19980902II - RADAR

E.5 Doppler Radar Scientist (On-Board)

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 Postflight

_____ 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 HRD Field Ground Operations Center (FGOC).
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 the appropriate operations center (FGOC or MGOC).

_____ 5. Determine the status of future missions and notify the appropriate operations center (FGOC or MGOC) as to where you can be contacted.

Doppler Radar Scientist Check List

Flight ID: 980902 I1

Aircraft Number: N43RF

Doppler Radar Operators: GAMACHE

Radar Technician: JIM BARR

Number of digital magnetic tapes on board: _____

Component Systems Status:

MARS ✓ Computer ✓

DAT1 ✓ DAT2 ✓

LF ✓ R/T Serial # 103

TA ✓ R/T Serial # 201/201

Time correction between radar time and digital time: 1½

Radar Postflight Summary

Number of digital tapes used: DAT1 1

DAT2 1

Significant down time:

DAT1 _____ Radar LF _____

DAT2 _____ Radar TA _____

Other Problems:

HRD Radar Tape Log

Flight 980902I1 Aircraft N43RF Operator GAMACHE Sheet 1 of ____

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
		T/O	192548
D1T1	YES	194230	194230 - 1600/1066 - FAST - START
	NO	2242??	FOR V.I.
	YES	224430	NOT IN PRECIP
	NO	225650	FOR VI
	YES	230430	WERE IS ~~B~~FAST SECTOR
			BY MISTAKE FOR 1-2 MINUTES
	NO	230034	CONT FOR VI
	YES	231500	NOT ON A RADIAL
	NO	005540	FOR V.I. ~~B~~ ON KEUX RADIAL
	YES	010650	
		025730	END RECORDING

200240-G
200220-BT
200731-G
202222-G
202326-BT
205058-G
205105-BT

HRD Radar Down-Time Log

Operator _____ Flight ID _____ Sheet ____ of ____

Item	Time Down (HHMMSS)	Time Up (HHMMSS)	Problem
			NO DOWN TIME !

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

Include serial numbers of any new R/Ts.

This page received 980930 H

H. Earl 980902I1

9 2037 29°04.7' 87°09.1'
NOAA 43 15,000 ft.

PUK 29°9' 88°18' drum to SE
Sonde & BT -30°C
210246 BT & GPS
~~21~~ → 28°34' 87°29'

29 0~~4~~ 37 08

v211069 ? 29°06 87°07'

This SW to NE pass should make a very interesting

211658 BT
212036 GPS 29°36' 86°37'
212132 GPS 29'~~36~~ 43' 86°33'

213213 GPS 30°15' 86°24'
214353 GPS 29°32' 86°50'
214437 GPS 29°30' 86°52'
~~25~~ C 214544 BT 29'~~30~~ 25 86°55'

1 2229 Sonde BT 27°15' 85°45'

2 3420 GPS 27°31' 85°25'

224006 GPS 27°51' 85°9'
& BT

224445 28°3' 85°28'

225410 28°36' 85°21'

225850 Sonde only 21°C

230532 GPS
230532 BT

232215 (GPS) 29°45' 83°37'

233021 30°5' 84°9'

233430 29°57' 84°25'

235137 29°16' 85°3'

10,000
6 2322 USAF 29°20' 85°56'

6 (6,200) 242043 29°19' 86°45'

700 WEST OF CENTER
15 knots flight level
rough seas below

004325 BT Sonde 28°54' 87°6'

0052 29°20.3' 86°30'

010105 29°51' 86°24'

010740 30°15' 86°19'

012520 GPS 30°12' 87°52'

014045 BT 29°48' 87°23'

0206 9 (6,000) 29°34' 86°17'

~~022950 BT~~

023025 BT 28°56' 84°55'

023310 GPS 28°38' 84°32'

024019 28°34' 84°29'