

19991004I1-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.

AXBT and AXCP Check Sheet

P Black

Flight Number 991004 I

AXBT/AXCP Contract Number _____

Take-Off Time 1810Z

Landing Time _____

Storm _____

Storm Direction/Speed _____

SFMR ready
low by factor of
2:15 kt when dry &
be 30 kt

AXCP/ AXBT #/Type	Channel Number	Lot Number	Drop Time (HHMMSS)	Lat. Deg. Min.	Long. Deg. Min.	Surface Temp. AXBT IRT	MLD (m)	Comments
1. CTD	14		190602	26 50	86 00	moist < 600 m	43	in mod rain 35 dBZ OK
2. CP	12		191716	26 37	86 46	28.5	40	no rain OK
3. CP	16		192500	26 27	87 16	28.3	50	OK
4. BT	12		193330	26 19	87 51	28.1	65	OK
5. CTD	14		194232	26 07	88 27		85	OK
6. BT	16		194824	26 00	88 51	28.3	60	OK
7. CP	12		195154	25 55	89 06	28.3	50	4F out OK
8. CP	14		200122	25 43	89 46	28.3	55	wind broke at 400 m OK
9. CTD	16		200758	25 33	90 07	28.3	55	OK
10. BT	12		201907	25 03	89 36	28.3	45	OK
11. BT	16		203450	24 29	88 39	28.5	45	OK
12. BT	12		205057	23 47	87 43	27.7	25	OK
13. CP	12		210312	23 42	86 51			NG DVD probe OK
14. CTD	14		210940	24 02	86 31			NG no sig. OK
15. CP	16		212354	24 31	86 01	28.9	50	OK
16. BT	12		213920	24 48	85 44			DVD no sig may not have landed OK
17. CTD	14		212507	24 01	86 29		70	OK
18. BT	12		215036	25 28	85 03			DVD - noisy sig (probably due to climb-out)
19. BT	16		214425	25 06	85 26	27.9	40	also probe may be hung up at surface

IP

1

2

3

GPS #1 OK

GPS #2 OK

GPS #3 OK

GPS #4 OK

GPS #5 N.G.

GPS #6 OK

AXBT/AXCP Check Sheet Summary

Flight _____ Aircraft _____ Operator _____

Number

- (1) Probes dropped 19 8 BTs 5 CTDS 6 CPs
- (2) Failures 4 (2 BT, 1 CP; 1 CTDS)
- (3) Failures with no signal 2 (bts)
- (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: