

19820914 HI-LPS

E.1 Lead Project Scientist (On-Board)

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

E.1.1 Preflight

- ✓ 1. Participate in general mission briefing.
- ✓ 2. Determine specific mission and flight pattern(s) for his aircraft.
- NA 3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with RFC flight director/meteorologist and CARCAH, unless briefed otherwise by field program director.
- ✓ 4. Contact NHRL members of crew to:

*Franklin
Lord
Willoughby
Adams*

 - a. Assure availability for mission.
 - b. Arrange ground transportation schedule when deployed.
 - c. Determine equipment status.
- ✓ 5. Provide supplementary briefing to specific crew.
- ✓ 6. Report status of aircraft, systems and crews to appropriate NHRL operations center.

E.1.2 In-Flight

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

E.1.3 Postflight

- _____ 1. Debrief crew.
- 03092 2. Report landing time, aircraft, crew and mission status to NHRL 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.

Adams

On-board Lead Project Scientist Checklist

DATE 14 Sept 1982

AIRCRAFT N42RF

FLT 820914 ^{5 Debbie}

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Adams</u>	Gust Probe	<u> </u>
Cloud Physics	<u> </u>	Omegasonde	<u>Willoughby/LORD/Franklin</u>
AXBT	<u> </u>	Sys Eng	<u>ZYSKO</u>
Hot Film	<u> </u>	Data Tech	<u>DeVivo</u>
Radar	<u>LORD</u>	EI Tech	<u>DuGranrut</u>
Flt Dir/Met	<u>Darby</u>	Other <u>()</u>	<u> </u>

Take Off 1805 Z Location KMIA Landing KMIA Location Z

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>14 Sept</u>	<u>2000Z</u>	<u>N 24.5</u>	<u>W 72.5</u>	<u> </u>
<u>"</u>	<u>2100Z</u>	<u>N 25</u>	<u>W 71</u>	<u>990 8DKTS</u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
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C. Mission Briefing

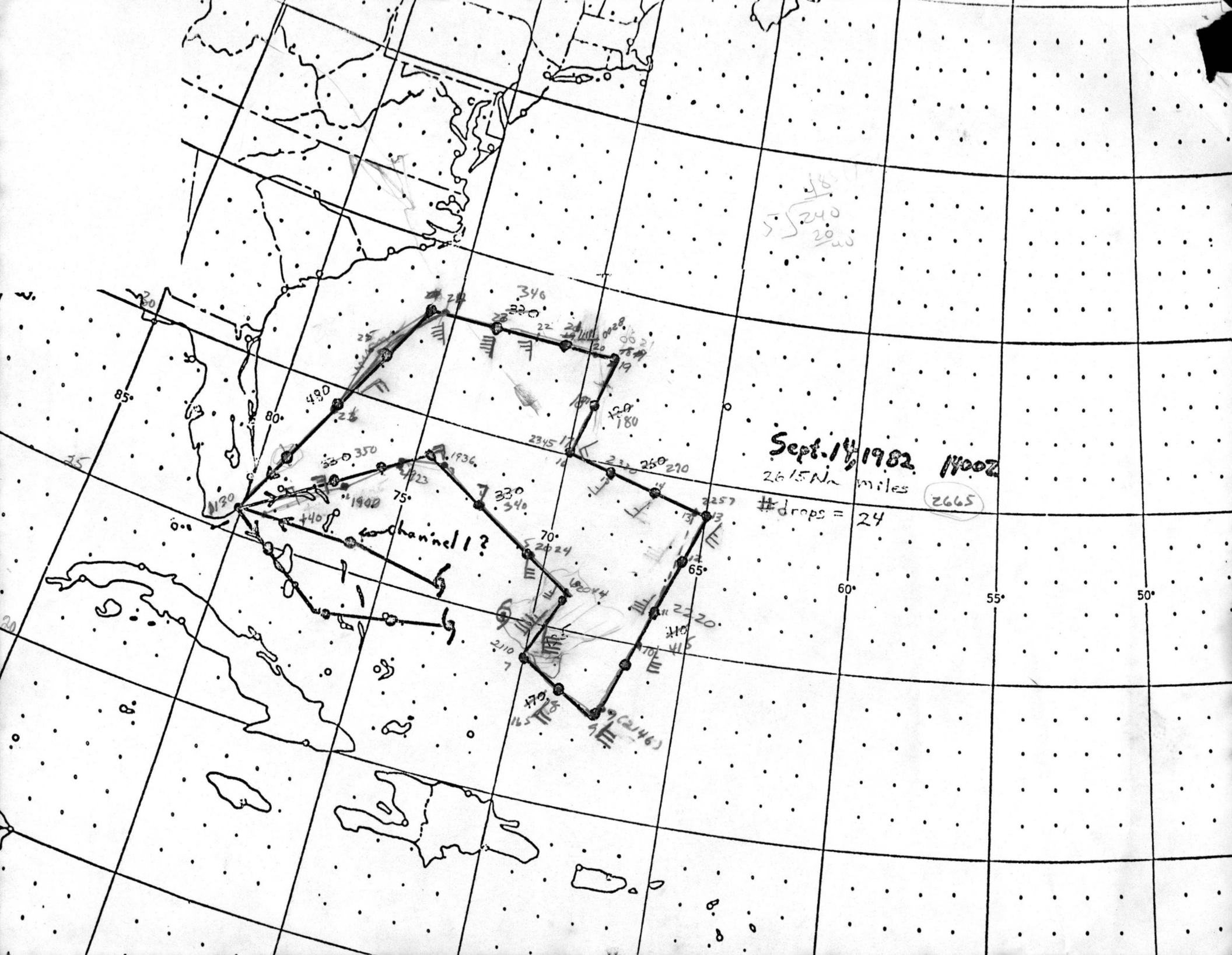
Adams

Form E-1
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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	✓	✓		
Cloud Physics	NA	NA		
Data Sys	✓	✓		
Omegasondes	✓	✓		
AXBT	NA	NA		
Gust Probe	NA	NA		
Hot Film	NA	NA		
Photography	✓			

REMARKS



Climb okay?
after drop?

log 2

DATE 14 Sept 1982

FLIGHT 820914
N42

LPS ~ Adams

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	HT	COMMENTS**
TAS CAL.	T: 1843 T: 1830 z	26.71N 77.90W	5890	TAS calibration en route to 1st drop. N43 reports bad Omega signals
Drop #1	190100	27.48N 76.91W	5886	Free of clouds - Good A,B signals Total signal quality poor PA 16950 Station D Omega signal lost.
Drop #2	192340	28.51N 75.20W	5880	Cu towers 1/2 n.m. to NW of track
Drop #3	193730 195200	28.70N 74.00W	5871	CH to 116.70 True then drop isolated small cumulus below climb to 19000' (PA)
Drop #4	200124	27.69N 72.10W	5876	Thin deck of cumulus ahead about 2 n.m. and about 7000 ft below aircraft.
Drop #5	202332 2035	26.74N 70.42W	5868	Dropped in stratus - No choice Turn left to TH 109.7 to get out of clouds
Drop #6	204403	26.04N 68.97W	5878	Still in the broad area of stratus Only two good Omega Stations } Nor. Dak. A little clearer at flight level w/ stratus deck 5 to 7000 ft below a/c
Drop #7 → Failed at 700 mb	210933 2115 CH to right around severe weather	24.43N 69.72W	5878	Clear! CH to 095.7 to new drop pt. #9 to miss air way.
Drop #8	213229	23.01 68.59	5894	Isolated, scattered cumulus 10,000 ft below. CH to 020° True
Drop #9	214616 T: 2157 Climb to 21000 ft (PA)	22.93 67.36	5904	Isolated, scattered below. still climbing during drop.
Drop #10	220030	24.18 66.91	5902	Isolated, scattered below Heading = 18.3
Drop #11	222025	26.02N 66.16W	7616	Isolated, scattered below Heading 007° True Almost dark outside
Drop #12	223743 T: 2245 Climb to 24000'	27.51N 65.69W	7584	Stratus cloud layer 10,000 ft below ~ 1000 ft thick? Dark outside.
Drop #13	225810 2256 Change heading to 280°	29.14N 65.61W	7618	Clear at flight level but undercast below St. Elmo's fire on the windshield
Drop #14	231353	29.42N 67.00W	7611	Clear at flight level undercast below
Drop #15	233020	29.71N 68.48W	7564	Broken stratus below No Omega winds
Drop #16	234720 Change heading to 020° True	30.06N 69.98W	7607	Dropped a back up sonde (ch 2)
Drop #17	235251	30.52N 69.82W	7607	Clear at flight level can't see below
Drop #18	000517	31.41N 69.53W	7593	Clear at flight level can't see below
Drop #19	001230	32.92N 69.04W	7568	Clear at flight level CH to 265 just before drop.
Drop #20	002500	32.92N 69.04W		

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

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

FLIGHT Debbie ODN
820914
N42

LPS v Adams

[illegible]

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