

AIR-SEA INTERACTION CHECK LIST

FLIGHT **19780916IL-AXBT**

Pre-deployment (following 48 hour alert)

- 1) Check radiometer calibration; if points deviate by more than $.15^{\circ}\text{C}$, recalibrate

42RF.....
43RF.....

- 2) Arrange for deployment of needed AXBT units to staging base

- 3) Participate in flight crew, flight director briefing on proposed flight plan and AXBT drop sequence.

Pre-flight (following 24 hour alert)

- 0) *Try wrapping green strap around the 9 internal AXBT's and loading the*
- 1) Inventory AXBT stocks *log quantities* *on AXBT check sheet summary*

- 2) Check that 3 antennas are in place and secured

- 3) Turn on receiver and run through calibration sequence - check for proper operation

- 4) Check operation of strip chart recorder; *set chart drive on $.1''/\text{sec}$; set scale on 0-5 V; set pens on zero; set receivers on calibrate position 3 and*

- 5) Check that required number of AXBT's *adjust pen to voltmeter readings* are loaded externally and internally (remove tape from these) and that externally loaded tubes are labelled according to channel number on the launch control panel

- 6) Clean radiometer lens

- 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, R_m , maximum wind, V_m , and minimum pressure, P_m*

- 9) *Set up receivers 1 and 2 (left hand and right hand) on strip chart*

Post takeoff

- 1) Log takeoff time 214445
- 2) Turn on radiometer ✓
- 3) Turn on AXBT receiver, check for proper operation ✓
- 4) Turn on strip chart recorder, setting chart rate at .1 in/sec and voltage scale at 0-5 v, adjust 0 and 5 volt readings to edges of paper ✓
- 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* ✓
- 7) *Enter necessary programs via terminal* ✓

In flight

- 1) Check radiometer every 1/2 hour *Between AXBT logs* ✓
- 2) *Update estimate of Rmax and storm intensity at least*
Run through AXBT calibration at the beginning and end of each flight leg ✓
- 3) Log times of all ascents and descents ✓
- 4) Label head and tail of strip chart with flight number, number each AXBT trace. *Turn chart on before each log, off at end of log.* ✓
- 5) Encode AXBT traces *between AXBT logs, will do on way home.* ✓
deliver logs to flight director for transmission, log time of transmission on the log

Prior to landing

- 1) Run through AXBT calibration ✓

After landing

- 1) Turn off all equipment

IRT	✓
AXBT	✓
strip chart	✓

- 2) Turn in forms and check sheets to Lead Project Scientist

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- 3) Sketch flight pattern and approximate locations of AXBT drops

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- 4) Sketch surface temperature and mixed layer depth analysis

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- 5) Itemize problems

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1) Chart Drive Fixed

2) No channel 16's