

Radar Scientist Form

(Updated 31 May 2019)

Flight ID 20196902HZ Storm PALOS Dorian

HRD Radar Scientist (Aircraft/Ground) Xuejin Zhang, J. Gamache

AOC Radar Operator ~~MasCaro~~ MasCaro

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.

§ 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)	
2034	IP leg 1	004560 IP TK225
20013	center	010935 Cent TK135
210435	OP Start	50 nm
2100		0120 EP
212645	EP	Semi circle
2156	IP leg 2 TK180	stay 7-10 nm outside
221953	center	big rainband
224345	EP	EP 014415 IP
225925	IP leg 3	0156 center
223815	IP Leg 3	out of storm J290
2315	EP leg 3	
0004	IP Leg 4	

~~004456~~
 00215 center leg 4
 004456 EP Leg 4

§ 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. ~~issues~~

Note: The thumb*products tar file was copied to portable disk. Other two files were left on machine because of the file sizes (~~to~~ > 6GB)