

Radar Scientist

Flight ID 20121026HI Storm Sandy Radar Scientist Lisa Bucci

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. 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 the Radar Scientist's form as well as 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. Download all radar data files to thumb drive.
3. Brief the LPS on equipment status and turn in completed forms and thumb drives to the LPS.
4. Debrief at the base of operations.
5. Determine the status of future missions and notify HFP Director as to where you can be contacted.

Doppler Wind parameters

Doppler flight-leg notes (for use in automatic QC and analysis)

FLIGHT ID:

Scientist:

	Leg Start Time	Leg End Time	Storm Motion		Center Fix			Max Radius (km)	Horz. Res (km)	Inbound track	Outbound track	ja?	Angle check?	Sent?
					Time	Latitude	Longitude							
					HHMMSS	(Deg/Min)	(Deg/Min)							
	HHMMSS	HHMMSS	Degrees	Knots	HHMMSS	(Deg/Min)	(Deg/Min)	49/98/147/196	1/2/3/4	track	track	H/TS	(Y/N)	(Y/N)
CX	8:58	9:49	300	5	92500	26°08'	76°44'	245	5	135°				Y
DW	952	1023								0°				
CX	1029	1120	324	6	1053	26°12'	76°49'			225°				Y
DW	1123	1135								115°				
CX	1139	1229	335	6	1204	26°20'	76°54'			0°				Y
DW	1232	1259								225°				
CX	1308	1356	345	6	1330	26°32'	76°50'			90°				Y
CX	1400	1451	345	6	1425	26°31'	76°50'			270°				

Note: Use every other line to indicate start and end time of downwind leg