

19880914H2-LPS

Form E-2
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On-Board Lead Project Scientist Check List

Date 880914 H2 Aircraft 42RF Flight ID 880914H
Sept. 14, 1988

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>M. Powell</u>	Flight Director	<u>B. DAMIANO</u>
Cloud Physics	_____	Pilots	<u>D. TURNER GUNNOE</u>
Radar	_____	Navigator	<u>Gerish</u>
Doppler	_____	Sys. Engr.	<u>JARUF</u>
Photographer	_____	Data Tech.	<u>Jay Thompson</u>
Omegasonde	_____	El. Tech.	<u>BTODW ROJAS</u>
AXBT/AXCP	<u>P. BLACK</u> <u>L. SHAY</u>	Other	_____
Take-Off	Location	Landing	Location
<u>1715 WTC</u>	<u>MIA</u>	<u>0200</u>	<u>MIA</u>

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind
<u>14-12Z</u>	<u>20.5 N</u>	<u>86.9 W</u>	<u>~895mb</u>	<u>160 kt.</u>
<u>1830Z</u>	<u>20.9</u> <u>21.3 N</u>	<u>87.9 W</u>	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C. Mission Briefing

A/C will MAKE 37 AXBT/AXCP Drops 3-5° LAT from
center of Hurr. Gilbert roughly on SW-NE orientation.
All drops NW of storm from 5000'.

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Launch Pts., Dev. Smi.
5 min log Time & Location of Drops
1 min

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D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	_____	_____	_____
Radar	_____	_____	_____
Cloud physics	_____	_____	_____
Data system	_____	_____	_____
Omegasondes	_____	_____	_____
AXBT/AXCP	_____	_____	_____
Doppler	_____	_____	_____
Photography	_____	_____	_____

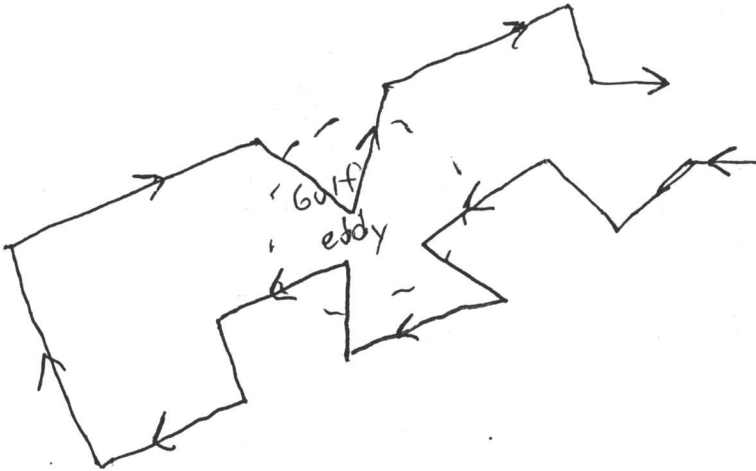
REMARKS: BT list 1/5 1 min past drop 4 min

- AXBT ONBOARD PRINTOUT ~~NOT~~ AVAILABLE (will try 15 min ^{After 1st Drop})
- NO RADAR Recording, TAIL RADAR off, LF on for NAV purposes.
Doppler off
- Drops from 5000', Depressurized
- AXCP Drops stopped After #6 @ 2048

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



Drop AXBTs,
AXCPS
at .2-.5° spacing,
higher resolution
at estimated eddy pos'n.
(see list of drop posns
and sketch - attached)

E. II. Actual Flight Pattern

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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 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 (MGOC in Miami or FGOC at remote recovery location).

E.2.2 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-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).
3. 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 OAO flight director.]
4. Determine next mission status, if any, and brief crews as necessary.
5. Notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

Lead Project Scientist Event Log

Date 9-14-88

Flight 880914H

LPS Powell

Time	Type	Event Drop	LAT	Position LON	Comments
1836					Descend to 5000' for drops
184613	BT	ch. 12	24°58.6'	88°03.7'	#1 drop Good
185406	BT	ch. 14	24°41.9'	88°39.5'	#2 BAD
1902					TURN WS up to 25Kt. in some outer bands
190248	BT	ch. 12	24°25.5'	89°19.5'W	#3 Good
191149	BT	ch. 14	24°54'	89°39'	#4 BAD
192045					TURN
192136	BT	ch. 16	25°22.1'	90°02.9'	#5 Good
192155	CP	ch. 14	25°21.4'	90°04.2'	#1 Good
192713	BT	ch. 12	25°09.4'	90°27.1'	#6 Good
193418	BT	14	25°54.0'	90°56.8'	#7 bad
	CP	16	25°52.8'	90°59.1'	#2 bad
193903	BT				TURN
194018	BT	14	24°39.1'	91°15.1'	#8 Good
194509	BT	14	24°31.1'	90°58.5'	#9 Good
195129	BT	16	24°19.5'	90°37.0'	#10 BAD
200046	BT	12	24°2.2'	90°16.1'	#11 Good
200105	CP	14	24°1.4'	90°17.6'	#3 BAD
200656	BT	16	23°48.5'	90°42.3'	#12 Good
201545	BT	14	23°32.5'	91°18.3'	#13 Good
201609	CP	16	23°33.5'	91°19.2'	#4 BAD

cells
190815 ESS 45-50 Gunwoe WS 48
1918 ESS 35-40 MF

194930 ESS 40-45 rain from outer bands

201035 ESS 50 Turn (looked) WS 52

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Time	Event	Position		Comments
		LAT	LDN	
202323	BT 12 12	23° 53.9'	91° 33.3'	#14 Good
202911	BT 16	24° 11.6'	91° 43.7'	#15 Good
203327	BT 14	24° 15.3'	92° 00.8'	#16 Good
203400	CP 12	24° 14.2'	92° 03.1'	#5 Good
204104	BT 16	24° 00.0'	92° 30.9'	#17 Good
204744	BT 14	23° 44.6'	92° 50.7'	#18 Good
204759	CP 12	23° 43.8'	92° 50.1'	#6 BAD
205440	BT 12	23° 23.4'	92° 33.8'	#19 BAD
210140				TURN from SE to SW
210239	BT 14	22° 58.4'	92° 16.9'	#20 Good
210715				TURN Printer back to 10s
211025	BT 16	22° 35.6'	92° 44.3'	#21 Good
211630				outer band
211845				TURN SW to NW
212001	BT 12	22° 16.0'	93° 19.0'	#22 Good
213805	BT 14	23° 05.8'	93° 53.8'	#23 Good
				in field Tops to 6000'
215639	BT 16	24° 00.7'	94° 27.3'	#24 Good
	BT			#25
220822	BT 12	24° 23.8'	93° 53.6'	#25 BAD
222233	BT 12	24° 50.5'	93° 13.1'	#26 Good

2031 ESS ~40kt.

205800 45kt ESS

(getting Low on paper)

2108345kt SE WIND N
N 25-30 GUNWIC
205°
185°
125°

213450 25-30ESS

TURN@215630

215725 15kt ESS TURN

21.3 88.8
WNW 15
140 WATCH Tampico-Pt Arthur

Lead Project Scientist Event Log

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Time	Event	LAT	Position	LONG	Comments
223000					TURN to 105°
223101	BT 14	25° 04.0'	92° 48.2'		#27 Good
223847	BT 16	24° 53.2'	92° 21.2'		#28 Good
224651	BT 14	24° 41.4'	91° 54.2'		#29 Good
225245-					TURN to 015 TRK
225343	BT 12	24° 34.0'	91° 33.1'		#30 Good WS 53
225956	BT 16	24° 54.0'	91° 29.4'		#31 Good
230653	BT 12	25° 17.9'	91° 29.8'		#32 Good
231537	BT 14	25 48.2	91 24.7		#33 Time OK LA, LO off Good
232908	BT 16	26° 05.9'	90° 46.3'		#34 Good
234320	BT 12	26° 24.4'	90° 02.0'		#35 BAD
235450					TURN to TRK 145
235750	BT 12	26° 30.4'	89° 18.5'		#36 Good
000803	BT 12	26° 01.2'	88° 57.7'		#37 ← Turn to 092 LAST BAD DROP!

2309 ESS 45 Turned WS 52