

19840902H1-LPS

On-board Lead Project Scientist Checklist

DATE 02 SEP 84

AIRCRAFT N42RF

FLT 840902H1

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	<u>WILLOUGHBY</u>	Gust Probe	<u> </u>
Cloud Physics	<u> </u>	Omegasonde	<u> </u>
AXBT/AXCP	<u> </u>	Sys Eng	<u> </u>
Hot Film	<u> </u>	Data Tech	<u>BURLISS</u>
Radar	<u>DORST/DODGE/KOHLER</u>	EI Tech	<u>JARUIC</u>
Flt Dir/Met	<u>PARRISH</u>	Other	<u> </u>

Take Off 02/1037

Location STU

Landing 02/1442 Location STU

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
<u>PCST 02/1200</u>	<u> </u>	<u>19 N</u>	<u>61.5 W</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>	<u> </u>
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>

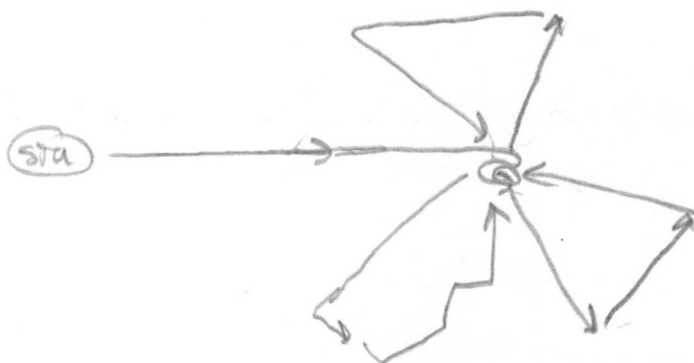
C. Mission Briefing

FLY VORTEX INTERACTION, OPTION II GET
1200Z, 1800Z FIX. T.D. "ARTHUR"

D. Equipment Status

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

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



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

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

E.1.2 In-Flight

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

TRUE ALTITUDE, IN DEGREES AND MINUTES OF , AND

DATE 02 SEP 84 LONGITUDE 61 OBSERVER WILLOUGHBY

Latitude: 20, 19, 18, 17, 16

Longitude: 63, 62, 61, 60

Observer: WILLOUGHBY

326/4.3

DATE 2 SEP 84

FLIGHT 840802 H

LPS WILLOUGHBY

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
TAKE OFF	02/1037	SJU	
	1130	18.87 62.23	1500 FT WIND 0520/9 M/S
TURN	1138	18.92 61.80	TURN TO 150 WIND 070/11
	1159	17.85 60.98	WIND 218/6.9
TURN	~1235	16.0 50.0	TURN TO 180 WIND 190/10 M/S
TURN	1258	17.5 59.0	TURN TO 288
G, TURN	1326	18.16 61.23	SLP 1010 → 025
TURN	1400	20.00 60.28	→ 270 WIND 99/5.8
TURN	1424	20.00 61.98	→ 152 WIND 073/10
G, TURN	1455	18.18 61.27	→ 239
TURN	1532	16.68 63.00	→ 135 SLP 1014 WIND 070/3.5
TURN	1548	15.97 62.29	→ 80 WIND 036/1.5
TURN	1600	16.04 61.91	070 WIND 257/2.0
TURN	1617	17.07 60.97	→ 345 WIND 233/9.5 M/S
G, TURN	1638	18.36 61.32	MIN SLP 1009 TRACK 045
TURN	1706	19.56 60.12	TRACK 225 WIND 077/12
G	1734	18.40 61.40	TRACK G → 270 MIN SLP 1009
FINAL POINT	1804	18.40 63.34	CLIMB
LAND	1842	SJU	

60
.4
.24

7-9.62
14.40

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

MOVEMENT 320°/4.5 KT

