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 (revised 6/23/04)

Flight Number 080831I Storm Gustav Storm Direction/Speed 307/14kt

Take-Off Time 2121 UTC 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	203109	25.07	85.57	missed data b/c of plotting problems wasn't updating			SE 105 nm
2	12	204100			204300	29°C	45 m	inbound
3	12	205100			—	—	—	inbound
4	12	210110				23.5°C	0m	outbound
5	12	211114			2113	28.5°C	40 m	outbound
6	12	212357				28.5°	25 m	NW point 105nm
7	12	215713				28.5°	35 m	SW 105 nm
8	12	2218				28.0°	50 m	SW eyewall Barn Damaging special
9	12	2226				27.0°	30 m	eye
10	12	225556				28.5°	25m	NE 105 nm
11	12	2342				28.0°	0m	N of storm, spotty
12	12	0016				28.0°	40 m	N of storm.
13	12	0103				28.5	40m	N of storm
14	12	0149				28.5	30 m	N of storm
15	12	0156				28.0	30 m	NW, RMW
16	12	0222				16.0	—	ASCAT overpass