

IRIS 7.16 Release Notes

These notes cover changes made in IRIS since release 7.15 of 24 February 2000. If you are upgrading from an earlier release, please read those notes also.

Installation Changes

1. *Linux platforms only:* The software components used only by the RxNet7 are now available on the IRIS release media. The IRIS_BIN directory will now contain a “hardware” subdirectory. If you are using an RxNet7, be sure to include this new directory in your list of executable paths. Put this in the \${IRIS_CONFIG}/profile file.

SetupChanges

1. Support for rainfall rate and rainfall accumulation displayed in inches is partially implemented in **color_setup**. **Color_setup** does not yet support automatic version upgrading so you will have to manually configure this to get the correct legends. Run **color_setup**, select Data Param “R”. Go through each of the color scales for R to make sure the units say “mm/hr”. Similarly select Data Param “Rain”, and make sure all the units say “mm”. After this is saved, and IRIS is restarted, all new products should get the correct units.

Bug Repairs

1. Fixed a bug which caused an IRIS window to lockup when a product is sent to it within 30 seconds after the user has logged out. After the user logged back in, the window would not reappear and it was listed as working in the RST menu. This problem has been in IRIS for several years.
2. Fixed a problem with automatic polling for available IRIS servers. Iris was sometimes crashing with an infinite loop. Bug started with auto connect feature added in 7.11. It would only happen when you enabled the automatic polling.
3. *Linux platforms only:* Fixed a bug in the Forecast Tool. The toggle button for using the FCAST product would pop out when the time was changed.
4. Another bug in the Forecast Tool: The FCAST product name text was not updated correctly, so it would not work until manually selected. This could cause a lot of confusion.
5. Fixed error messages when displaying a warning product with the centroid label text partially off the left edge of the window.
6. *Linux platforms only:* Fixed product type selection in the display options menu.
7. Network output file names “Default” and “8.3” used fully qualified node names. This could lead to longer file names with multiple dots. Bug was introduced on 28 January 2000 in release 7.14.

8. Fixed NORDRAD iton_prod entries to include sizes. These entries in 7.15 produced NORDRAD files with zero size.
9. In the TCF menu, the polarization control was incorrectly switching back to “Horiz” if you did not request ZDR data.
10. Shearlines now displayed using their custom color when draw as part of the TDWR product.
11. Fixed bugs in **tdwr_llwas_int** utility. It was in some cases losing alerts when combining IRIS and LLWAS inputs. Also in some cases the wrong arenas were reported when converting IRIS inputs. Also MAX_WSA was treated as positive rather than negative (gain rather than loss).

New Features

1. IRIS now supports minor release versions. This is to better support interim releases. Each cd release is given a release number like “7.16”. A patch release made after that will be called “7.16.1”, and up. These minor numbers are printed by **siris**, **show_machine_code**, and in the message log file. All stored data only contains the major number.
2. There were significant changes made to the SLINE product. It now can detect multiple shearlines. The lines are fit with a maximum 3rd order polynomial (down from 5). The lines do not include regions to the side. This tends to avoid space filling curves picking up all the noise. The product configuration menu now allows the user to display either 1 or two forecast lines. The product now also calculates and displays the intensity of the shearline in knots gain. The SLINE product is now scheduled as an immediate product when running on only one elevation angle.
3. There were changes made in the SHEAR product. Added a new unfolding filter to smooth out problems unfolding noisy velocities. Also the azimuthal shear is better aligned in azimuth, and deals better with missing rays.
4. The task name is now included in the window legend, as well as time to the nearest second.
5. The RVP7 can now be rebooted from a ROM file. If the file “dsp.rom” is present in the IRIS_CONFIG directory, then the dspstart() routine will attempt to load and boot it. The IRIS INGEST process follows a similar procedure each time it is switched on.

The reboot sequence is only done if the code version currently running in the RVP7 does not match the version number of “dsp.rom”. That file will typically be a symbolic link to a named distribution file in the “config_template” directory. IRIS CDs also will now include the current RVP7 ROM distribution file. Note that no upgrade action is taken, and no errors are generated, if “dsp.rom” does not exist.