

28-567

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.

SFMR Notes

~ 1745 Z changed 6.96, 7.22 offset coeffs... added 5K to each
~ 1814 " 5.06 " " " (-29.0; 80.4)
subtr. 2K (-30.9)

Nasty behavior in heavy rain → no rain solution; all Tb lumped into w.s.

AXBT/AXCP Check Sheet Summary

Flight 020929I Aircraft 43 Operator _____

Number

- (1) Probes dropped _____
- (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:

AXBT and AXCP Check Sheet

Flight Number 020929I
Take-Off Time 1700 UTC
Storm Lili

AXBT/AXCP Contract Number 0.8
Landing Time _____
Storm Direction/Speed 280/08

From
Nicks
Recent

Splash
time

AXCP/ AXBT #/Type	Channel Number	Lot Number	Drop Time (HHMMSS)	Lat. Deg. Min. Decimal	Long. Deg. Min. Decimal	Surface Temp. AXBT IRT	MLD (m)	Comments
1	12		184643	20 61	81 43	28.8		
2	14		185110	20 39	81 59	30.5		High Bias ~+1.5
3	12		185535	20 03	81 45	28.9		
4	14		190008	19 76	81 43	30.6		High Bias ~+1.5
5	14		190445	19 28	82 05	30.6		
6	12		190934	19 10	82 15	?		+1.6
7	14		191825	18 74	82 57	31.5	+2.5	Start Degress/Decimal
8	12		192630	18 98	82 03	28.8		
9	14		193405	19 22	81 56	31.5		
10	12		194142	19 17	81 10			Dnd
11	12		194538	19 59	80 85	29.0		
12	14		194920	19 71	80 64	29.4		D-value = 123
13	12		195713	19 75	80 17	28.8		
14	14		200504	20 18	79 70	30.6		
15	12		200841	20 03	79 62	28.6		
16	14		201234	19 43	79 67	30.6		
17	12		201906	19 47	79 27			??
18	14		202113	19 32	79 34	30.5		
19	12		202558	19 02	80 10	28.8		
20	14		203020	18 72	80 26	28.8		
21	12		203725	18 24	80 53	28.7		
22	14		205318	18 42	79 50	28.7	~	
23	12		210439	17 57	78 65			
24	14		211537	18 80	77 84			Center

24 14 212110 18.74 77.45
25 12 213431 18.61 76.87 29.0 (29.2)
26 14 214612 18.44 75.76 29.3 (28.9)
27 12 215106 18.82 75.76 29.5

Unbr.
Reversible!

AXCP Log

AXBT/AXCP Contract Number _____

Landing Time _____

Storm Direction/Speed _____

[illegible][illegible]