

E.5 Radar Scientist

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

E.5.1 Preflight

- _____ 1. Determine the status of equipment and report results to the on-board lead project scientist (LPS).
- _____ 2. Confirm mission and pattern selection from the on-board LPS.
- _____ 3. Select the operational mode for radar system(s) after consultation with the on-board LPS.
- _____ 4. Complete the appropriate preflight calibrations and check lists as specified in the radar operator's manual.

E.5.2 In-Flight

- _____ 1. Operate the system(s) as specified in the operator's manual and as directed by the on-board 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.

E.5.3 Post flight

- _____ 1. Complete the summary check lists and all other appropriate check lists and forms.
- _____ 2. Brief the on-board 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 Down-Time Log

Flight 050724I Aircraft 43 Operator Dodge Sheet of

[illegible]

Item List: DAT1, DAT2, COMP, MARS, LF, TA.

Include serial numbers of any new R/Ts.

HRD Radar Tape Log

05
Flight 0724I Aircraft 43 Operator Dodge Sheet 1 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)

[illegible]

HRD Radar Scientist Check List

Flight ID: 0507 24I

Aircraft Number: 43

Doppler Radar Operators: Dodge

Radar Technician: S. McMillan, J. Hill

Number of digital magnetic tapes on board: Sufficient

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:

050724 I LAST FLIGHT
INTO TS GERT to COMPLETE
CYCLE of TROPICAL CYCLOGENESIS

LPS: R. Rogers Radar: P. Podge

Drop sondeo D. Stern

T/O from MCTD: 1705 UTC

2027 only now was LF
radome powered

2139 weak  shaped
echo is moving onto coast

2159 We escorted GERT ashore
and left her to wander towards
Monterrey.

LANDED 0106 UTC