# 19940924HI-LPS

#### E.2 Lead Project Scientist (On-Board)

#### E.2.1 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 AOC 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 AOC 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 (MGOC in Miami or FGOC at remote recovery location).

#### E.2.2 In-Flight

NA

- 1. Confirm from AOC flight director that satellite data link is operative (information).
- 2. Confirm camera mode of operation.
  - 3. Confirm data recording rate.
  - 4. Complete Form E-2.

#### E.2.3 Postflight

- 1. Debrief scientific crew.
- 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
- Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- 5. Determine next mission status, if any, and brief crews as necessary.
- 6. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

On-Board Lead Project Scientist Check List

811.14

Date	SEP. 24	Aircraft	N42RF	Flight ID	94092411

A. Participants

1.00	HRD	OAO		
Function	Participant	Function	Participant	
Lead Proj. Sci. Cloud Physics Radar Workstation Photographer Omegasonde	GAMALHE DODGE BURPEE	Flight Director Pilots Navigator Sys. Engr. Data Tech. El. Tech.	BOGERT KENNEDY, PLAYER STRONG ROLES	
AXBT/AXCP	9. Black J. LAWRENCE	Other	MC FADDEN	
Take-Off @ 1653 07	Location	Landing	Location Te P.W	

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
132/24	15.2	117.3		70kf
182	15.4	118.2		
02125	15.8	119.3		
02/26	17 N	121 N		

C. Mission Briefing fly a Phil of Jack. We well iel. Br d 0 1502 pense ·H 2.00 eor In Inner u 74 tion Ovto

D. Equipment Status

Equipment	Pre-Flight	In-Flight	Post-Flight
Aircraft	600 -		
Radar/LF	Gree		->
Radar/TA (Doppler)	Good	Pring At	
Cloud physics	OR	<u></u>	
Data system	OK	A	2
Omegasondes	MAYBEFLAKY	or stives -	2
AXBT/AXCP	OK I Tilalk		3
Workstation	NONE	11-2	
Photography	OK	Videos	rended

**REMARKS**:

Things went very well on this flight, 4 Said a prayer for Hos flight and God onswered it with one of the beast probby flights I we been on .

E. I. Proposed Flight Pattern (sketch or designate by number)



#### E. II. Actual Flight Pattern

As above, but with one great a paid of raligh legs on each averages N-S on N42RF E-W on NUBRE

#### Hurricane Recco Plotting Chart





Note: Label full degrees according to location of flight area.

#### Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes



Note: Label full degrees according to location of flight area.

"Olivia"

# Lead Project Scientist Event Log

24 Sept 1994 Date 94924 5

Flight 940924H1 LPS GAMACHE

	Time	Event	Position	Comments	
	1653	7/0	Piverto Vellorta		oa
	1837	ODW+LOD2dup	1748 11247	Began listening to 43's ODI	Idrop. loops
	1845	ODW listening	17°20 113 54	Listening in 1st dags still sove	1 gord.
	1852	Report term	17 8 114 23	15,7 118,3° 100 kt 955 mb	290 10/45
	1900		16 48 115 9'	We will switch to 10,000 A	42 to 19,000 A
	1905		1	118º16 1538 Jacks 1st	rocker fix
S. Ala	1905	Adjusting course	1641 11532	Storm For the Nithen expected.	
				1545 118 to Expedied ston	por.
	1929		1640 11735	Leveled out	
; 41	1934	IP	16'38' 117'52'	IP tracking 5	
	1940		16913 11754	XBT away entering Va	nibert
	and the second	and the second		XBT was good.	
	1943	+	1556 11756	100 kts or we ly h	nery
2:53	1746	6	1544 11758	954mb 1544 11750	10 <sub>.</sub> .
	1949	153311852'	1534 11756	\$ ~108 kts	Philseys
	1953	15°13/1751	->,~~	AXBTAND	Coolch?
	1957	Turn 3	1200 11756	Tumn O	saface
	1957			ODW Away	
3:12	2005	3	15 14' 11718'	Turn to 3450	
	2015		1549 11752	about 120 Kts may	
		9	1554 11803'	and the grade	

TA

2

2

373

Lead Project Scientist Event Log

Date 24 Sept 1994 Flight 940924141 LPS CAMACHE

Time	Event	Position	Comments
2247	5 site fayers	166 11820'	108K/5
2249	6	~ 1615 11819'	~948 mb
2251	N Side of eyend	1	119 hts
2302	Findish pattern	178 11820	
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1548 100,1355

Sep 24 1994

### Lead Project Scientist Event Log

Date 94 APC

Flight 940924111 LPS GAMACHE

Time	Event	Position	Comments	
10 2030	(4)	1628 11845	Tracking 220°	
2040	G	15 34 11857	Tracking 090°	
	6	15'54' 118'06'	94 9mb extrap PLSS	
2054		1554' 117 53'	~ K Both Bolks	Elgen
2059		1534 11730	AxBrauty BT lix	ohrgad
2103	0	1554 11714	BT only head a few good	o lala
2104		1 20 1	43 drops oow	Stopping
2110	D	1624 11727	heading 225 Biller	ald,
2119	B.	167/117.58	B7 Canuchel - Bad	Jone
2120		16 4 1183	~ 115 kts	
2126	(	1549 11819	105 ht wind may bel	indus
2134	3	1521 11846	tracking 115	
2142	(j)	153'118'11'	20° bonk Rul	
2146	9		heading N	
		1603 11816	9345 9475b	
	9		947,5ml 1+54150	av
2200		16/2 11812	115 kt may on N.	sid
2209	<b>I</b> P (1)	1644 11812	90-270 2 mare poses N-	5
2222	N symoll	16'14' 118'17'	117 Rts may	
2224	9	1 18 185	measured 948.5mb	
2235	$\bigcirc$	15 117 11818	heading N	

1653

210

# Lead Project Scientist Event Log

Date	Flight		LPS
Time	Event	Position	Comments
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		18/12/25/21/21	
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Fig. 9. Inner Core Structure and Evolution Experiment: Upper aircraft pattern. Fig. 10. Inner Core Structure and Evolution Experiment: Lower aircraft pattern.

- Note 1. AOC upper and lower aircraft fly 1-2-3-4-5-6-7-8-2 in their respective patterns (Figs. 9 and 10, respectively).
- Note 2. Each aircraft should be at the designated altitude upon reaching the IP and should maintain that altitude until point 8.

Note 3. True air speed calibration is required (Fig. C-1).

- Note 4. The patterns may be entered along any compass heading, but the upper aircraft pattern should always be rotated 90° counterclockwise from the lower pattern.
- Note 5. Aircraft may attempt to find a wind center on each pass, but should not "hunt" unless directed to do so. Track deviations should be kept to a minimum (10° or less).
- Note 6. Cross checks between the aircraft INE and hard reference points or radio navigation aids are essential.
- Note 7. During each pattern, the ODW drop in the eye should occur during the first pass through the center (a backup would be dropped in the second pass). During passes with ODW drops, the upper aircraft should be 5 min behind lower aircraft.
- Note 8. During downwind legs, Doppler radar should be operated in FAST (forward/aft scanning technique) mode. (Not applicable to aircraft with dual-beam antenna.)



NOAA 42 94092HHI Summary of Legs: 1746-175820 F/AST (SeaSurf on Ferry) 1926 - 1957 N-S (D 195747 - 200513 F/AST 2005 - 2031 SE-NW (2) 203114 - 203910 FLAST (2032-2036 data gap) 2039 - 2164 DOW -> E(3) 210414 - 211029 FLAST 211029 - 2134 NE -> SW(4) 213539 - 214430 FLAST 2144 S-> N, N-> S, S+N 3 pases (D-> (D) 232554 - 233041 FLAST (Sea Surf on return)