19991015I1-AXBT

## 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.)

	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.

Form E-4 Page 3 of 3

**AXCP Log** 

Flight Number 99/0/5	AXBT/AXCP Contract Number					
Take-Off Time 19,34	_ Landing Time					
Storm IRENE	Storm Direction/Speed	NNE.7				

Leg Number	Out/In	RA (m)	PMIN (mb)	VMAX (m/s)	RMAX (km)	Time PMIN	Time VMAX	Time End Pass
	ar ara Salaman							
		2.4						

Leg/ Drop #		Channel #	Probe Type Slow Reg	Speed	Drop Time (HHMMSS)	Latitude (deg min)	Longitude (deg min)	Status Good Bad 26 20	Comments	
	06.8			NA	ಎಂಇನ್	2341	8139	WA	5m MLD	) >
	255				002841	2501	8040	NKA	FlaBay	10
1	76	-8		11	P1037	2535	8003	NA	FWFW	) ve
à	77	9		M.	991996	2438	8106	MA	SMKFI	Sa
2	7.5			IJ	202666	2469	8090	MA	MLRFI	The state of the s
2	7.9-	26		V.	23444	2453	8129	WA	Swafston	~ C 00
28	. 3			75	108500	7623	7944	77	Gulfsdea	Co
						•				80
				•						ADI 1

Form E-4 Page 2 of 3

## **AXBT and AXCP Check Sheet**

Flight Number	AXBT/AXCP Contract Number				
Take-Off Time	Landing Time				
Storm	Storm Direction/Speed				

AXCP/ AXBT #/Type	Channel Number	Lot Number	Drop Time (HHMMSS)	Lat. Deg. Min.		Long. Deg. Min.		Sur Te AXB	face mp. T IRT	MLD (m)	Comments
		16									
		75-74									
		1.00									
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					1985						
					1.70						
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Form E-4 Page 1 of 3

## **AXBT/AXCP Check Sheet Summary**

	Flight	Aircraft	t Operator _		
	Number				
(1)	Probes dropped				
(2)	Failures	0			
(3)	Failures with no signal	0			
(4)	Failures with sea surface te	mperature, b	ut terminated above t	hermocline	NA
(5)	Probes that terminated above	ve 250 m, bu	t below thermocline		
(6)	Probes used by channel nu	mber C	CH12		
			CH14	<u> </u>	
		C	CH16		energica and
		· · · · · · · · · · · · · · · · · · ·	DH		
NO	TES:				