19800808IL AXBT

AXBT CHECK SHEET SUMMARY

Flight	800808I1	Contract	No.
			Number
(1)	Sondes on hand by channel i	10CH12	8
		CH14	7
		CH16	6
		Tota1	21
(2)	Sondes used by channel no	CH12	8
		CH14	Association fractions
		CH16	6
		Tota1	21
(3)	Failures with no signal		Emplanes and Charles
(4)	Failures with carrier signs	al, but no modulation	3
(5)	Failures with sea surface to but terminated above therm		
(6)	Probes which terminated about below thermocline		0
(7)	Total Failures		5
(8)	Failure rate		23%

	64	NOO 16	3-77-0	0066	BT5	4 41130
٧.	84	Lot 1	0 5-78		,	14
	A4					12
	F3	BT5 :	23 7-7	7		14
	E3	BTS	23 7-77			14
	D3	BTS	23 7-7	7		14
	C3	het 1	5 - 78	;		14
	B 3					12
	A 3					16
-						
	F2	12				
	E2	12				
	D2	12				
	c 2	12				
	B 2	16				
	A 2	hot	10 5-78	14		
NATIONAL PROPERTY.						
	61	Lot 6	5-75	16	NO	
	FI	Lot 6	5-78	16		
	EI			16		

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hot 10 5-78

AIR-SEA INTERACTION CHECK LIST

FLIGHT	800	28	08	T
THEORE	000	10		perfe.

Pre	-deplo	oyment (following 48 hour alert)	
	W	Check radiometer calibration; if points recalibrate	
			42RF 43RF
	25	Arrange for deployment of needed AXBT units to staging base	
	38	Participate in flight crew, flight director briefing on proposed flight plan and AXBT drop sequence.	••••
Pre	-fligh	nt (following 24 hour alert)	
	1)	Inventory AXBT stocks, log quantities on AXBT check sheet summary	
	2)	Check that 1 antennas are in place and secured	
	3)	Turn on receiver and run through calibration sequence - check for proper operation	all 3 ok
	48	Check operation of strip chart recorder; set chart drive on .1"/sec; set scale on 0-5V; set pens on zero; set receivers on calibrate position 3 and adjust pen to voltmeter reading	NA
	5)	Check that required number of AXBT's are loaded externally and internally (remove tape from these) and that externally loaded tubes are labelled according to channel and year of manufacture number on the launch control panel	
	6)	Clean radiometer lens	RFC
	7)	Check proper operation of radiometer- compare meter reading and output of digital system while performing field calibration check at 3 temperatures	

8)	Obtain best estimate of radius of max wind, Rm, maximum wind, Vm, and minimum pressure, Pm	135 KT 950 mb
9)	Set up receives 1 and 3 (left hand and right hand) on strip chart	NA
Post take	off	
1)	Log takeoff time	162900
2)	Turn on radiometer	
3)	Turn on AXBT receiver, check for proper operation	Printer set for sec nate when
4)	Turn on strip chart recorder, setting chart rate at .1"/sec and voltage scale at 0-5 V, adjust 0 and 5 volt readings to	AXBT receiver on .
5)	Have line printer turned on and set at one sample per second rate, run through three calibration frequencies on all AXBT receivers	
6)	Set up graphics via terminal	NA
7)	Enter necessary programs via terminal	····· NA
In flight		
1)	Run through AXBT calibration at the beginning and end of each flight leg	<u> </u>
2)	Make sure flight pattern is oriented according to direction of prior tasks	
3)	Update estimate of $R_{\rm max}$ and storm intensity at least $1/2$ hour prior to first AXBT drop	
4)	Check radiometer every 1/2 hour between AXBT legs	
5)	Log times of all ascents and descents	163021 5100 m RA
6)	Label head and tail of strip chart with flight number, number each AXBT trace. Turn chart on before each leg, off at end of leg	NA

		•	
	7)	Encode AXBT traces between AXBT legs, deliver logs to flight director for transmission, log time of transmission	2 BT's excoded
		on the log	
Duri	ng A	XBT Legs	
	1)	Before and after each leg, switch receivers to calibrate mode and step through the calibration points, pausing 10 sec at each position	
	2)	Drop AXBT's in sequence according to channel no. (12-14-16-12, etc). Make sure channel selector switch on each receiver matches the AXBT channel number to be dropped.	
	3)	In the case of 2 AXBT's in the water at the same time, switch receivers 1 and 2 to the proper channel for the new AXBT, leaving receiver 3 set to the channel for the AXBT in the water	
	4)	Key AXBT drops to time. Memorize interval (in nm) between each drop along the leg l from Table E.1); compute time to next drop from Table E.2. Predicted time should thus always equal drop time. As time permits, check AXBT positions with HP-25 program	
	5)	Fill in as much of AXBT check sheet as possible before the drop. i.e., log latitude and longitude degrees before drop, then fill in tenths and hundredths (or minutes) of degrees just after dropping	
	6)	If available, punch right hand event button at drop time and again just after modulation begins.	
	7)	Estimate mixed layer depth (MLD) by estimating elapsed time from strip chart recorder, or by again hitting event button, when the temperature just begins dropping at bottom of isothermal layer (change of > .2°C in 1 sec). Convert elapsed time to	
		depth using Table E.3.	NA

Estimate time to first AXBT drop following a known turn point, using the average ground speed achieved after the turn

8)

9)	If AXBT drop is a manual one using internal sondes released from free-fall chute:		
	1) Check with flight engineer to be sure that the aircraft is depressurized		
	2) Be sure the sleeve is inserted in the free-fall chute		NA
10)	For external launching (legs through the hurricane center) be sure pilot has a med the system, you arm the system with key, select AXBT chute to be fired (row and column switches), arm the system with toggle switch and then fire at predetermined time. Copy info., label strip chart, set switches for next AXBT chute and compute time of next drop	••••	<i>V</i>
11)	From a flight altitude of 300 m, about 90 sec elapse between AXBT launch and the beginning of carrier transmission. For the rotor chute sondes, modulation begins about 60 seconds later. For the parachute sondes, modulation begins about 80 seconds after the carrier begins. The sonde is to be considered a failure if modulation does not begin 90 seconds after the carrier begins or, depending upon altitude, about 3 minutes after launch. If the planned AXBT spacing is 15 nm, or greater, a second sonde should be launched immediately after the above time is exceeded		V
After La	nding		
1)	Turn off all equipment IRT		
	AXBT		Y
	Strip chart		NA
2)	Turn in forms and check sheets to Lead Project Scientist		V
3)	Sketch flight pattern and approximate locations of AXBT drops		V
4)	Sketch surface temperature and mixed layer depth analysis		NA
5)	Itemize problems		

A/C

ALL AIRCRAFT FLY 5,2,4,2,1,2,3,2,5,2,4,2.1,2325

ALTITUDES 41C 12000 FT 42RF 18-20000 FT 45 RF 5000

OPTION B WILL BE FLOWN IF THE ETE IS LARGE OR IF A SECONDARY WIND MAXIMUM IS PRESENT

8 Panetrations

SEA SURFACE RADIOMETER CHECK SHEET

FLIGHT 800808I			SERIAL NO			
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Field che	ck on calibration	on-time	alla esta de la composition della composition de	ii iiciu		
		Log eve	ry 1/2 hour		Language	
Time	IR Temp Digital Temp Voltmeter	IR Temp Dial Temp CRT	AXBT Sfc Temp	Flight level	Comments	
72300	NA	. 24.1		5150	ok !	
174310	NA ·	24.4		5133	OK .	
180600	NA	23.8		3270	OK	
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