

Radarscientist Form

(Updated 31 May 2019)

Flight ID 190921H1 Storm AL99

HRD Radar Scientist (Aircraft/Ground) Rogers/Kyon Reasar

AOC Radar Operator 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.

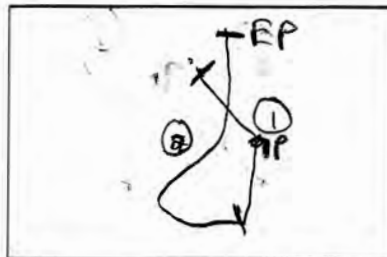
Indicate below any existing radar instrumentation issues, pre-flight radar repairs or other instrumentation issues (e.g., GPS swapout) that might impact radar data collection or analyses. If none, then simply write NONE below.

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.



① Coming in from NW to IP then S → center was IP

Wanted to use the same center but N leg wouldn't have fit w/ analysis domain entirely by ② heading W then N to EP → center was on northbound closest to orig. track to IP

§ 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)
162000	scattered, isolated echoes on LF, shallow echoes up to about 2-4 km. Mostly clear, through
162100	begin first leg, track 180
164310	fairly large number of isolated cells, echoes up to 8 km
173800	N of wave axis, in pretty strong easterly flow, see echoes up to ~8-10 km; elevated, not connected to sfc. Likely anvil debris
174700	mostly seeing stratocum on this flight w/ occasional breaks, and then some regions of shallow/mod convection and anvil debris; only one spot of deep convection, w/ tops to 14 km, on N side of wave axis

§ 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