

Boundary-Layer Scientist

The on-board 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 and initial.)

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.

In-Flight

- ☒ 1. Operate the instruments as specified in the ASI manual and as directed by the on-board LPS.

Post flight

- ☐ 1. Complete summary checklist forms and all other appropriate check list forms.
- ☐ 2. Brief the on-board 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 040922H Aircraft 42 Operator M. Black

Number

Jeanne

(1) Probes dropped

16

(2) Failures

1 Full, 1 partial, 1 bias

(3) Failures with no signal

11

(4) Failures with sea surface temperature, but terminated above thermocline

1

(5) Probes that terminated above 250 m, but below thermocline

14

(6) Probes used by channel number

CH-12

CH-14

8

CH-16

8

CH-__

NOTES:

3 Sonobuoy (Ch. 12)
dropped

AXBT's worked well away from
heavy precip

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

Flight Number 040922 H Storm Jeannie Storm Direction/Speed 240/4

Take-Off Time 1544 Landing Time _____

[illegible]

AXBT Log

Flight Number 040922H

Take-Off Time 1544

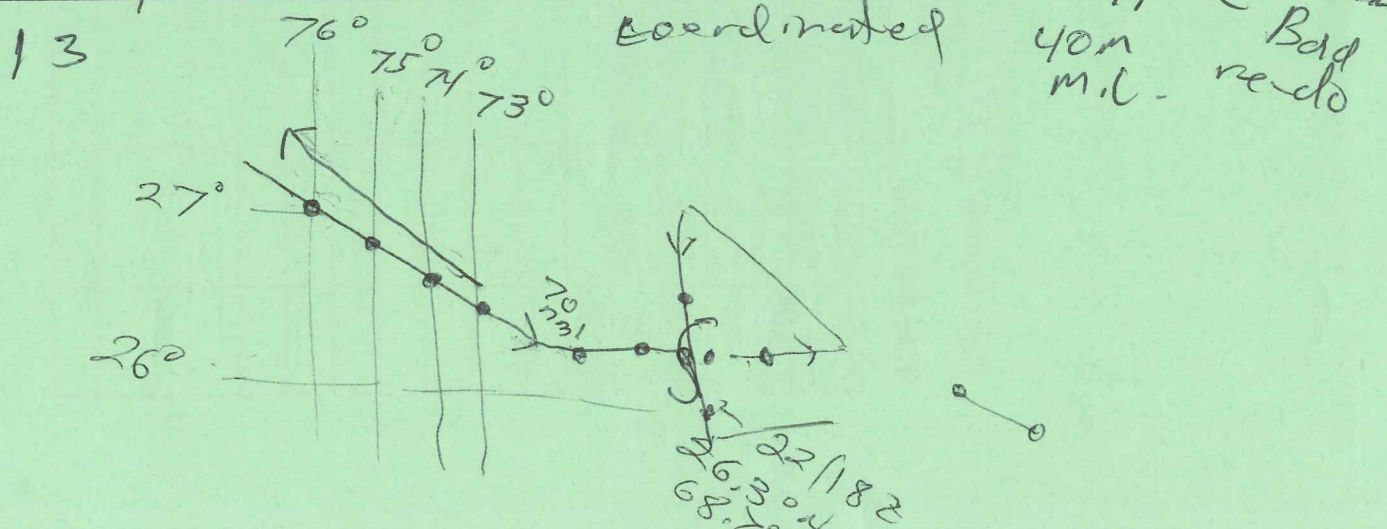
Landing Time 0148

Storm Jeanne

Storm Direction/Speed 180/04

FCST to turn west

Leg/ Drop #	Channel #	Probe Type		Launch Time (HHMMSS)	Latitude (decimal)	Longitude (decimal)	Status		Comments
		Slow	Reg				Good/	Bad	
1	16			170843	27.20	75.96	✓		28.0°C ~400 nm, west
2	14			172025	27.06	75.00	✓		27.5°C ~333 nm, west
3	16			173247	26.90	74.00	✓		28.0°C, 45m ~300 miles
4	14			174509	26.65	73.00			27.8°C 240 miles
5	16			181800	26.16	70.56			26.7°C
6	14								
7	16			183430	26.15	69.37			26°C
8	14			1844	Sonobuoy eye				
9	16			184317	BT	eye			25.9°C
10	14			190220	BT	cast eye wall			22°C (bad)
11	16			190220	190450	outside cast eye wall			27°C 45m
12	14			195304	26.48	68.95	N eye wall		22°C N
13	16			200732	25.58	68.96	South Eye		27.6°C
14	14			205840	25.48	68.89			27.5°C



SFMR
w/ birds
SFMR
w/ 8 m/s

w/ SFMR
sonde
22 m/s

33 m/s

28 m/s

30 m/s

30 m/s
SF

25 m/s

Bad
after
1215
30 m/s

30 m
m.l.
29 m/s

25 m.m.l.

22°C (bad?)

27°C 45m

22°C N

27.6°C

27.5°C

40m

m.l. Bad

redo

Coordinated

22/182
26.30N
68.70W