Radar Scientist

20050911I

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

Preflight

✓ 1. Determine the status of equipment and report results to the lead project scientist (LPS).

✓ 2. Confirm mission and pattern selection from the LPS.

✓ 3. Select the operational mode for radar system(s) after consultation with the LPS.

✓ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

In-Flight

____ 1. Operate the system(s) as specified in the operator's manual and as directed by the 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.

Post flight

____ 1. Complete the summary checklists and all other appropriate forms.

___ 2. Brief the 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 LPS.
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 MGOC or the hotel during a deployment.

___ 5. Determine the status of future missions and notify MGOC as to where you can be contacted.

HRD Radar Scientist Check List

Flight ID: 20050911I

Aircraft Number: 43

Radar Operators: Marks/Aberson/Dunion

Radar Technician: Lynch

Number of digital magnetic tapes on board: >20

Component Systems Status:

MARS ↑ Computer ↑

DAT1 ↑ DAT2 ↑

LF ↑ R/T Serial # _____

TA ↑ R/T Serial # _____

Time correction between radar time and digital time: 1s

Radar Post flight Summary

Number of digital tapes used: DAT1 _____

DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

192.168.3.188

TO MacDil 14:55:15

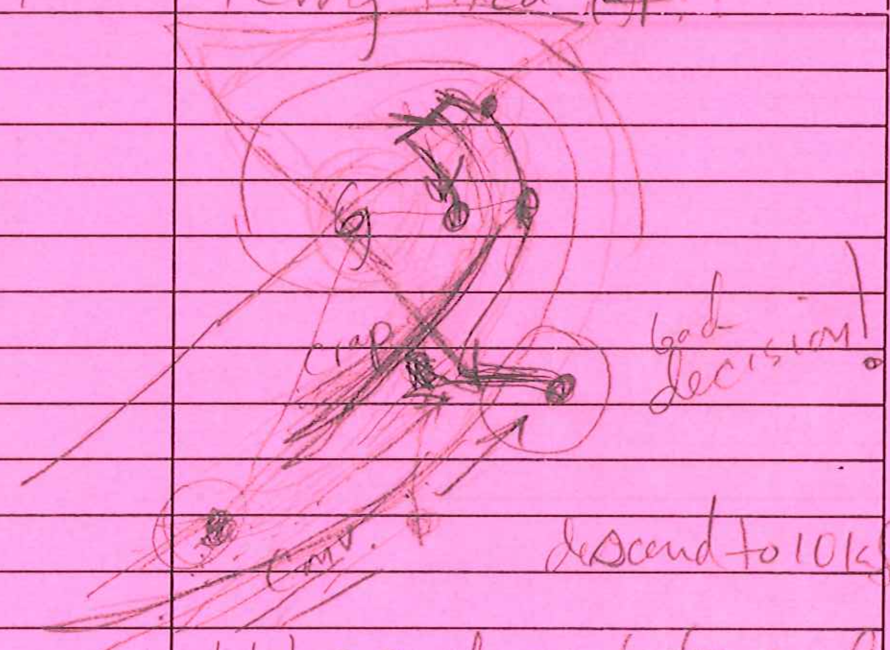
HRD Radar Event Log

Flight 20050911I Aircraft 43 Operator Marks Sheet 1 of 2

LF RPM 2 TA RPM 10

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

Tape #	F/AST On?	Event Time (HHMMSS)	Event
1	all the time		Radar LAN problems on 1st leg through need to reset whole LAN on downwind leg start 1705 UTC just outside primary band (12kft)
		1739	inbound Terry still working on network - had to stop John's analysis when network went down
		1748	Terry fixed it!!



good decision!

descend to 10kft

1st leg analysis looks good peak wind NNE 39-40 m/s glitch in software to display profile - shows winds in x-z slice for 15 but not slice 30

no dropsonde log?

RAINEX
Should look at Bonnie 19980826H
Landfall
at Bonnie
Bonnie's WROC

HRD Radar Event Log

Flight 20050911I **Aircraft** 43 **Operator** Marks **Sheet** 2 **of** 2

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)

Tape #	F/AST On?	Event Time (HHMMSS)	Event
		~~#~~ program	I fun needs to check
			if start time later than
			end time!
			job_auto_deficable too much
			debugging print out
			-set up to write
			standard filenames!
			don't leave it to operator
		220630	Radar system down
		2207	back up -