## AXET CHECK SHEET SUMMARY

Flight	800808I1 Contract	No.
E & 2 600 0	applicable, lagor resolved these form of the contraction of the contra	Number
(1)	Sondes on hand by channel noCH12	8
	CH16	6
	Tota1	2 /
(2)	Sondes used by channel noCH12	Appart lacrose Chapter's series in mana
	CH14	Rangementactores
	CH16	encomplex on a series reconstruction
	Total	21
(3)	Failures with no signal	Non-Manhamatan and Security Security
(4)	Failures with carrier signal, but no modulation	Samuel State Company Company
(5)	Failures with sea surface temperature but terminated above thermocline	Continued on the Contin
(6)	Probes which terminated above 250m but below thermocline	
(7)	Total Failures	
(8)	Failure rate	23%

64	NOO 163-77- C	:0066 BTS 8 Ch 12	
84	Lot 10 5-78	14	
AH		ASBİ CHECK SHEET STENATY	
F3	BT5 23 7-7	7	
E3	BTS 23 7-77	14	
<b>D</b> 3	8TS 23 7-7'	7	
C3	Let 10 5-78	14	
B 3		1230T	
A 3		sonder used by 16 d base asbess	
Noneconstant and the control of the			
F2	12		
E 2	12		
D 2	12		
c 2	12		
82	16	Failures with sea surface temperature but terminated above thermocline	
A 2	hot 10 5-78	Probes which terminated above 250m but below thermocline	
61	Lot 6 5-78	- 16 NO	
FI	Lot 6 5-78	16	
[ ]		16	
D 1		16	
CI		16	
BI ho	+ 10 5-78	14	
Α .	_		

12

AI

## AIR-SEA INTERACTION CHECK LIST

## FLIGHT 800808I

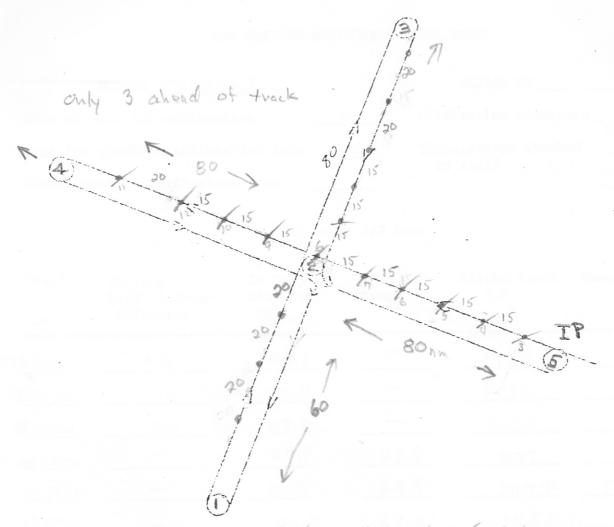
1)	Check radiometer calibration; if points or recalibrate	42RF
27	Arrange for deployment of needed AXBT units to staging base	
38	Participate in flight crew, flight director briefing on proposed flight plan and AXET drop sequence.	49.87
-fligh	nt (following 24 hour alert)	
1)	Inventory AXBT stocks, log 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
45	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 manuacture land the laureh control	
	facture 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	

	to the disorter for	20
8)	Obtain best estimate of radius of max wind, Rm, maximum wind, Vm, and minimum pressure, Pm	950 mb
9)	Set up receives 1 and 3 (left hand and right hand) on strip chart	NA
Post take	eoff	
1)	Log takeoff time	162900
2)	Turn on radiometer	
3.)	Turn on AXBT receiver, check for proper operation	Printer set for I sec nate when AXBT receiver on
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 edges of paper	NA NA
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 fligh	t less some the dree in the less seems to be a less	
1)	Run through AXBT calibration at the beginning and end of each flight leg	V
2)	Make sure flight pattern is oriented according to direction of prior tasks	
3)	Update estimate of $R_{\text{max}}$ 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 1
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 NA

7)	Encode AXBT traces between AXBT legs, deliver logs to flight director for transmission, log time of transmission on the log	••••	2 BT's executed
During AX	MBT Legs	and a second	
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)	Rey AXBT drops to time. Memorize interval (in nm) between each drop along the leg 1 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.		V
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
8)	Estimate time to first AXBT drop following a known turn point, using the average ground speed achieved after the turn		V

	9)	If AXBT drop is a manual one using sondes released from free-fall ch	g internal ute:		
		1) Check with flight engineer to that the aircraft is depressu	be sure		
		2) Be sure the sleeve is inserte free-fall chute	d in the	• • • • • • •	NA
	10)	For external launching (legs thro the hurricane center) be sure pil amed the system, you am the sys key, select AXBT chute to be fire and column switches), am the sys toggle switch and then fire at pr time. Copy info., label strip ch switches for next AXBT chute and of next drop	ot has tem_with d (row tem_with edetermined art, set		
	11)	From a flight altitude of 300 m, sec elapse between AXBT launch and beginning of carrier transmission the rotor chute sondes, modulation about 60 seconds later. For the sondes, modulation begins about 8 after the carrier begins. The sondes considered a failure if modula not begin 90 seconds after the carrier begins or, depending upon altitude, about after launch. If the planned AXBC 15 nm, or greater, a second sonde launched immediately after the about exceeded	d the For h begins parachute 0 seconds hde is to tion does rrier begins t 3 minutes I spacing is should be		
Afte	r Land	ling			
	1)		IRT AXBT Strip chart	• • • • • •	ŇA
	2)	Turn in forms and check sheets to Lead Project Scientist			V
	3)	Sketch flight pattern and approxi- mate locations of AXBT drops		• • • • •	<b>V</b>
	4)	Sketch surface temperature and mix layer depth analysis	ced	• • • • • •	NA
	5)	Itemize problems		• • • • • •	

AYC MODIFIED EYE-WALL EXP



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

ALTITUDES 41C 12000 FT 43 RF 5000

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

& functions

## SEA SURFACE RADIOMETER CHECK SHEET

SERIAL NO

FLIGHT 800808 I

Last lab check on calibration date NA Temperatures checked in field  Log every 1/2 hour					
Time	IR Temp Digital Temp Voltmeter	IR Temp Dial Temp CRT	AXBT Sfc Temp	Flight level	Comments
2300	NA	. 24.1		5150	O K
4310		24.4	applications.	5133	OK
30600	NA	23.8	Military Control of the Control of t	3270	O.K.
81900	Shoundly waters . Note: authorized accordance and proportion for the unbarreled brought	24.9	23.9	427	OK.
183415	through when the time is public convenience to demonstry includes in the county county.	21.8	24.9	1444	Thin cloud
184300	Managery.  Bennyimme the January making direct and desired and a second a second and a second and a second and a second and a second an	20,7	27.6	1457	
192410	Marina candidate and file of the Sound in the Marina garaginal depoint of the	23,8		1460	
195230	Allegation for the line of the his time over the following time couldness of the line of t	22.0	29,0	1456	Ca below
203430	anagemental to a construction of the section real to construction and strategy from	27.2	must be made to program to the contract of	1452	(( //
211920	Specification of the control of the	Material State of Application (Consulted State of Application) (Consulted State of Application	mate also a superporting and supering a construction of		ender die verdigen was die nier geleinigt der der die het die verdige voor de der verdigen de
224100	spinates in the energy of the region of the 12 to 12 t	24.0		1440	
000637	model symptoms influent account) deriv parmon consequence passing programming may ref	24.3	bundlings to state and the control of	31051	clear
ganga planski pirko remilijan agam anakhron sah	attraction only for the service of t	Berghes, fire of the control Berges digitals as parts - A restriction profession.	Activities in the second section of the contract of the contra		apticipient and an apticipient and a supplication of the state of the