

# Radarscientist Form

(Updated 31 May 2019)

Flight ID 20190913H1 Storm AL09

HRD Radar Scientist (Aircraft/Ground) Alvey / N Griffin

AOC Radar Operator Nacher

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.

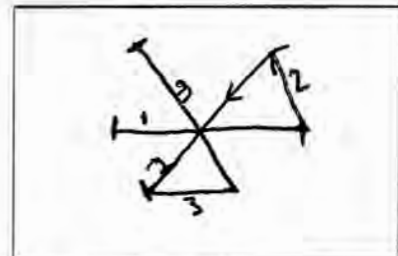
Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

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.

Initial confusion whether this flight was H1 or H2. It's H2

## § 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)
220200	shallow - mid convective cell left/under plane
222550	overflow mid convective cell w/ no turbulence
2230	increase in shallow convection (not much vertically developing - people)
2244	Arrival edge / stratiform not reaching ground but is the plane
2310	Deep convective band w/ stratiform precip to east
2332	flying on edge of stratiform but to our W/NW (night) / dark rain
2357	flew over developing deep tower (mid turbulence)
0015	Maybe shallow conv on radar but <del>no</del> no visual b/c dark
0058	passed near echos showing ~60+ dBZ
0120-21	shallow-mid echos w/ little turbulence (no echos on MMR)
0137	strato like deck (no visual) w/ no precip @/below FL

- no echos on MMR; some TC  
no visual

§ **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

