Radar Scientist

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: 050723H

Aircraft Number: 42

Radar Operators: Dodge

Radar Technician: S. McMillan, T. Hill

Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS _____ Computer _____

DAT1_____ DAT2 _____

LF _____ R/T Serial # _____

TA _____ R/T Serial #_____

Time correction between radar time and digital time: _____

Radar Post flight Summary

Number of digital tapes used: DAT1 _____

DAT2 _____

Significant down time:

DAT1 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

IFEX
Genesis

T/O 1605

HRD Radar Event Log

Flight 051723H **Aircraft** 42 **Operator** Dodge **Sheet** ___ **of** ___

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
		1629	FRENCH ANTENNA
		~~1651~~	
		2327	TAPE END

HRD Radar Event Log

Flight 050723H **Aircraft** 42 **Operator** Dodge **Sheet** ____ **of** ____

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

050723H IFEX & GENESIS

LPS: R. Rogers Sondes: D Stern

RADAR/WKSTN: P Dodge

~2H DELAY WHILE LINE Heading problem fixed.

T/O from MacDill at 1916 UTC

1930 finally in some convection NW of Merida. NHC has named it TD #7 so now we have to confirm the circulation.

2142 After tour of PPI of CAMPECHE we are hdg N to drop a few more sondes. Picking our way between some ~~tall~~ not so tall Cb.

We DID close it off - very close to coast S Bay of Campeche.

Land at MacDill: 0059 UTC