19890905HI - 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 Operate the instruments as specified in the ASI manual and as directed by the HRD/ASIS unless superseded by directions from the on-board LPS.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.

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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	Channel#	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: 890905H
Storm Name: Gabrielle
Storm Direction/Speed: 305/11
Takeoff Time: 1716Z
Landing Time:

Leg #	Out/In	RA m	PMIN mb	VMAX m/s	RMAX km	Time PMIN	Time VMAX	Time End Pass
		6158						

500 mb

Leg/ Drop No.	Tube No.	Channel No.	Probe Type Slow	Probe Type Reg.	(kt) Ground Speed (IAS)	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Status Good	Status Bad	Comments
ODW also	1		16		(208)		181711	21.6	62 31.0	✓		28.1 RD = 22.2 dry T_D = -22
ODW also	2		16		296		200435	28 59.4	64 58.8		✓	N.G. 1-5 light on
ODW also	3		14		(200) 297		205935	28 57	69 59.6	✓		28.4 " RD = 21.3 RH moist T_D = -17
ODW also	4		16		(206)		2227	28 48	68 21		✓	

RH = 20-30%

RH = 60-70%

#1 SFMR cal ~ 1800Z - 10 m/s - SFMR reading low ~6 m/s
visual sfc wind ≈ 20 kt - lots of white caps
#2 SFMR cal 1901 12.0 m/s
1904 10.5 m/s 4 photos of sea #1 85 mm, #2 50 mm
#3 85 mm, #4 28 mm