1994092411-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

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

E.5.2 In-Flight

 Operate the system(s) as specified in the operator's manual and as directed by the HRD/DRS, unless superseded by directions from the on-board LPS or as required for aircraft safety as determined by the OAO flight director or aircraft commander.

E.5.3 Postflight

- Complete the summary check lists and all other appropriate check lists and forms.
- Brief the on-board LPS on equipment status and turn in completed forms to the LPS.
- Hand-carry all radar tapes and arrange delivery as follows:
 - a. Outside of Miami to the HRD 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 OAO flight director.]
- 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.

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Doppler Radar Scientist Check List

SADAL TTO

Flight ID	940924I						
Aircraft #	N14312F						
Operators	INILLOUGHD						
Radar Tech.	LYNICH						
Number of digital magnetic tapes on board <u>PLENTY</u>							
Number of tape labels on board PLENT_I							
Component systems up	p and checked:						
MARS DMTR1 LF	↑ ↑ ↑	Computer DMTR2 R/T#	↑ ↑ ↑				
TA R/T# Time correction between radar time and digital time							
	Radar Postflig	ght Summa	ry				
Number of digital tapes	s used:	DMTR1 DMTR2	5				
Significant recorder down time:							
DMTR 1 2028	3-2041	Radar LF					
DMTR 2		Radar TA					
Other problems: NONE							

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HRD Radar Tape Log

Flight 8409241 Aircraft N43RF Operator CONCOMPTSheet 1 of 2

Tape #	Time On	Time Off	Comments
1	1856	2028	OLIVIA VISIB- AT GATREME RANGE
1	~1930		IP TRAK W-> 9
	1944		15-47 117-54 6 115 KT 950m
	1957		FASTING DOWNWINDLEG
	2005		FAST OFF TURM NE- + G
	2019		15-52 117-57 & TIZAK NE G-+
*	2028		RADAR DOWN
2	264 1	0055	RADAR UP
	2042		TRAIL 5-75
•	2052		15-58 118-05 () TRAKS (g-)
	2103		FASTING DOWNWIND LEG
	2110		FAST OFF TRAKNU-AG
	2123		949 mb 16-02 118-06 TRAK NUT 5-1
	2134		FASTING
	2145		FAST OFF TRAKE-
	2155		16-05 118-14 Q TRAILE G-+
	2208		TURN TRAK W-+ 6
	2223		16-09 118-17 & TRAKUG+
	2234		TURN TRAKE
	2238		WINGS LEVEL TRAILE-05
	22 49		16-10 118-22 6 TRAILE + FP
	2300		FINAL POINT CLIMBING
	2332		TA OFF LF STILL ON
	0055		RECOIDD OFF

SEP 2 4 1994

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HRD Radar Down-Time Log

Operator MILLOUGHBT

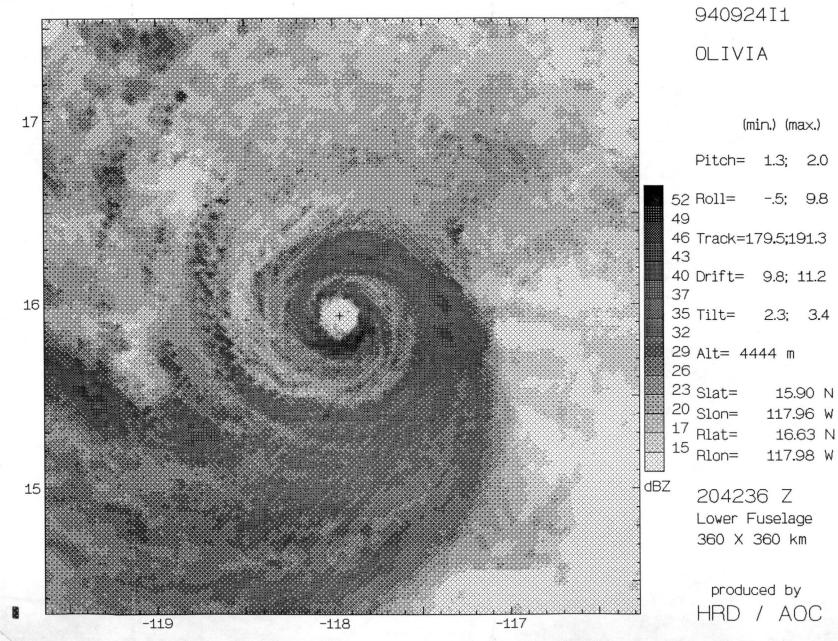
Sheet 2 of 2

Item	Time Down	Time Up	Problem
COMP	2028	2041	HANG UP
		an an a	
		Trend .	
	al and		

Item List: DMTR1, DMTR2, COMP, RDSC, LF, TA, DSC1, DSC2.

2345EP94 940924I OLIVIA LAKET 7. FIZST & 1944 15-47 117-54 950mb LAST 6 2249 16-10 118-22 494 MOTION 310/09 Frand 4. 32 (EUS FORMED ON W SUDE, MOUED AROUND TO É SIDE, PASSING 5 OF OF G. HIGHEST REFLECTIVITES 50 d.BZ, MODILY 35, SOME 40. A LITTLE GRAUPEL ON ALC 53ESIDES. (UP TO 20mls) BROAD UPPRAFTS E GIDE OF ETC. DOWNDRAFTS OUTSIDE & UMDER HIGHEST REPLECTUUTIES

1993



OLIVIA

