19990913ILAYBT

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-Fligh	t -
	1.	Operate the instruments as specified in the ASI manual and as directed by the on-board LPS.
E.4.3	Postflig	ht
	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 _____

		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	2.0
	CH14	
	CH16	
	CH	

NOTES

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Timesplash.

Splash.

Time MLD. #1.5

- Dioptime Splash time IT MLD Time *1.5

HURR Floyd.

Storm

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AXBT and AXCP Check Sheet

P Contract Number
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Surface Actual **Predicted** Actual **Predicted Predicted** Actual MLD AXCP/ Temp. Long. Lat. Drop Time (HHMMSS) Long. Lat. Drop Time (HHMMSS) AXBT IRT Comments Lot Deg. Min. (m) AXBT#/ Channel Deg. Min. Deg. Min. Deg. Min. Number Number Туре 19057:07 AYBY 30 secs 233 74-106 20:23:18 2026:00 3350c3 Mb difference do 1°C 24.06 20:36:40 20:34:01 o read 88 28 21:21:47 21333:19 24 27 30 123 26.3 225 deflevence \$.1°C 21:30:00715 MI Good 2223 :28 Readings 260 123 11:12 A couple of cold blues in the n 2227 109 343 Good. 247773 295 26.8 09 28:38 22:26:01 20 9507:52 283 23 7306 23 79 deference 8.20 0:04:36 00: 07: 25 also about 0314354 cold largered 145 73 6000 24 50 0:00:275 07 litterence 6.12 0511542 00:14: 3 13.7 25 74 57-9 28-6 delberence 6.20 0:37:18 00: 39: 49

^{*}M = Magnavox; H = Hermes; S = Sippican.

AXCP Log

Flight Number		
Storm Name	4	
Storm Direction/Speed		
Take-off Time		
Landing Time		-

Leg #	Out/In	RA (m)	PMIN (mb)	VMAX (m/s)	RMAX (km)	Time PMIN	Time	Time End Pass
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1 and	45		Probe	Туре						Status		
Leg/ Drop	Tube	Channel			Ground Speed	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Good	Bad	Comments
No.	No.	No.	Slow	Reg.	Speed	Drop Time	J. 0p					
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