Testing Scenarios Using Day-in-Life cases

Short-Term Forecasts

- Primarily uses Radar, previous forecasts, satellite, and RUC data.
    - Overlay surface data/obs during satellite and radar loops
- Case(s) would use standard 3 CAVE, 1 GFE standalone, and XT workstation.
- Products to be issued would be TAFs and near term (today/tonight grids) in GFE.
- Use operational site procedures to fill in necessary data.
- 4-panel radar procedures/load outs to assure correct time updates - dual pol products when applicable

Long Term Forecasts

- Primarily uses longer term models (GFS40, NAM12, ECMWF) to determine Day 2 and beyond forecasts.
- Case(s) would use standard 3 CAVE/1 GFE standalone.
- Products to be issued would be Day 2 and beyond grids
  - Use smart tools such as Diurnal and "Copy grids from (multiple sources)" to assure data is filled into grids
  - Work with model blend and other smart tools to fill/smooth grids after data is loaded
- Use operational site procedures to fill in necessary data.

Warning Scenarios

- This is a the most unknown scenario. It takes witnessing an event to truly know operations.
- Case(s) will use standard 3 CAVE/1 GFE Standalone.
- For now we will use several radar, lightning, and local cwa plots procedures.
- Issue warnings/statements will running procedures.
- Use operational site procedures to fill in necessary data.

4-Panel Model Family

- Load Volume->4-Panel Families->GFS40

- Step through and determine if all frames are present

- Swap panes during looping to make sure frames reset and loop correctly

River Gage Editing

- During periods of low precipitation, questionable data points need to be edited.

- Display gage data via Hydro Time-Series and manually delete points that are significantly different.

- Review in the Rejected Data Trash Can table in Hydroview.

Radar Environment Data

- Load an upper air sounding (e.g. Upper Air->US Eastern->Wash-Dulles, VA (KIAD)

- Determine the levels for 0 deg C and -20 deg C.

- Update the radar environment data on the ORPG.