AXBT/AXCP		Sys Eng	<u>BURLIS</u>
Hot Film		Data Tech	<u>STONE</u>
Radar	<u>DORST/GAMACHE</u>	EI Tech	<u>GONZALEZ/CALVERT</u>
Flt Dir/Met	<u>DAVIS</u>	Other	

Take Off 1210 GMT Location MIA Landing 2618 Location MIA

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>15</u>	<u>0234 GMT</u>	<u>27°13'N</u>	<u>91°32'W</u>	<u>999</u>
<u>15</u>	<u>0518</u>	<u>28°00'</u>	<u>92°00'</u>	<u>996</u>
<u>15</u>	<u>0627</u>	<u>28°08'</u>	<u>92°05'</u>	<u>993</u>
<u>15</u>	<u>0858</u>	<u>28°40'</u>	<u>92°30'</u>	<u>991</u>
	<u>1107</u>	<u>28°50'</u>	<u>92°35'</u>	<u>989 MAX WIND 82 KTS</u>

BROAD EYE - 50NM WIDE, OPEN
ON ONE QUADRANT

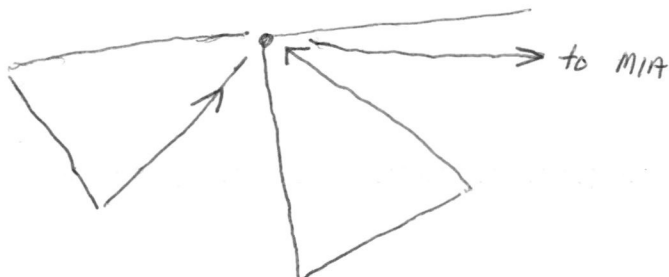
C. Mission Briefing

LONG-TERM MONITORING, BUT STORM CENTER MAY
BE VERY NEAR LANDFALL, ROTATING FOUR PATTERN WILL BE ADAPTED
TO THE SITUATION, EMPHASIS WILL BE PLACED ON MONITORING
THE ONSHORE FLOW ON EAST SIDE OF STORM - FOR NHC

D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓	✓		
Radar LFOONLY	✓	✓		
TAIL INDOPERATIVE				
Cloud Physics	NOT RECORDED, NO QDP			
FSSP OK, OLD QDC MARGINAL				
Data Sys	✓	✓		
Omegasondes	NA			
AXBT/AXCP	NA			
Gust Probe	NA			
Hot Film	NA			
Photography	NO SIDE OR OR NOSE CAMERAS ?			
HASSELBLAD	CAMERA AND FILM NOT LEFT ON THE PLANE, UNABLE TO			
	GET ALL OF THE APPROPRIATE FILM ETC BEFORE TAKEOFF			
SFMR	✓	✓		

E. Proposed and Actual Flight Patterns (Identify by number and type - give reason for modification)



LENGTH OF RADIAL LEGS >

RADIUS OF MAXIMUM WIND ~ 120 NM

EXPECT THE CENTER OF THE

EYE TO BE ABOUT 20 NM

OFFSHORE FOR FIRST FIX

E.1 Lead Project Scientist (On-Board)

The on-board lead project scientists are responsible for carrying out the scientific mission of their assigned aircraft. (Check off and initial when completed.)

E.1.1 Preflight

- ✓ 1. Participate in general mission briefing.
- ✓ 2. Determine specific mission and flight requirements for assigned aircraft.
- ✓ 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with OAO flight director/meteorologist and CARCAH, unless briefed otherwise by field program director.
- ✓ 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- ✓ 5. Meet with OAO flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- ✓ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center.

E.1.2 In-Flight

- ✓ 1. Confirm from OAO flight director/meteorologist that satellite data link is operative (information).
- NA 2. Confirm camera mode of operation.
- ✓ 3. Confirm data recording rate.
- ✓ 4. Complete form E-1.

E.1.3 Postflight

- ✓ 1. Debrief scientific crew.
- ✓ 2. Report landing time, aircraft, crew and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to HRD operations center.
- ✓ 3. Gather completed forms for mission and turn in at the operations center.
- ✓ 4. Determine next mission status, if any, and brief crews as necessary.
- ✓ 5. Notify operations center as to where you can be contacted and arrange for any further coordination required.

FLIGHT B50815I

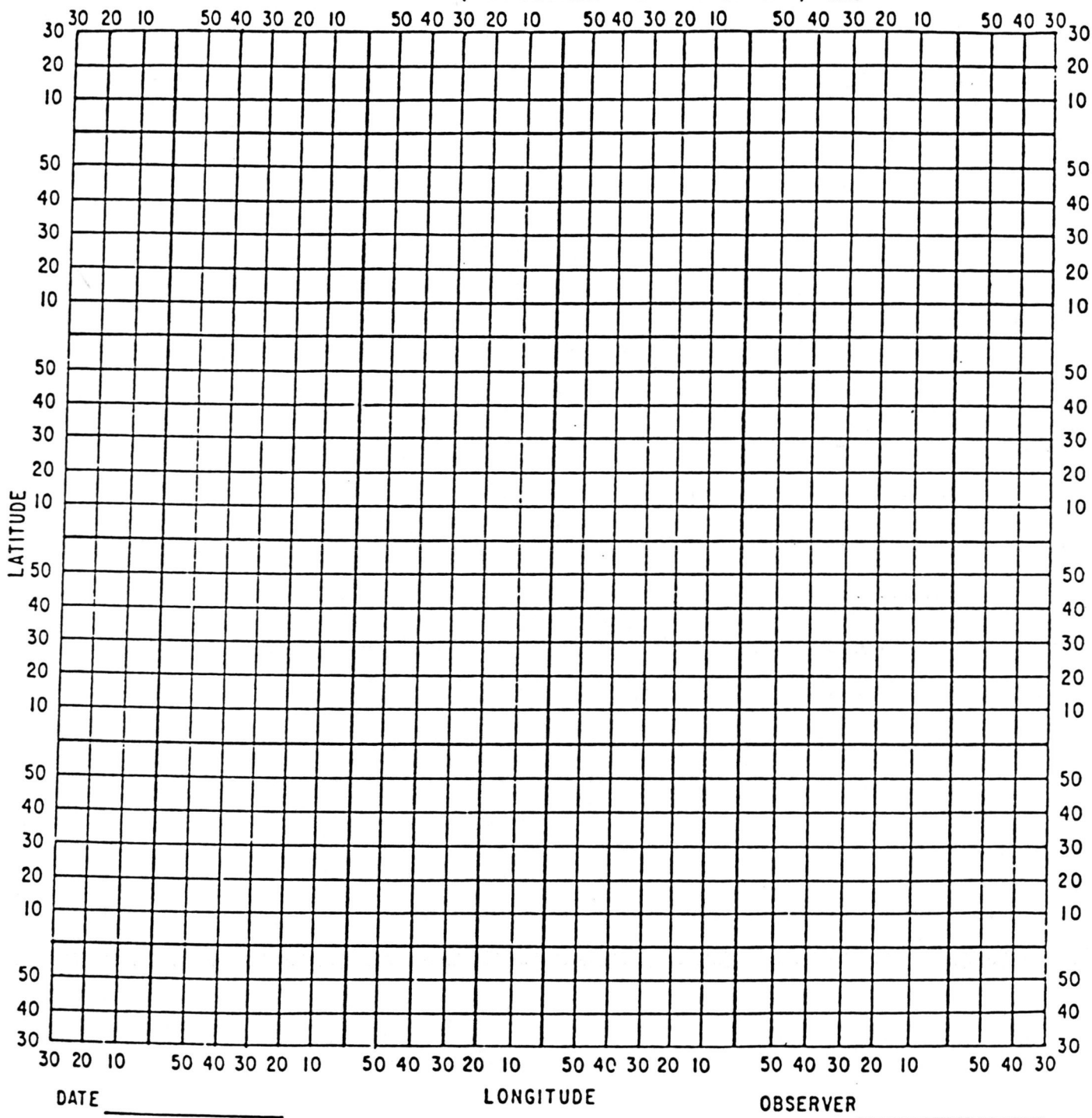
LPS ~~Burpee~~ Burpee

[illegible]

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.

HURRICANE RECCO PLOTTING CHART

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



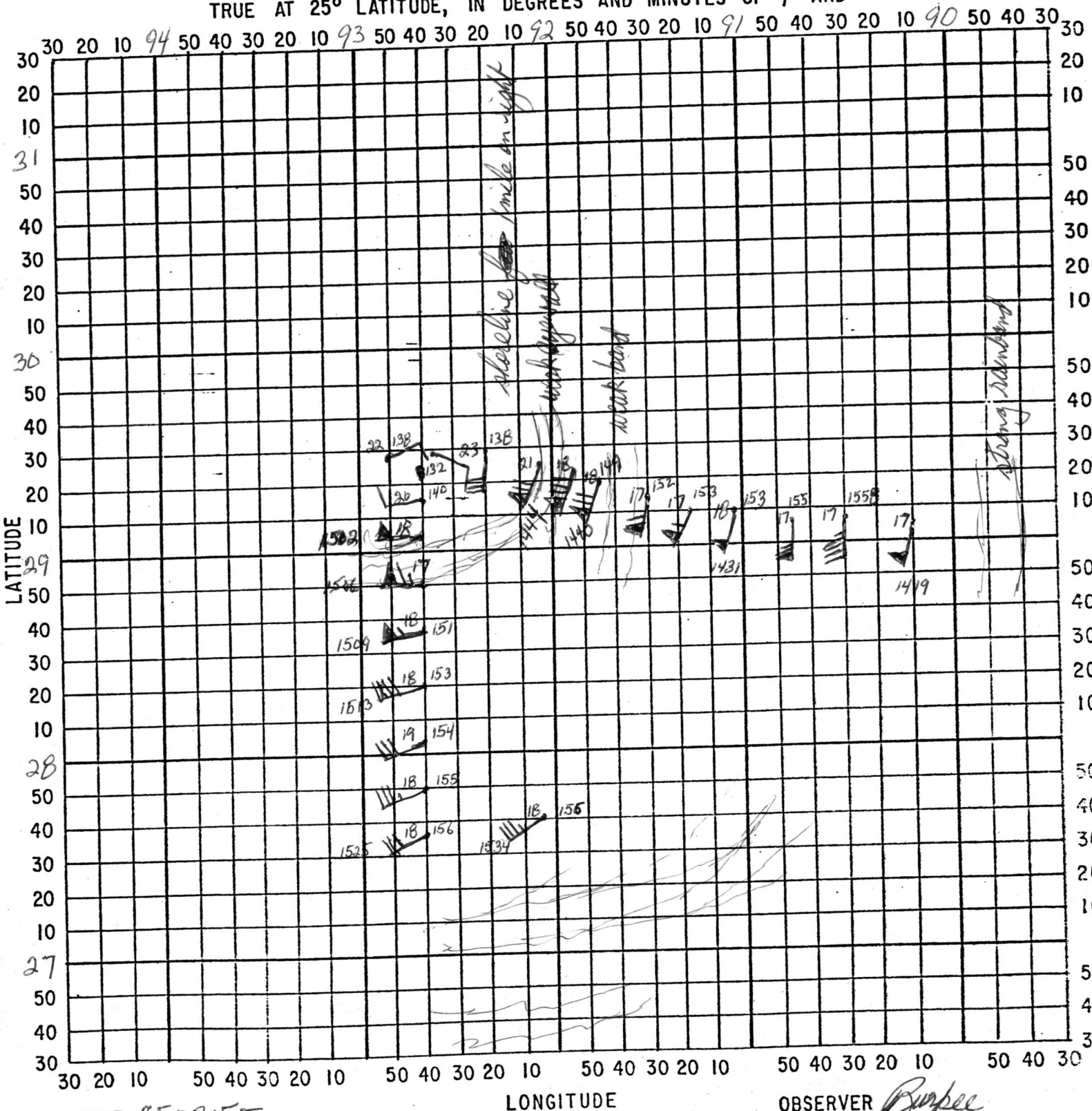
NOTE: Label full degrees according to location of flight area

33-66

1 of 3
circular eye apparent
70-80 miles away on first approach
from the east 60 nm diameter

HURRICANE RECCO PLOTTING CHART

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



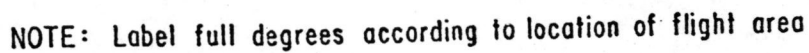
DATE 850815Z

LONGITUDE

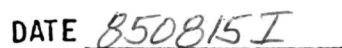
OBSERVER Burpee

NOTE: Label full degrees according to location of flight area

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



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



OBSERVER Burpee

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