

RadAR Support Form

(Updated 24 June 2024)

Flight ID _____ Storm _____

HRD Radar Support (Aircraft/Ground) _____ / _____

AOC SSA _____

The SSA (or HRD aircraft radar support) is responsible for preparing the HRD radar workstation for software execution and data transmission, ideally before take off. Through various situational awareness tools, radar support can advise the aircraft crew on issues pertaining to the radar software, scripts, data transmission and instrument function. Chiefly, radar support is responsible for generating the jobfiles that initiate the aircraft radar software. Specific responsibilities are detailed in the Radar Support Guide located in Google Drive (HRD/Hurricane Field Program/2024/Crewing & Training/Radar Training).

***Pre-flight Notes.**

Indicate any existing radar instrumentation issues, pre-flight radar repairs or other issues that might impact radar data collection or processing.

***Pre-flight Setup.**

Check off the following tasks.

Confirm latest flight pattern

Confirm execution of startup_script *at* the HRD workstation

***In-flight Setup.**

After radar recording has begun (log time below), check off the following tasks.

Verify proper TDR system function as described in the Radar Support Guide

Indicate below any ALERTS raised in #n4*rf-hrd-status, or other issues of note, prior to the IP.

***In-pattern Radar and Weather Event Log.**

Indicate below any analysis center info, radar down times or significant meteorological observations (e.g., center reformation) that might be helpful for interpreting radar analyses.

| HHMM (UTC) | Job # | Center (lat, lon) | Description |
|-----------------------|------------------|------------------------------|--------------------|
|-----------------------|------------------|------------------------------|--------------------|

Motion: deg kts

***End-of-Flight Shutdown.**

Once the aircraft exits the system and software execution is complete, check off the following tasks.

Inform SSA that they may bring down TDR; execute shutdown_script (can be done via ssh)

Fill TDR content in TC Flight Summary spreadsheet

Highlight here anything that should be considered in Level-2 reprocessing (e.g., failed or deficient Level 1b analyses, additional data that could be analyzed, parameters that might need to be adjusted). Please be as specific as possible.

Insert below a screenshot of flight track overlaid on satellite imagery (e.g., from MTS) at the completion of flight science. Include helpful time, range, and distance markers in the display.

***Dataflow Monitoring (as needed) ... All Times HHMM (UTC)**

| Jobfile Sent | Jobfile Received | Job Done | 1st EMC at Gateway | AWIPS at SEB | xy.nc.gz at SEB | Issue? |
|-----------------|---------------------|-------------|-----------------------|-----------------|--------------------|--------|
|-----------------|---------------------|-------------|-----------------------|-----------------|--------------------|--------|

Highlight here any dataflow issues. Copy/paste dialogue from xchat that might be helpful for understanding.