19991014I1 - AXBT

E.4 Boundary-Layer Scientist

The on-board boundary-layer scientist (BLS) is responsible for data collection from AXBTs, AXCPs, AXCTDs, BUOYs, 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/BLS and the on-board LPS.

_____ 4. Complete appropriate preflight check lists 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 on-board LPS.

E.4.3 Post flight

_____ 1. Complete summary check list forms and all other appropriate check list forms.

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

_____ 3. Debrief as necessary at MGOC or the hotel during a deployment.

_____ 4. Determine the status of future missions and notify MGOC as to where you can be contacted.

Form E-4

AXBT
~~AXCP Leg~~

Flight Number 991014I
AXBT/AXCP Contract Number
Take-Off Time 1850
Landing Time
Storm IRENE
Storm Direction/Speed NNE 9 [illegible]

Leg Number	Out/In	RA (m)	PMIN (mb)	VMAX (m/s)	RMAX (km)	Time PMIN	Time VMAX	Time End Pass

Leg/ Drop #	Tube #	Channel #	Probe Type (MLD) Slow	Probe Type Reg	~~Ground Speed~~ SST	Drop Time (HHMMSS) Launch	Latitude (deg min)	Longitude (deg min)	~~Status~~ ~~Good~~ 266	~~Bad~~ 204	Comments
1	BT	16	—								Receive Not turned on! McMillan
2	↓	12	-		27.7	20:00:48	24°21'	8231	-	-	SE of Dry Tortugas, questionable noisy
3		16	57		28.1	20:07:09	24°01'	82°14'	72	184	good drop
4		12	-		28.5	20:11:51	23°46'	82°01'	-	-	questionable, Noisy
5		16	67		28.4	20:15:56	23°34'	81°51'	112	220	Clean, no noise
6		16	60		28.2	22:15:00	23°14'	82°24'	-	-	Weyewall Drop
7		12	45		28.6	232215	2354	8205	?	?	Ne quad
8		16	?		28.6	024620	2359	8417	?	?	NE Offshore
9		12	40		28.5	025250	2427	8406	?	?	"
10	↓	16	[illegible]		28-29	025811	2450	8357	?	?	Ch 1 SST 28.6 (?) Ch 2 " 29.4 (?)
11		12	40		28-30	030452	2518	8344	?	?	30.20 | 28 SST
		16									

FF = 45 / MLD but no 28,30

RH = 85%

TA = 25.2

(!)

backup for bad drop 4

Noisy...

Big diff in SST w/ 2 Channels

23
56

8205

Form E-4

AXBT and AXCP Check Sheet

Flight Number ____________________ AXBT/AXCP Contract Number ____________________

Take-Off Time 18:56 ____________________ Landing Time ____________________

Storm IRENE ____________________ Storm Direction/Speed ____________________

AXCP/ AXBT #/Type	Channel Number	Lot Number	Drop Time (HHMMSS)	Lat. Deg.	Lat. Min.	Long. Deg.	Long. Min.	Surface Temp. AXBT	Surface Temp. IRT	MLD (m)	Comments

AXBT/AXCP Check Sheet Summary

Flight 990104I **Aircraft** 43RF **Operator** Cira

	Number
(1) Probes dropped	10
(2) Failures	
(3) Failures with no signal	
(4) Failures with sea surface temperature, but terminated above thermocline	
(5) Probes that terminated above 250 m, but below thermocline	
(6) Probes used by channel number CH12	
CH14	
CH16	
CH__	

NOTES: