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

Flight Number ___030821I___   AXBT/AXCP Contract Number _____

Take-Off Time ___17:00___   Landing Time _____

Storm ___CBLAST TEST #2___   Storm Direction/Speed _____

12 sonde sequence {

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
1/43	16		181509	26	37	85	56	28.9		Comb w/ GPS
2/43	12		181704	26	27	85	65	28.5		BT only
3/42	16							28.9		42 BT/Sono/GPS
4/42	12		183550					X		— Dud —
5/43	16		183804	25	01	86	14	29.0		BT only
6/43	12		184012	25	71	86	24	29.3		BT + GPS