

Boundary-Layer Scientist

The boundary-layer scientist (BLS) is responsible for data collection from AXBTs, AXCPs, AXCTDs, buoys, and SST 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 or initial.)

Preflight

- _____ 1. Determine the status of equipment and report results to the lead project scientist (LPS).
- _____ 2. Confirm mission and pattern selection from the LPS.
- _____ 3. Select the mode of operation for instruments after consultation with the HRD/BLS and the LPS.
- _____ 4. Complete appropriate preflight check lists as specified in the ASI manual and as directed from the LPS.

In-Flight

- _____ 1. Operate the instruments as specified in the ASI manual and as directed by the LPS.

Post flight

- _____ 1. Complete summary checklist and all other appropriate forms.
- _____ 2. Brief the LPS on equipment status and turn in completed checklists 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 Sonobuoy Check Sheet Summary

Flight _____ Aircraft _____ Operator _____

Number

(1) Probes dropped

18

(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 CH-12

4

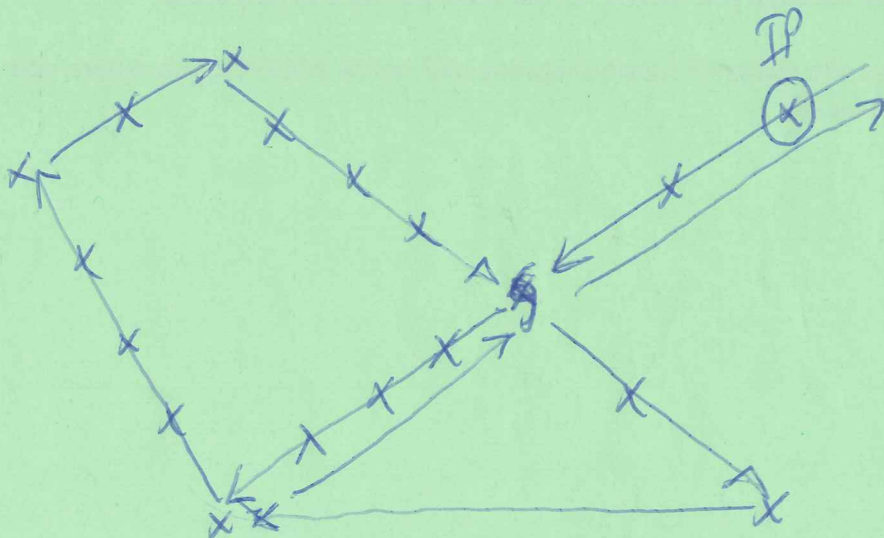
CH-14

CH-16

14

CH-__

NOTES:



AXBT and Sonobuoy Check Sheet (revised 6/23/04)

Flight Number 20050822I Storm Rita Storm Direction/Speed 285/8

Take-Off Time 1325 Landing Time _____

Drop #	Channel Number	Drop Time (HHMMSS)	Latitude (Decimal)	Longitude (Decimal)	Splash Time (HHMMSS)	Sfc Temp. AXBT	MLD (m) (#secs x 1.5)	Comments
1	16	142627	26.39	87.44	142907	29.0	75	Tapes on @ 1423 UTC
2	16	143855	25.80	88.11	144125	29.0	?	Combo/GPS (Noisy BT)
3	16	144902	25.29	88.64	145113	28.2	50	Center
4	16	150141	25.03	88.98	—			Dud
5	12	150940	24.66	89.38	151208	28.4	40	Combo/GPS
6	16	151546	24.36	89.71	151802	29.2	45	Combo/GPS
7	16	152258	24.02	89.88	152520	29.6	45	
8	16	155114	24.22	87.46	155334	28.8	60	
9	16	160102	24.71	88.00	160326	28.7	45	Tape Change @ 1607
10	12	162657	25.68	89.09	162915	28.9	45	Tapes on @ 160954
11	16	163504	26.08	89.52	163715	28.4	40	Combo
12	12	164210	26.43	89.91	164440	28.8	30	Combo
13	16	164854	26.61	90.30	165109	29.3	45	Combo
14	12	165336	26.32	90.63	165553	29.3	45	
15	16	165856	25.97	90.89	170125	29.3	40	
16	16	170813	25.20	90.68	171030	28.9	30	

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AXBT and Sonobuoy Check Sheet (revised 5/23/04)

Flight Number _____ Storm _____ Storm Direction/Speed _____

Take-Off Time _____ Landing Time _____

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