19991002II_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.

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AXBT/AXCP Check Sheet Summary

Flight 991002I **Aircraft** 43 **Operator** P. BLACK

	Number
(1) Probes dropped	30: 14 BT, 8 CP, 8 CTD
(2) Failures	2: 1 CP, 1 CTD – probes hung at ofe; launched flaps up, instead of flaps down
(3) Failures with no signal	0
(4) Failures with sea surface temperature, but terminated above thermocline	2
(5) Probes that terminated above 250 m, but below thermocline	—
(6) Probes used by channel number CH12	
CH14	
CH16	
CH__	

NOTES:

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AXBT and AXCP Check Sheet

P. BLACK

Flight Number 991002F

AXBT/AXCP Contract Number

Take-Off Time 1739Z

Landing Time

Storm

Storm Direction/Speed NW 5 kt

AIRT corr ≈ 2.2°C

	AXCP/ AXBT #/Type	Channel Number	~~Lot~~ Serial Number	Drop Time (HHMMSS)	Lat. Deg.	Lat. Min.	Long. Deg.	Long. Min.	Surface Temp.	AXBT IRT	MLD (m)	Comments
IP 1.	CTD	12	9808 0161	183703	27	30	86	00		25.8	15	good
2.	BT	12		184000	27	26	86	37	28.1	25.8	23	4155-4210 good
3.	CP	12	9808 1041	185046	27	20	87	26		26.3	~~55~~ 60	good
4.	BT	16		185257	27	18	87	36	28.5	26.3	~~55~~ 60	~~5145-5143~~ good
① → 5.	CTD	12	9808 0144	190147	27	13	88	16		26.6	80	ok
6.	BT	16		191202	26	58	89	01	28.7	26.3	60	ok
7.	CP	12	9807 1181	191752	26	49	89	26		26.2	50	ok
8.	BT	16		192345	26	42	89	43	28.2	26.4	45	ok
② → 9.	CTD	14	9808 0181	194135	26	09	91	06		26.5	45	ok
10.	BT	12		195208	25	40	91	29	28.3	26.5	45	ok
11.	CP	14	9807 1158	195455	25	30	91	29		26.4		ok
12.	BT	12	~~9808 0000~~	200218	25	00	91	29	28.5	26.4	45	ok
13.	CTD	12	9809 0202	201204	24	19	91	30		26.4		ok
14.	BT	16		201134	23	40	91	29	28.7	26.3	50	ok
15.	CP	12	9807 1072	202340	23	06	91	31				ok
16.	CTD	14	9808 0165	203855	22	33	91	38			50	noisy <600m ok
③ → 17.	BT	16		205553	23	22	92	22	28.2	26.3	45	ok
18.	CP	12	9808 1032	210335	23	44	92	43			~~55~~ 55	ok
④ → 19.	CTD	16	9808 0175	211955	24	30	93	26			NG	probe hung at 0°C; noisy <500m
20.	BT	12		213319	24	24	92	29	28.6	26.5	53	
~~21.~~	~~CTD~~	~~12~~										
22.	BT	16		220005	24	10	90	34	28.7	26.4	57	
23.	CP	12		220811	24	06	90	04				N.G. - DUD
24.	BT	16		221926	24	00	89	20	28.4	25.6	55	

⑤ → 25. ~~CTD 12~~
BT 16

6 CTD
6 CP
11 BT

Cracked wind shield!
2223Z
Going home.

AXCP Log

Flight Number _____ AXBT/AXCP Contract Number _____

Take-Off Time _____ Landing Time _____

Storm _____ Storm Direction/Speed _____

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		Ground Speed	Drop Time (HHMMSS)	Latitude (deg min)	Longitude (deg min)	Status		Comments
			Slow	Reg					Good	Bad	

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AXBT and AXCP Check Sheet

B. BLACK

Flight Number 991002F

AXBT/AXCP Contract Number

Take-Off Time 1739Z

Landing Time

Storm

Storm Direction/Speed

TEH12 external left

	AXCP/ AXBT #/Type	Channel Number	Lot Number	Drop Time (HHMMSS)	Lat. Deg.	Lat. Min.	Long. Deg.	Long. Min.	Surface Temp.	AXBT IRT	MLD (m)	Comments
(5) → 25.	~~BT~~	16		222730	24	08	88	52				ok
26.	CP	14		223841	24	32	88	13				ok
27.	BT	16		224736	24	51	87	45	28.5	26.3	60	ok
28a. 28.	~~CTD~~ BT	12 16		225213	25	00	87	29			60	ok
				230157	25	20	86	53	28.4	26.4	45	ok
29.	CP	14		230618	25	29	86	37				ok
(6) → 30.	CTD	12		231133	25	41	86	20			40	ok
31.	BT	14										
32.	BT	12										
(7) → 33.	CTD	12										
34.	BT	16										
35.	CP	14										
(8) → 36.	CTD	12										
(9) → 37.	BT	12										
38.	BT	16										
39.	CP	12										
(10) → 40.	CTD	16										
41.	BT	12										
(11) → 42.	CTD	12										
43.												
44.												
45.												
46.												
47.												
48												

totals

8 CTD
8 CP
14 BT
30 total

AXCP Log

Flight Number _____ AXBT/AXCP Contract Number _____

Take-Off Time _____ Landing Time _____

Storm _____ Storm Direction/Speed _____

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		Ground Speed	Drop Time (HHMMSS)	Latitude (deg min)	Longitude (deg min)	Status		Comments
			Slow	Reg					Good	Bad	