

19980830I1-AXBT

Form E-4
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AXBT/AXCP Check Sheet Summary

Flight 980830T

~~Bonnie~~ Danielle

	Number
(1) Probes dropped	<u>15</u>
(2) Failures	<u>4</u>
(3) Failures with no signal	<u>3</u>
(4) Failures with sea surface temperature, but terminated above thermocline	<u>1</u>
(5) Probes that terminated above 250 m, but below thermocline	<u>0</u>
(6) Probes used by channel number	
..... CH12	<u>5</u>
..... CH14	<u>5</u>
..... CH16	<u>1</u>
..... CH_	<u>1</u>

NOTES

NE, E+SE of storm we saw coolest SSTs ranging between 25.1-25.7. This general direction (E) was where the 'core cool' from Bonnie seemed to be located from avail AVHRR. In addition, traditionally coolest temps are E (+S) of the storm. N, W + S temps were warmer ^{generally} raised between 26.5-27.5. Another interesting observation is that the thermocline rapidly drops off 6-7°C just below the ML base. This dropoff occurs over ~70m. We were seeing sea temps ~19-20°C ~100m depth. Did not see this on Bonnie flight

E.4 Boundary-Layer Scientist (On-Board)

The on-board boundary-layer scientist (BLS) is responsible for data collection from AXBT's, AXCP's, BUOY's, 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.)

E.4.1 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.

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 Postflight

- ☐ 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 the appropriate operations center (FGOC or MGOC).
- ☐ 4. Determine the status of future missions and notify appropriate operations center (FGOC or MGOC) as to where you can be contacted.

AXBT and AXCP Check Sheet

Form E-4
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Flight Number 980830I
Take-off Time 19:32:35
Storm Danielle

AXBT/AXCP Contract Number _____
Landing Time _____

AXCP AXBT#/ Type ch	Channel Number	Landline Lot Number	Splash Predicted Drop Time (HHMMSS)	Mid and Actual Drop Time (HHMMSS)	Predicted Lat. Deg. Min.	Predicted Long. Deg. Min.	Actual Long. Deg. Min.	Actual Lat. Deg. Min.	Actual Long. Deg. Min.	Surface Temp. AXBT IRT	MLD (m)	Comments
1/12	1	20:36	20:18:25	39:00	27.38	75.31	E/W 27.7	28.6	53m	100 mile E-W leg. pro		capt rec
2/12	between 3-4	20:56:45	20:58:56	20:59:15	27.29	74.22	E/W 25.2	26.9	32m	middle of eye		(1000 ft) Ta=25.2
X 3/14	between 5-6	21:04:26	Dead!							middle of eye		(1000 ft) Ta=25.2
4/16	7	21:12:18	21:14:15	14:49	27.39	73.07	E/W 25.5	25.1	51m	50 mile mark east of eye		Ta=25.5
5/14	9	22:11:38	22:13:38	14:01	28.35	74.09	N/S 25.7	27.0	33m	In very dry slot between bands		
X 6/16	10	22:20:04	22:20:30	Dead!						50 mile mark just inside		45 DBZ
7/12	13	22:22:35	22:31:28	Dead!						min N eye		45 DBZ
8/14	14	22:35:30	22:38:00	38:22	26.57	74.09	N/S 26.0	26.4	33m	S eye all (w/ convection/shut)		
9/16	17	23:23:15	23:25:06	25:27	27.25	74.33	E/W 26.9	27.6	31m	50 mile - Dry slot		
10/12	18-19	23:31:27	23:33:28	34:52	27.46	74.08	N/S 25.8	26.6	33m	50 mile - Dry slot		
11/14	20	23:46:40	23:48:37	49:00	28.24	72.23	E/W 25.4	25.4	35m	50 mile - Dry slot		
X 12/10	24	00:43:40	00:45:00	Dead!						50 mile - Dry slot		
13/12	25-26	00:50:50	00:54:22	00:54:42	28.1	74.15	N/S 25.3	27.1	30m	50 mile - Dry slot		
14/14	27	00:58:28	01:00:20	01:00:47	27.57	74.03	N/S 25.9	26.5	40m	50 mile - Dry slot		
15/16	28	01:09:23	01:11:28	01:11:51	27.19	73.28	N/S 26.2	25.7	19m	50 mile - Dry slot		

M = Magnavox; H = Hermes; S = Sippican

Very thick
clouds!
19m

AXCP Log

Flight Number _____

Storm Name _____

Storm Direction/Speed _____

Take-off Time _____

Landing Time _____

[illegible][illegible]

AXBT and AXCP Check Sheet

Flight Number 98083011
Take-off Time 19:32:38 Z
Storm Danielle

AXBT/AXCP Contract Number _____
Landing Time 3:37:52 Z

AXCP/ AXBT#/ Type	Channel Number	Lot Number	Predicted Drop Time (HHMMSS)	Actual Drop Time (HHMMSS)	Predicted Lat. Deg. Min.	Predicted Long. Deg. Min.	Actual Lat. Deg. Min.	Actual Long. Deg. Min.	Surface Temp. AXBT IRT	MLD (m)	Comments
1	12			203820					28.6	65	Ta = 27.7
2	12		205645	205832					26.8	30-40m	Ta = 25.2
3	14		210436	210							Ta = 25.5
4	16		211255	211410 211455			27 39.4	73 7.0	25.1	45-55	Ta = 25.5
5			221153	221322 221400			28 34.9	74 9.1	27.0	30-40	
6	16		22:20:30				28 2.2	74 8.8		Dead	
7	12		22:27:47	22:31:10 22:31:35			27 32.5	74 8.6	26.8	35-45m	
8	14		22:36:17	22:38:00 22:38:25			26 57.2	74 8.8	26.4	30-35m	
9	16		22:23:11	22:25:05 22:25:27			27 13.8	70 4.4	27.6	30-35m	
10	12		23:31:30	23:33:18 23:33:50			27 3.6	74 7.5	26.7	30m	
11	14		23:46:18	23:48:36 23:49:00			28 28.8	73 24.1	25.4	36m	
12	16		00:44:00	00:46:14 00:46:40			28 33.0	74 50.9		Dead	
13	12		00:51:15	00:54:35 00:54:44			28 9.1	74 24.0	27.1	30m	
14	12		0:58:29	1:00:21 1:00:51			27 51.2	74 2.6	26.5	46m	
15	16		1:09:24	1:11:20 1:11:50			27 2.1	70 30.3	25.6	30-35m	

*M = Magnavox; H = Hermes; S = Sippican.

center of
SW eye wall
close to eye

AXCP Log

Flight Number _____

Storm Name _____

Storm Direction/Speed _____

Take-off Time _____

Landing Time _____

[illegible][illegible]