

Instructions to Add SAILS Super Res Products to AWIPS RPS

Build 14.0 adds SAILS which produces additional 0.5° cuts for Hi Res R/V and Super Res R/V/SW products while in VCPs 12 or 212. However, before these SAILS products will be generated, they must be requested via an RPS List. If not requested, the products are not generated, even if SAILS is Active.

The Hi Res R (DR #94) & V (DV #99) products were added to the National RPS List, so no changes are required for these two products.

However, to get the Super Res R (#153 SDR) , V (#154 SDV) , & SW (#155 SDW) products the VCP12 & 212 RPS lists MUST be updated. Note that the Super Res SRM is generated by AWIPS based on the SDV product.

Below are the additional 3 lines that need to be ADDED to the 12 and 212 RPS lists. These are "IN ADDITION TO" the existing entries for these products. The SAILS lines do not replace, and cannot be combined with, the existing entries for these products.

Super Res Reflectivity (Z), levels 256, resol 0.25, elev 0.5, Cuts All
Super Res Velocity (V), levels 256, resol 0.25, elev 0.5, Cuts All
Super Res Spec Width (SW), resol 0.25, elev 0.5, Cuts All

The RPS list files are stored in three different locations on AWIPS-1 (the locations for AWIPS-2 are not known at this time). The update needs to be made to the VCP12 & 212 files in all 3 locations. The format of the files are the same for all 3 locations, but the filenames in the 1st location has a .rps appended to the end. The 3 locations for AWIPS-1 are:

/data/fxa/rps-lists <-- This is where the RPS List Editor saves files

/data/fxa/radar/lists <-- These files are used when the VCP changes on the RPG (AWIPS automatically sends these files)

/data/fxa/customFiles <-- These files are copied to /data/fxa/radar/lists during a software update

If a 'more' command is given to view one of the RPS list files, the three lines above show as:

Super Res Reflectivity (Z) HZ 153 256 25 - 5 -1 0 1N -1 -1 Y -1 0

Super Res Velocity (V) HV 154 256 25 - 5 -1 0 1N -1 -1 Y -1 0

Super Res Spec Width (SW) HSW 155 256 25 - 5 -1 0 1N -1 -1 Y -1 0

The Y in the 3rd from last column is the "Cuts All" option. Cuts All does not mean "All cuts in the vertical" but instead means "additional cuts of this elevation angle" (i.e., the 2nd 0.5° cut)