

RDA 8.09 Release Notes

These release notes cover changes made to the SIGMET Radar Data Acquisition platform. The last public release was RDA-8.08.14 dated 27 May 2005. If you are upgrading from an earlier version please also read the release notes that have been published since then.

New Features

1. An additional element *fdBAddNseThr* has been added to *struct rvp8BatchSetup* to allow a slightly higher noise threshold to be set for the BATCH surveillance powers versus the Doppler powers. The default value is zero, meaning that the same noise threshold will be used for both sets of pulses just as it always has been.

This new parameter is experimental. Please be sure to initialize it prior to calling the DSP driver routine *dspw_batchSetup()*. A conservative suggestion for reducing the density of speckles in BATCH mode is to set this parameter to 0.5dB, and also turn on the standard “1D” RVP8 speckle remover.

Bug Repairs

1. A bug was repaired in RVP8 BATCH mode wherein Doppler data might (very rarely) be unfolded into more than one range bin.
2. Timeseries data that were recorded using PRF-Sectors could not be played back properly on the RVP8.
3. The RVP8 algorithm for finding the next Coherent Processing Interval would sometimes fail to properly resume after a network timeout that interrupted the reporting of angles to the RVP8.