

## IRIS 8.05 Release Notes

These notes cover changes made in IRIS since release 8.04 of 4 November 2003. If you are upgrading from an earlier release, please read those notes also.

### Important Upgrade Changes

1. We added a “Minimum Shearline Length” question to the SLINE product configuration menu. All shearlines detected which are shorter than this will be ignored. Previously this number of hard coded to 10 km. When upgrading be sure to set this to 10 km on all TDWR type systems to get the previous behavior.
2. *HP-UX Platforms only:* As of this release IRIS will no longer run on HP-UX 10.20. You should upgrade your systems to HP-UX 11.11.

### Bug Repairs

1. Changed the IRIS server polling scheme. Previously it was polling every 60 seconds to make sure each of it’s clients was still alive. Clients were required to respond within 3 seconds. This had two undesirable side effects: Some slow networks could not reliably respond within 3 seconds, and when they did not respond other server activity was blocked. We now rely instead on the client polling.
2. Repaired a bug causing the polarization state to sometimes not be loaded.
3. *HPUX 11 Platforms Only:* Fixed parsing of latitude and longitude numbers. They were incorrectly reading the minutes as zero if the minutes field was greater than 10. This effected the QLW home point features, as well as the projection setup menu and the **overlay** utility.
4. Fixed a bug in the NDOP product. The quality of the results degraded significantly when the NDOP resolution was less than 3 times the ingest resolution. One obvious manifestation was missing rows and columns in the NDOP output.
5. The **antenna** utility better supports non-controlling systems by desensitizing all the control sections of the menu. It will now also automatically exit if someone runs **qant** on the system.

### New Features

1. Added a “Make Diagnostics” button to the NDOP product configuration menu. When pressed, the NDOP product will make an additional velocity CAPPI product. This is the input data used for the NDOP calculations.
2. The antenna library now supports reception of network and serial angle tags. See Setup Changes 3.
3. **Ascope** now will display the RMS value of the noise sample for the RVP8. This can be used to detect interference from another radar in the sample. The values are in dB, where

zero is a typical value for noise. Expect a lower value with siggen input, and a higher value with interference from a pulsed radar.

4. Many new features were added to the **UfToIris** input pipe. Included were features to allow reading of WSR-88D data, such as support for incorrect wavelength, sweep skipping, incorrect fixed angles, data missing from individual rays, mixed bin spacings. We also support multiple configurations within the same .conf file. Also support for mapping a UF data type to the IRIS User data, and complete custom definition of the UF data type names. See the UfToIris.conf file for details.

## Setup Changes

1. **Setup** now has a new menu command to load factory defaults.
2. **Setup** has been reorganized to move the traditional license and site questions into a separate button. This is needed because the RVP8 now includes the site in the TS API data stream.
3. The **setup** rcv section has some new questions to support network tag angles. For “Interface to rcv” you can now enter “Network”. The old socket option is renamed “AntExport”. The network interface still uses the same serial data format, but now they are sent over a network cable rather than over a serial cable. Thus the configuration questions are for IP address and port number, rather than device file and baud rate. We also added the new question “Are you the 1 controlling host”. You must set this to “Yes” on only one system. That is the system which stores the desired antenna position, as well as the polarization and pulse width. When this question is set to “No”, there will be no ant\_xmt process launched, and all the control sections of setup are removed.
4. The dsp library now reads its setup configuration over the network from the remote host in the case of importing from a **DspExport** host. This has the benefit that **setup** can now blank all the RVP related setup questions when you specify a **DspExport** interface. You no longer need to enter that configuration in 2 places.