IRIS 8.08 Release Notes

These notes cover changes made in IRIS since release 8.07 of 5 November 2004. If you are upgrading from an earlier release, please read those notes also.

Important Upgrade Notes

1. *Linux Platforms Only:* There was a problem in the config_template/init/iris_init_linux script file which is used for automatic starting of IRIS. It was not correctly running **qiris** on system shutdown. After upgrading, please install the new file. This is done by:

```
# cd /usr/sigmet/config_template/init
# cp iris_init_linux /etc/rc.d/init.d/iris
```

Data Format Changes

1. The antenna serial data formats from the RCP to IRIS were enhanced to supply additional bits indicating whether the shaft encoder has been calibrated yet or not. We have used spare bits in formats RCV01, RCV02, RCV03, and RCV05 for this purpose.
2. In the task_range_info structure within the task_configuration structure there is a field called “ibin_var”. This is used to flag variable bin spacing, a feature never implemented in IRIS. This field was set to uninitialized memory. It is now zeroed.

Bug Repairs

1. The ROM code loadup feature from *dsp.rom* was not working on the RVP7. This has been broken since the 8.04 release.
2. Fixed copy install of acroread, broken in 8.07.
3. The real time display format used by **rtd_nids3_xmt** was incorrect if more than one data type was selected.
4. Repaired a crashing of the Ingest Summary Menu. If would fail if running a task and then selecting ingest files.
5. The DWELL product function is changed slightly when run on WARN product inputs. It will now clear the flags indicating protected area hits on all but the most recent inputs. The means it will now only alert if the target is currently in the protected area.
6. There was a long standing bug in the RAW product generation when converting between 8-bit and 16-bit formats (either way). On dual polarization data sets which include both RhoHV and PhiDP, these data files would be damaged. This could happen with some other dual pol data types also.
7. Repaired a bug in **ascope** Mag Spectra recording. It was broken in 8.07 when we fixed the Arg Spectra bug. Also fixed garbage characters showing up on the left label when only plotting Arg Spectra.

8. Fixed a bug in the Product Output Menu when saving the device specific output options. It was sometimes skipping the save for one or more output devices. This bug was introduced when these files were converted to ASCII in IRIS Version 8.06.

9. The SLINE product now computes the gain number based on the average measured thickness of the line. Previously it was compiled in at 2.1 km. Also the gain numbers were incorrect if there was more than 1 shearline detected. It would average the lines together for the second line.

10. The QLW Live Tool now filters the task name list based on the selected site.

11. In the **rtdisp** program you could only save the first 5 overlay layer buttons. Beyond that it would clear them all.

New Features

1. IRIS Ingest has been enhanced to better handle disabling the noise samples. If you disable the noise sample on the RVP8 the noise will be set to the powerup default noise levels. Previously the last noise sample value was used. This could be any value if the processor was used for testing purposes.

2. The ant_rcv process now performs a sanity check on arriving antenna positions. Failures are logged. This means we will detect if somehow the antenna positions are damaged in transmission. You should change setup/rcp/advanced features/Packet logging to “error” to enable this logging.

3. The **HDF5ToIris** convertor pipe TASK table can now filter on the /what/object and /where/angle attributes of the HDF5 input. This requires a format change in the IrisToHDF5.conf file.

Setup Changes

1. Added a new question in the setup/product *Product Generation* section. “Signal if busy more than __ minutes”. This is used to detect a fault caused by the user requesting more products than the CPU can make. If you wish this feature, set this to a bit longer than your scan cycle time. To disable the feature, set to the default value of 0.0.