

1985100841-LPS

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

- HLO 1. Participate in general mission briefing.
- HLO 2. Determine specific mission and flight requirements for assigned aircraft.
- HLO 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.
- HLO 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- HLO 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.
- HLO 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center.

E.1.2 In-Flight

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

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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.

On-board Lead Project Scientist Checklist

DATE 8 Oct 85 AIRCRAFT N42RF FLT 851008I

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	<u> </u>
Cloud Physics	<u>R. BLACK</u>	Omegasonde	<u> </u>
AXBT/ AXCP	<u> </u>	Sys Eng	<u> </u>
Hot Film	<u> </u>	Data Tech	<u> </u>
Radar	<u>M. BLACK, KOHLER</u>	EI Tech	<u> </u>
Flt Dir/Met	<u> </u>	Other	<u>STROKE (NCAR)</u>

Take Off 08/1410 Location MIA Landing 09/0132 Location MIA

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>08</u>	<u>0505</u>	<u>24° 14'</u>	<u>70° 59'</u>	<u>1004</u>
<u>08</u>	<u>1207</u>	<u>25° 08'</u>	<u>71° 29'</u>	<u>1003</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

C. Mission Briefing

FLY EAST TO 6 OUT ALONG IIO TO OUTSIDE
PRINCIPAL BAND IN AND OUT ACROSS BAND AT
1500', 500' (IF POSSIBLE), AND 2500'. DOWNWIND LEG
IF TIME PERMITS TO N OF 6. INTO 6 THEN
MORE PROFILES ACROSS BAND.

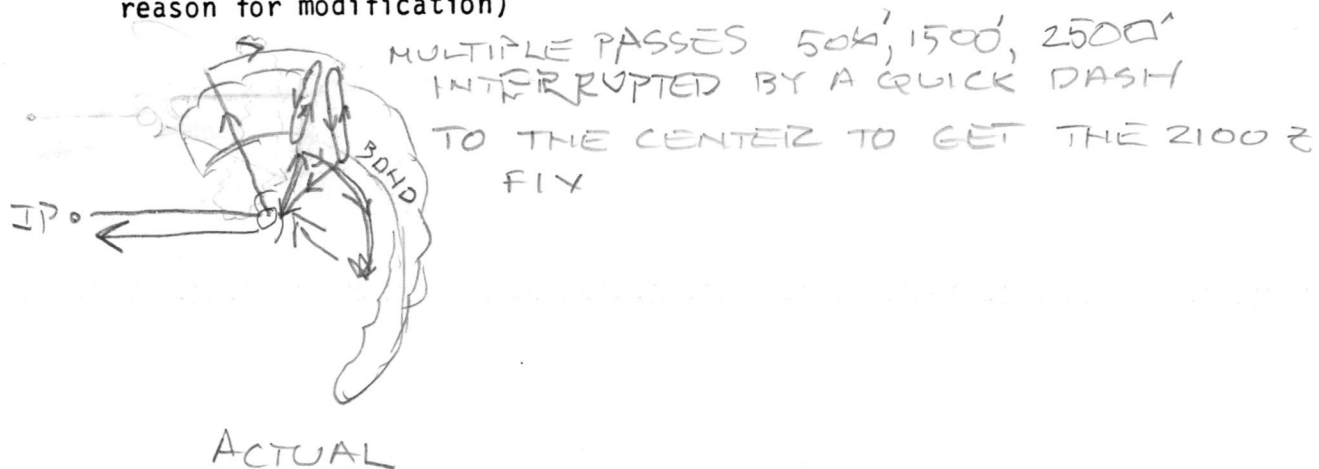
D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	↑	↑	↑	14
Radar	↑	↑	↑	14
Cloud Physics	↑	↑ ① ②	↓	14
Data Sys	↑	↑	↑	14
Omegasondes				
AXBT/AXCP				
Gust Probe				
Hot Film				
Photography				

① CLOUD PROBE ↓

② PRECIP PROBE FAILED SYSTEM ↓ AT 2253

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



DATE 08 Oct 85

FLIGHT 851008H

LPS WILLOUGHBY

Lead Project Scientist Event Log

28.3 (28.3) 27.4
71.5 71.15

EVENT	TIME*	POSITION	COMMENTS**
T/O	081610	MIA	
WIND CAL	1730	25.75 75.08	
IP	1747	25.86 74.14	AT 1500'
G	1821	26.50 72.12	999 MB MIN SLP TRACK OUT LLO
TURN	1836	26.51 71.42	HEADING BACK TO G TRACK 290
G -	1848		TRACK N FROM G (A LITTLE BUMPY)
WANDERING AROUND IN THE RAIN			
START INWARD ACROSS BAND	1940	28.3 71.5	CROSSING BAND ON TRACK 150
TURN BACK ACROSS BAND	1951	27.93 71.15	HEADING KOR 28.5 71.7
IP ACROSS BAND 500'	2004	28.45 71.69	5041
OUTBOUND	2014	27.90 71.46	↓
TURN	2030	28.66 72.00	CLIMB 2500 BACK TO G ACROSS BAND
END 2500'	2045 OR 50		AT 1500' TRACK TO G
G	2106	26.90 54 72.19 11	998 SLP TRACK 020 FROM G
AT 500'	2122		TRACK 380 ACROSS BAND
			TOO MUCH RAIN CLIMB TO 1500'
TURN	2147	29.10 71.84	INBOUND ACROSS BAND 1500' TRACK 180
TURN CLIMB	2211	27.76 71.96	N ACROSS BAND AT 2500'
TURN	2235	29.15 71.95	S ACROSS BAND AT 2500'
TURN	2253	28.04 71.89	TRACK ALONG INSIDE OF BAND → INDE

*Log times of all significant altitude changes, turns, and eye fixes

**New altitude, heading, center position, etc.

FLIGHT _____

LPS

Lead Project Scientist Event Log

[illegible]

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

**New altitude, heading, center position, etc.

ISABELLE

~~EST~~

FIX

08/0505 24° 14' 70" 59' 1004

T/O 08/160 11207 25° 08' 71° 29' 1003
11821 26.50 72.12 999

12106 26.90 72.19 998
08/2349 27.08 72.68 1000

LAND MIA 09/0132

WILLOUGHBY

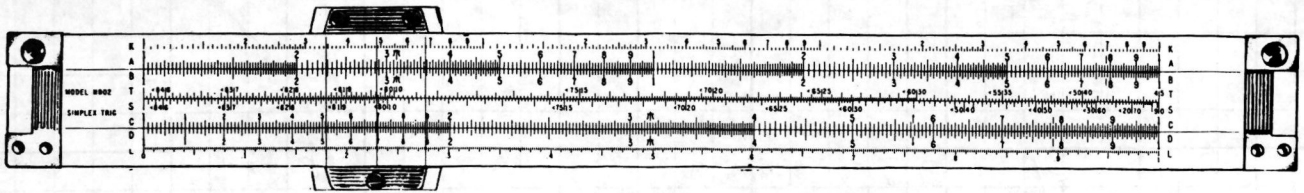
M. BLAIS

KONLER

R. BLAK

~~SZOKKE~~

SZOKKE



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