

19990803HI-AXB

Form E-4
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AXB and AXCP Check Sheet

Flight Number 990803HI
 Take-off Time 13:30Z
 Storm Air sea (Pre storm)

AXB/AXCP Contract Number _____
 Landing Time _____

AXCP/ AXB#/ 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. AXB	MLD (m)	Comments
Type	chan	Depth	splash time	end MLD time	lat lon	20 15 °C	SST	MLD	20°		
BT	23	24	?	?	26515050						Data spike down
"	16	25	18:13:27	13:54	27059131	128 245	29.6	10	40		leg 4-5
"		26	18:25:50	26:00	26145123	60 180	29.8	15	30		> active eddy deep cur
"		27	18:38:10	38:15	2536 5108	80 210	30.2	9	37		
"		28	18:45:24	45:34	2551 9048	54 136	30	15	-		Cold Cur of eddy
"		29	18:55:19	55:29	2616 9015	67 144	30	15	27		Cold "
"		30	19:14:00	14:02	2657 8916	172 300	30.2	33	60		Warm eddy
"		31	19:23:10	23:20	2722 8840	188 290	29.7	18	110		"outside eddy"
"		32	19:37:20	37:45	2754 8749	222 342	29.9	37	105		core hole
"		33	19:45:34	45:47	2737 8715	280 29.6	20	72			"
"	12	34	19:59:27	59:46	2704 8701	20 30.1	32	50			S. of Maskel Not L.C
"	16	35	20:09:39	10:07	2630 8727	160 270	30	42	73		

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

~~AXCP~~ Log

Flight Number 99080314
 Storm Name _____
 Storm Direction/Speed _____
 Take-off Time _____
 Landing Time _____

Leg #	Out/In	RA (m)	PMIN (mb)	VMAX (m/s)	RMAX (km)	Time PMIN	Time VMAX	Time End Pass

Leg/Drop No.	Tube No.	Channel No.	Probe Type		Ground Speed	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Status		Comments
			Slow	Reg.						Good	Bad	
Type	can	Drift	Lat	Lon	50kTime	enrMLD Time	MLD	SST	20°C	150	260	
1st	36	36	26	8705	20:16:38	17:00	33	30.2	240	350	130	in L.C (S of HasKell)
"		37	2409	8556	20:38:15	39:00	67	29.8	255	405	128	
"		38	2341	8648	20:50:15	20:50:30	22	29.9	200	345	110	7-8 leg
"		39	2408	8605	21:02:20	21:02:55	58	29.8	260	420	142	died @ 15.5°C
"		40	2434	8516	21:16:37	16:50	27	30	190	290	120	8-9 leg (stall). Further west
"		41	2452	8547	21:28:34	25:54	30	29.8	260	-	120	
"		42	2512	8628	21:36:45	37:19	50	30.2	290	-	165	
"		43	2536	8617	21:43:07	43:42	52	30-	250	375	135	9-10 leg
"		44	2555	8549	21:51:04	Died		30-		Died after	10 sec	cond
"		45	2602	8538	21:54:30	Died		30.1		"	"	"
"		46	2622	8506	22:03:35	03:50	22	29.7	90	180	30	
"		47	2700	8404	22:20:10	20:16	10	30.1	66	-	20	last (mud)

BT/AXCP coral (pp2)

AXCP Log

Flight Number 99080314
 Storm Name _____
 Storm Direction/Speed _____
 Take-off Time _____
 Landing Time _____

Leg #	Out/In	RA (m)	PMIN (mb)	VMAX (m/s)	RMAX (km)	Time PMIN	Time VMAX	Time End Pass

Leg/Drop No.	Tube No.	Channel No.	Probe Type		Ground Speed	Predicted Drop Time	Actual Drop Time	Latitude	Longitude	Status		Comments
			Slow	Reg.						Good	Bad	
Type	Chan	Proff	Lat	Lon	SP/SH TIME	2d MLD time	MLD	SST	20°C	20°C	ASL	
BT	12	13	2515	8924	16:05:32	16:06:06	15m	30.3	-	137	217	out of cold core feature
"	16	14	2400	8855	16:26:30	16:26:40	15m	28.9	-	40	170	begin leg 2-3
"	12	15	2419	8824	16:34:35	16:34:38	5m	28.8	-	64	172	close to Loop current
"	16	16	2421	8810	16:40:08	16:40:51	64m	29.6	-	160	300	in loop now
"	12	17	2448	8728	16:48:28	16:49:09	54m	29.6	-	250	380	descend to 5K
"	16	18	2515	8649	16:59:20	16:59:30	30m	29.9	205	321	-	pt 3 start out. (core loop)
"	12	19	2529	8728	17:08:20	17:08:47	40m	29.7	175	285	-	first 5K drop
"	16	20	2548	8812	17:19:20	17:19:20	51m	29.9	156	270	-	still loop
"	16	21	2608	8901	17:32:47	17:33:16	44m	29.4	116	200	300	AXCP Landed just prior
"	1	22	2613	8945	17:42:50	17:43:05	22m	28.9	45m	90m	185	cool water, S boundary of
"	1	23	2645	9025	17:54:42	17:55:00	27m	29.0	-	-	-	to #21

Barrel
 very
 sleep
 1. Hill
 me
 to #21
 low surface
 soft
 should be
 further N

AXBT and AXCP Check Sheet

Flight Number 990803H
 Take-off Time 13:30Z
 Storm Air Sea (Pre Storm)

AXBT/AXCP Contract Number _____
 Landing Time _____

AXGP/ AXBT#/ Type	Channel Number	Drop Est. Number	Drop Time (HHMMSS)	Drop Time (HHMMSS)	Lat. Deg. Min.	Long. Deg. Min.	Actual Lat. Deg. Min.	Actual Long. Deg. Min.	Surface Temp AXBT #11	MLD (m)	Comments
Type	depth	Drop#	Splash time	end MLD Time	Lat Deg. Min.	Long Deg. Min.	20°C Lat Deg. Min.	15°C Long Deg. Min.	SS (MLD)	26°C	
BT	12	1	14:21:49	14:22:47	21.14	85.30	20.0	182	30.0	38	missed splash
BT	16	2									missed all
BT	12	3	14:36:00	14:36:24	21.15	85.43	113	270	29.7	30	Died in MC
"	16	4	14:44:04	14:44:30	21.16	85.43			29.5	33	net well def
"	12	5	14:53:25	14:54:06	21.16	85.00	158	277	29.7	30	well mixed MC (const dist/dz)
"	16	6	15:04:42	15:04:58	21.16	85.00	117	206	29.7	30	well mixed 2 layer structure
"	12	7	15:21:04	15:21:11	21.14	90.22			30.5	10m?	In crazy Turb D? mud 0500
"	16	8	15:32:44	15:32:58	21.14	90.14	90	211	29.4	21m	South leg begins 1-22
"	12	9	15:37:47	15:38:29	21.14	90.05	184		29.7	63m	Deep 20°C eddy edge Deep MC well mixed
"	16	10	15:45:28	15:45:43	21.14	89.54	190	337	29.8	22m	shallow ~30m
"	12	11	15:50:	DND	21.15	89.44					
"	16	12	15:58:15	15:58:21	21.15	89.52	37m	127	29.6	9m	Cold eddy S. of w c structure

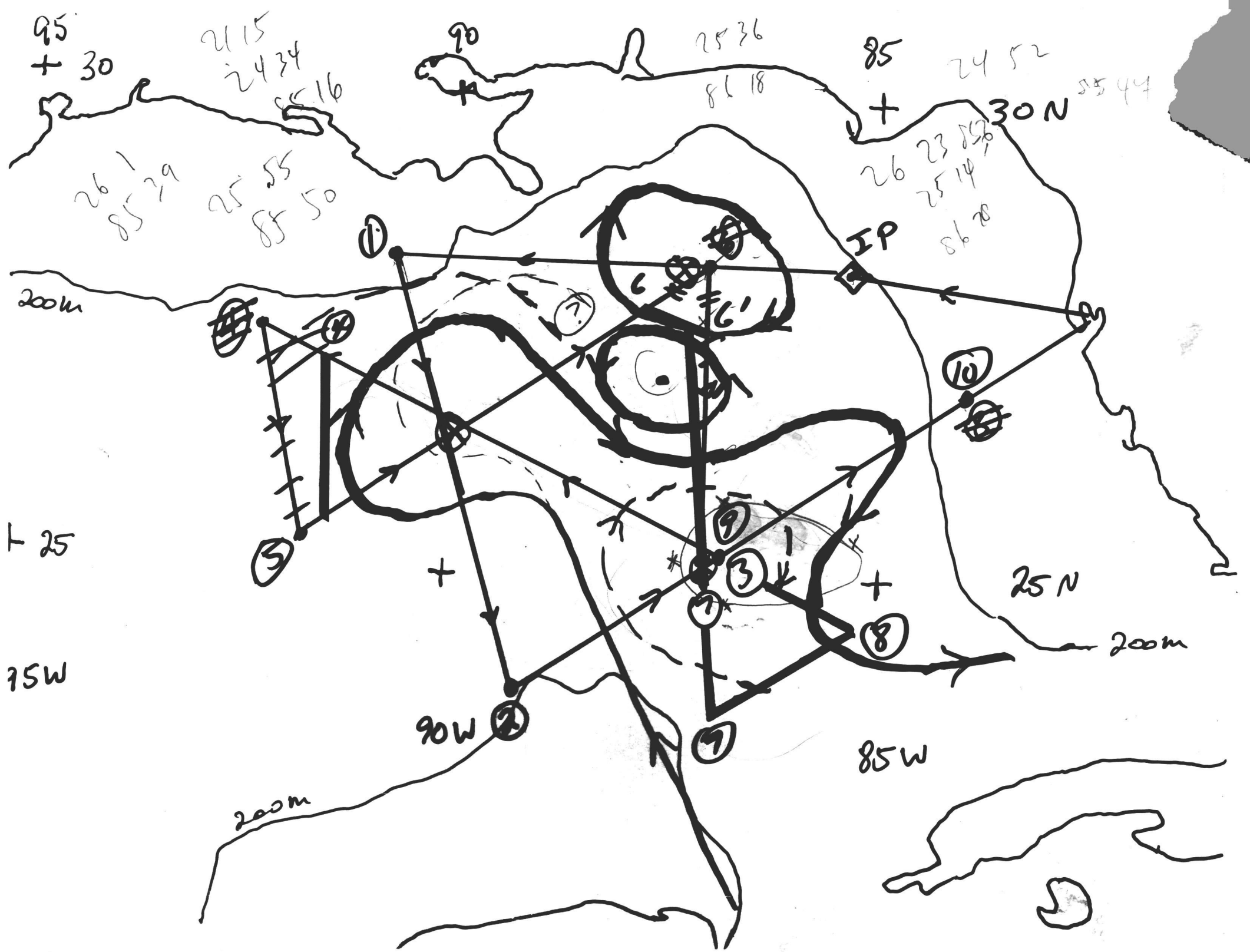
*M = Magnavox; H = Hermes; S = Sippican.

Dead list: Drop 2, 11, 44, 45 (SST only)
 Modulated list: 23, 24, 25, 46, 47 (Data system Down/off (?))

9/47
 Bad/missing

Drop # (from AXBT Log)	Splash Time	SST	MLD ^m	26°C (E)	20°C (E)	15°C (E)
1	141845	30	18	31	98	195
3	143332	29.7	36	57	130	290
4	144135	29.5	28	—	—	—
5	145105	30.0	60	89	162	283
6	150212	30.1	27	52	130	222
7	151839	30.7	5	47	—	—
8	152923	29.4	135	106	180	298
9	153530	29.9	162	145	255	—
10	154303	29.8	12	116	216	363
11	155630	29.5	3	20	41	134
12	160432	30.3	14	34	64	131
13	162350	29.8	15	30	65	185
14	163211	28.5	2	14	68	186
15	163749	29.6	78	106 98	171 171	313
16	164551	29.7	271	143	273	—
17	165650	29.9	—	166	328	—
18	170637	29.7	195	148	295	—
19	171752	30.1	230	144	285	—
20	173047	29.5	173	127	226	320
21	174125	29.3	15	47	92	198
22	182425	29.5	12	26	69	181
25	183637	29.9	4	36	79	203
26	184350	30.0	15	24	49	135
27	185342	30.2	18	33	71	159
28	191118	30.4	176	160	273	—
29	192125	29.8	8	118	201	312
30	193542	29.9	33	107	227	—
31	194433	29.6	97	75	164	284
32	195749	30.0	30	53	126	223
33	200759	30.0	42	73	165	277
34	201506	30.3	208	153	250	364
35	203640	29.9	—	140	270	—
36	204900	29.7	15.2	112	202	358
37	210200	29.6	248	138	258	—
38	211510	30.0	22	118	191	291
39	212351	29.7	186	138	263	—
40	213535	30.2	47	173	299	—
41	214119	29.9	—	139	255	—

MLD - D ≥ 1°C/m



Profile positions, 3 Aug '99

Drop 10	2644	8954	Gulf Water
Drop 2926	2658 2536	8976 9108	Eddy Water
Drop 15	2420	8824	Gulf Water
Drop 37	2343	8647	
Drop 17	2450	8728	Loop Current Water
Drop 18	2575	8649	Loop Current
Drop 20	2548	8812	Loop Current
Drop 30	2723	8840	Eddy Water

	DROP #	LAT	LONG	
Turn #	(50)			
	1 ✓	2815	8520	10K FT RA
	2 ✓	2815	8600	
	3 ✓	2815	8640	
	4 ✓	2815	8720	
	5 ✓	2815	8805	
	6 ✓	2815	8900	
①	7 ✓	2815	9025	
	8 ✓	2735	9015	
	9 ✓	2715	9005	
	10 ✓	2645	8955	
NG	11 ✓	2615	8945	
	12 ✓	2550	8935	42001 Buoy
	13 ✓	2515	8925	
②	14 ✓	2400	8900	
	15 ✓	2420	8875	
	16 ✓	2430	8800	
	17 ✓	2450	8735	
③	18 ✓	2515	8650	descend to 5K FT
	19 ✓	2530	8730	
AXCP1	20 ✓	2550	8800	2600 8835 AXCP1
AXCTD1	21 ✓	2610	8900	2630 8950 AXCTD1
	22 (11) ✓	2615	8945	
	23 ✓	2645	9030	
AXCP2	24	2700	9100	2700 9100 AXCP2
④	24 ✓	2710	9130	
⑤	25 ✓	2530	9120	2530 9120 AXCTD1
	26 ✓			

Drop # LAT LON

Turn #

Drop #	LAT	LON	Notes
27 ✓	2550	9050	
28 ✓	2615	9015	
AXCTD 2 ✓ → 29 ✓	2655	8915	← 2630 8950 AXCTD 2
30 ✓	2720	8840	
⑥ 31 ✓	2755	8750	
⑥ 32 ✓	2740	8715	
33 ✓	2705	8710	
34 ✓	2630	8705	
35 ✓	2600	8705	
⑬ Name as #18 35	2510	8700	
36 ✓	2430	8655	
⑦ 37 ✓	2340	8650	
38 ✓	2405	8605	
⑧ 39 ✓	2435	8515	
40 ✓	2450	8550	
⑨ → 41 ✓	2510	8630	
42 ✓	2535	8620	
43 ✓	2555	8550	NG 4200 3 Buoy
44 ✓	2602	8538	NG
45 ✓	2620	8505	
⑩ 46 ✓	2700	8400	