

Mod 4 3 day

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 031205F Aircraft 43 Operator C109

Number

(1) Probes dropped

10

(2) Failures

0 (Several noisy, though...)

(3) Failures with no signal

0

(4) Failures with sea surface temperature, but terminated above thermocline

0

(5) Probes that terminated above 250 m, but below thermocline

0

(6) Probes used by channel number

CH12

5

CH14

—

CH16

5

CH__

—

NOTES:

ch 12 much noisier
Signal (v ch 16) ... also,
30 km spacing is marginal...
50 km better (less signal
interference)

AXBT and AXCP Check Sheet

Flight Number 031205I

AXBT/AXCP Contract Number _____

Take-Off Time 15:18.7

Landing Time _____

Storm TS Odette

Storm Direction/Speed ~015 / 5 kts

[illegible]