

19990916H LAXBT

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/AXCP Check Sheet Summary

Flight _____ Aircraft _____ 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:

1st Line : Proposed
launching
2nd + 3rd : Actual
launching

Form E-4
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AXBT and AXCP Check Sheet

Flight Number 990916H

AXBT/AXCP Contract Number _____

Take-Off Time _____

Landing Time _____

Storm FLOYD

Storm Direction/Speed 25/15

AXCP/ AXBT #/Type	Channel Number	Lot Number	Drop Time (HHMMSS)	Lat. Deg. Min.	Long. Deg. Min.	Surface Temp. AXBT IRT	MLD (m)	Comments
①	1A		48326	33 07	79 04			41004 w/6rs
②	1A		50213	33 17	78 26	25	77	20 mi SW of eye SW eyewall w/6rs
③			51443	33 52	77 40	26	?	NE eyewall w/6rs
④			52211	34 14	77 14	326		50 km NE of ③ In between eyewall & rainband
⑤			63806	33 29	77 34	26.4		100 km E of Coast
⑥			65230	33 17	76 31	5?		33°12' 76°34'
⑦			70040	34 25	76 31			Stratiform crop High flight level ~ 90 knts Stratiform, still high FL winds 100 km N of ⑥ ~ 90 knts
⑧			75146	33 14	76 32			Repeat ⑤ on ⑥ Replace ⑥ which was bad sonde

84850 33°17' 76°33.2' 29.0° Stratiform
FL = 75 knots

AXCP Log

AXBT/AXCP Contract Number _____

Landing Time _____

Storm Direction/Speed _____

[illegible][illegible]