

19980821H1-AXBT

E.4 Boundary-Layer Scientist (On-Board)

The on-board boundary-layer scientist (BLS) is responsible for data collection from AXBT's, AXCP's, BUOY'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/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 Postflight

- ☒ 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 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.

AXBT/AXCP Check Sheet Summary

Flight 980821 H

	Number
(1) Probes dropped	<u>9</u>
(2) Failures	<u>1</u>
(3) Failures with no signal	<u>1</u>
(4) Failures with sea surface temperature, but terminated above thermocline	<u>0</u>
(5) Probes that terminated above 250 m, but below thermocline	<u>0</u>
(6) Probes used by channel number	
..... CH12	
..... CH14	
..... CH16	
..... CH_	

NOTES

The lone failure was a partial misfire from BT launch bay. Each of BTs was 'co-landed' w/ GPS scale. Each was launched along 'Fy 4' pattern (similar to flight 980820H). One exception is First BT which I suggested be landed

in Outer Loop wind region RD ~ 400m
SSTs were consistently 29.2 or above. (Quite high though well for Buixindystorm) Also rel deep MC with all MLDs ~ 45-50m. MCs explain SSTs near 29 despite 40-50m.

AXCP Log

Flight Number _____

Storm Name _____

Storm Direction/Speed _____

Take-off Time _____

Landing Time _____

[illegible][illegible]