

19980824H1-AXBT

(Reconstituted 3/17/99)

Form E-4
Page 2 of 3

AXBT and AXCP Check Sheet

Flight Number 980824H

AXBT/AXCP Contract Number _____

Take-off Time _____

Landing Time _____

Storm Bonnie

RA $\approx$ 4575m

Storm 1000115														KCP1 1700	
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.	Actual Lat. Deg. Min.	Actual Long. Deg. Min.	Time Surface Temp. AXBT	MLD (m)	Comments		
1			202308	202629	27 11	73 52	73 40	27 01	28.7	29.4	32				
2			204029	204350	26 18	72 51			27.3	27.8	76				
3			204933	205243	25 51	72 19			26.9	27.4	55	NG			
4 45			210015 210405	210419 210419	25 19	71 42			25.9	26.3	49	NG			
5			214744	215058	27 26	71 54			27.9	28.5	49	NG			
7			221651	222004	25 57	73 32			28.8	29.3	50				
8			222806	223105	25 22	74 12			28.7	29.3	47				
9			225833	230638	25 31	72 54			27.4	27.9	47				
10			232335	232704	27 23	72 54			27.7	28.1	53				
11			233550	233825	28 21	72 53			28.4	29.0	17				
12			235832						27.9			NG			
13			001548	001913	26 43	72 23			27.0	27.4	76				
14			002248	002617	26 43	71 46			27.4	27.9	47				

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

16

010449

2732 7204

NG

AXCP Log

Flight Number _____

Storm Name _____

Storm Direction/Speed _____

Take-off Time _____

Landing Time _____

[illegible][illegible]

Bordy Lyle

E.5 - Doppler Radar Scientist (On-Board)

The on-board Doppler radar scientist (DRS) is responsible for data collection from all radar systems on his/her assigned aircraft. Detailed operational procedures and check lists are contained in the operator's manual supplied to each operator. General supplementary procedures follow. (Check off and initial.)

E.5.1 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 operational mode for radar system(s) after consultation with the on-board LPS.
- ☒ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

- ☒ 1. Operate the system(s) as specified in the operator's manual and as directed by the on-board LPS or as required for aircraft safety as determined by the AOC flight director or aircraft commander.
- ☒ 2. Maintain a written commentary in the radar logbook of tape and event times, such as the start and end times of F/AST legs. Also document any equipment problems or changes in R/T, INE, or signal status.

E.5.3 Postflight

- ☐ 1. Complete the summary check lists and all other appropriate check lists and forms.
- ☐ 2. Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- ☐ 3. Hand-carry all radar tapes and arrange delivery as follows:
 - a. Outside of Miami - to the HRD Field Ground Operations Center (FGOC).
 - b. In Miami - to MGOC or to AOML/HRD. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ☐ 4. Debrief at the appropriate operations center (FGOC or MGOC).
- ☐ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

Doppler Radar Scientist Check List

Flight ID: 980244

Aircraft Number: 42

Doppler Radar Operators: DL Sci C100

Radar Technician: Max

Number of digital magnetic tapes on board: N/A

Component Systems Status:

MARS _____

Computer _____

DAT1 _____

DAT2 _____

LF _____

R/T Serial # _____

TA _____

R/T Serial # _____

Time correction between radar time and digital time: _____

Radar Postflight Summary

Number of digital tapes used:

DAT1 _____

DAT2 _____

Significant down time:

DAT1 _____

Radar LF _____

DAT2 _____

Radar TA _____

Other Problems:

quick notes: strong gradient NW-SE
R+R of storm we have max cool off of SST
(as expected). well mixed layer in eye area!
(as expected). number SSTs N, NE & NW
of Bonnie but MLD as sig from 40-50m
cool and 1+2...

HRD Radar Tape Log

Flight 908244 Aircraft 42 Operator C102 Sheet 1 of 1
LF RPM _____ TA RPM _____

(Include start and end times of DATs, as well as times of F/AST legs and any changes of radar equipment status)

BT Tape #	F/AST On?	Event Time (HHMMSS)	MLD end	SST °C	MLD	Lat	Lon	Notes + comments
1	1	20:26:04	26:32	28.7	34	27.04	73.45	N + w of star
2	2	20:43:52	44:41	28.3	73	26.02	72.31	eye - well mixed
3	3,4	20:52:42	53:20	26.9	57	25.37	72.01	SE of eye rainband
4	5	21:04:20	04:50	25.9	45	25.21	71.44	active core
5	6	Read	—	—	—	—	—	—
6	6-7	21:50:58	51:28	27.9	45	27.22	71.56	wind mix?
7	9	22:20:09	20:42	28.8	54	25.42	73.44	outside eye
8	10	22:31:03	31:39	28.7	54	25.21	74.14	Mixy?
9	11	23:01:26	02:00	27.4	36	25.49	70.53	PT 5 - eye
10	12	23:27:08	27:27	27.7	29	27.48	72.54	not to eye - 6
11	13	23:39:44	39:55	28.4	23	28.1	73.4	PT 6
12	14	00:02:37	—	27.9	—	27.03	73.15	wind FL OPT
13	15-16	00:19:12	19:52	27.0	63	26.4	71.5	core FL max
14	20?	00:26:14	27:02	27.4	72	26.4	71.2	strong eye
15	21?	00:34:17	34:55	27.3	257	26.07	71.16	Mixy!
16	22?	Read	—	—	—	—	—	—

HRD Radar Down-Time Log

Operator _____ Flight ID _____ Sheet ____ of ____

[illegible]

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.