

Radarscientist Form

(Updated 31 May 2019)

Flight ID 20190905Hz Storm Dorian

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AOC Radar Operator → "Mac" Michael McAlister

The aircraft radar scientist is responsible for data collection from all radar systems on his/her assigned aircraft, working with the ground radar scientist to ensure successful transmission of all radar products from the aircraft in a timely manner, and contributing to mission science by communicating real-time radar products to the LPS. Specific responsibilities are detailed in the *Aircraft Radar Support Guide* located on the radar workstation desktop and in the flight bag.

§ Pre-flight Notes.

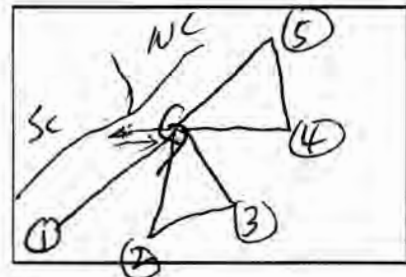
Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

None

§ Pre-flight Setup with Ground Radar Scientist.

Preferably before the planeside briefing, establish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

- Communicate any pre-flight issues noted above.
- Confirm latest flight pattern. Sketch to the right.
Indicate legs constituting proposed analyses.
- Go through Steps 1-3 of Aircraft Radar Support Guide.



§ In-flight Setup with Ground Radar Scientist.

After radar recording has begun, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

- Go through Steps 4-7 of Aircraft Radar Support Guide.

Indicate below any issues identified during Steps 4-7, in particular any radar instrumentation issues evident in the radar displays. If none, then simply write NONE below.

None

§ In-pattern Radar and Weather Event Log.

Indicate below any radar down times or significant weather observations that might be helpful for interpreting radar analyses (e.g., flight through sparse shallow convection).

Time (HHMMSS)	Event (Radar or Weather)
1950	take off
	TK 60° to center, TK 180° from center, 105 nm, Then
	downwind to a point 105 nm ESE TK 300 from center
	Then 060 to a point along the coast of NC 105 nm
	from cent. Then we will return to center to begin
	ocean wind mode, 8000 fti pressure heights.
2049	descending
205509	IP (dropsonde) TK 60
210806	MP (regular sonde, mini sonde)
2122	§ (orbiting in center then about 11 mins for two loops)
2133	OP (leg 1, TK 180)
214730	MP (Leg 1, combo) → (reg fail, backup sonde)
214915	mini good, backup good
220230	EP Leg 1

End-of-Flight Shutdown with Ground Radar Scientist.

Once the aircraft exits the system, reestablish Xchat communication with the ground radar scientist on #radar. Check off the following tasks.

- Go through "NEAR END OF FLIGHT" Steps 1-5 of Aircraft Radar Support Guide.

If you recorded 'N' for Analysis Sent at any point during the flight, please detail the situation below. If there are any other *mission-critical* issues pertaining to the radar systems not documented above, please note them here. If none, then simply write NONE below.

None	
222630 Drop combo	0110 G
2227 IP leg 2 TK 360	
2239 MP Leg 2 combo	
225335 Center Leg 2 TK 60	0121 EP
2258 Rnw drop combo	0127 IP
230730 drop combo	
2320 drop combo	0130 G
2321 EP leg 2	
2322 IP L+	0143 EP
2337 drop (single drop)	
2338 IP TK 260 Leg 3	
234915 center TK 270 Leg 3	
first Leg of ocean winds (add analysis of Paul's composite)	
2357 EP TK 90 leg 3 / leg 4 beginning	
000015 drop 2 Rnw	
0007 Center TK 243	
0016 EP TK 080 Leg 4 / leg 5	

leg 7
TK 249
Then TKs
Leg 7
Leg 8
TK 90
Leg 8

0024 center TK 236
0033 EP leg 5/leg 6 TK 070
0043 center leg 6 TK 270
0100 EP leg 6 TK 95 / leg 7