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). 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 LPS.

_____ 4. Complete appropriate preflight check list.

In-Flight

_____ 1. Operate the instruments 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 and any data tapes to the LPS.
[**Note**: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]

_____ 3. Debrief as necessary at base of operations.

_____ 4. Determine the status of future missions and notify MGOC as to where you can be contacted.

AXBT and Sonobuoy Check Sheet Summary

Flight ID _____ **Boundary-Layer Scientist** _____

Storm or Project Name _____

	Number of
(1) Probes dropped	_____
(2) Failures	_____
(3) Failures with no signal	_____
(4) Failures with SST but terminated above thermocline	_____
(5) Probes terminated above 250 m but below thermocline	_____

		Number of
(6) Probes used by channel number	CH-12	_____
	CH-14	_____
	CH-16	_____
	CH-__	_____

NOTES:

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

Flight Number 20180820HZ Storm Lane Storm Direction/Speed _____

Take-Off Time 1424Z 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	12	160748Z	14° 47'	152° 4'	16 09Z	27.8C		
2	12	1706Z						eyewall no SST/data
3	12	1832Z						eyewall no data/SST
4	14Z think					26-27		uncertain
5	12					27.5		beginning of circles in EP

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

Flight Number _____ Storm _____ Storm Direction/Speed _____

Take-Off Time _____ 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