19890903HI. AXBT

E.4 Air-Sea Interaction Scientist (On-board)

The on-board Air-Sea Interaction Scientist (ASIS) is responsible for data collection from airborne expendable bathythermographs (AXBT's), airborne expendable current profilers (AXCP's), and sea surface temperature radiometers (if these systems are used on the mission). Detailed calibration and instrument operation procedures are contained in the air-sea interaction (ASI) manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

E.4.1 Preflight

_____ 1. Determine the status of equipment and report results to the on-board Lead Project Scientist (LPS).

_____ 2. Confirm mission and pattern selection from the on-board LPS.

_____ 3. Select the mode of operation for instruments after consultation with the HRD/ASIS and the on-board LPS.

_____ 4. Complete appropriate preflight checklists as specified in the ASI manual and as directed from the on-board LPS.

E.4.2 In-Flight

_____ 1. Operate the instruments as specified in the ASI manual and as directed by the HRD/ASIS unless superseded by directions from the on-board LPS.

E.4.3 Postflight

_____ 1. Complete summary checklist forms and all other appropriate checklist forms.

_____ 2. Brief the on-board LPS on equipment status and turn in completed checklists to the LPS.

_____ 3. Debrief as necessary at the appropriate operations center (FGOC or MGOC).

_____ 4. Determine the status of future missions and notify appropriate operations center (FGOC or MGOC) as to where you can be contacted.

AXBT/AXCP Check Sheet Summary

Flight _____

		Number
(1)	Probes dropped	_____
(2)	Failures	_____
(3)	Failures with no signal	_____
(4)	Failures with sea surface temperature, but terminated above thermocline	_____
(5)	Probes which terminated above 250 m, but below thermocline	_____
(6)	Probes used by channel no . . . CH12	_____
	. . . CH14	_____
	. . . CH16	_____
	. . . CH__	_____

NOTES

Flight No. _____
Takeoff time _____
Storm _____

AXBT/AXCP Contract No. _____
Landing time _____

AXBT AND AXCP CHECK SHEET

AXCP/ AXBT#/ Type	Chan- nel#	Lot#	Predicted Drop Time (HHMMSS)	Actual Drop Time (HHMMSS)	Predicted Lat Deg	Predicted Lat Min	Predicted Long Deg	Predicted Long Min	Actual Lat Deg	Actual Lat Min	Actual Long Deg	Actual Long Min	Surface Temp, AXBT	Surface Temp, IRT	MLD (m)	Comments

*Type M=Magnavox H=Hermes S=Sippicar

AXCP LOG

Flight Number: 890903H
Storm Name: Gabrielle
Storm Direction/Speed: 280 @ 17 kt
Takeoff Time: _____
Landing Time: _____

Leg #	Out/In	RA m	PMIN mb	VMAX m/s	RMAX km	Time PMIN	Time VMAX	Time End Pass
		500	938	108		1820		

Leg/ Drop No.	Tube No.	Channel No.	Probe Type Slow	Probe Type Reg.	Ground Speed	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Status Good	Status Bad	Comments
P EYE 1							181256	16 11.1	5043.4		✓	77 kt N.G.
2	PF						1820 10	16 34.1	5028.1	✓		27.(
3							182454	16 42.2	5013.4	✓		108 kt 26.8
4							182900	1648.6	5001.2	✓		95 kt 26.8
5							183426	1656.4	4947.1	✓		85 kt 26.8
6	F-F						183855	1703.4	4934.2		✓	80 kt N.G. turn
7	FF-						185001	1712.3	5018.2		✓	100 kt smooth N.G.

camera 28 mm

1802 swells 90° to wind
1808 #3 65 kt
#4
1811 ±5.6 swell & wave

1827 #12 105 kt

1836 43 lost engine, climb 5000 ft
1837 radar down, 1846-up
1852 wind max dop @ 2.5 km

AXCP LOG

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Storm Name: Gabrielle
Storm Direction/Speed: 280 @ 17 kt
Takeoff Time: _____
Landing Time: _____

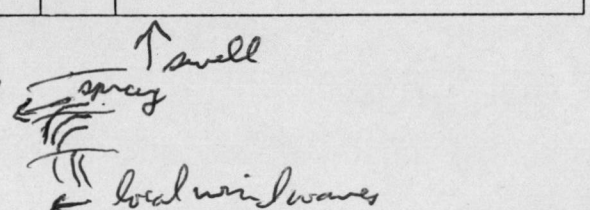
Leg #	Out/In	RA m	PMIN mb	VMAX m/s	RMAX km	Time PMIN	Time VMAX	Time End Pass
			936			1446		

Leg/ Drop No.	Tube No.	Channel No.	Probe Type Slow	Probe Type Reg.	Ground Speed	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Status Good	Status Bad	Comments
1	FF					1900	1721.3	5858.9		✓		95 kt 27.4
												no launch, continuity
												on remaining BT's
												can't launch them
												we are done!

FL

1908 SF 39.7 90
09 43.0 75
40.8 74
1912:47 38.8 55
19 16 36.9 77

2051 SW side Hdg 243
wave front bent by swell so it prop A/c & breaks at right angle to wind - sends out plumes of spray parallel to wind along breaking wave crest



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Takeoff time _____
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