

## IRIS 7.17 Release Notes

These notes cover changes made in IRIS since release 7.16 of 24 March 2000. If you are upgrading from an earlier release, please read those notes also.

### Installation Changes

1. If you are using IRIS's network output pipe "Picture700", you will need to install the new version from the config\_template/pipes directory after upgrading.

### Setup Changes

1. **Setup** has a new question in the *General/Modes and Protocols* section: "Status product mode change". This is only displayed if the "External RCP mode change" feature is disabled. If you enable this feature, you can enter a site ID, and IRIS will change modes to match the mode of that site whenever it receives a status product. This allows easy mode slaving of multiple systems. In support of this new feature, IRIS will now immediately make a new status product if the mode has changed.
2. **Setup** has a new question in the *Product/Product Transmission and Display* section: "Label bottom of SLINE display". This is used to control whether you want the text label on the bottom of SLINE displays. There is a similar question also for TDWR, TRACK, and WARN products.

### Bug Repairs

1. Fixed a problem which could cause overlapping microbursts to not fill correctly in the display. This was fixed by merging centroids when the middle of one is inside another.
2. Pipe network output is improved to display errors in the pipe, and to allow RAW product output. The pipe command line argument format has changed.
3. Raised the maximum number of data moments which can be recorded from 6 to 8. This was needed because of the new polarization data types.
4. *Linux platforms only*: Fixed a problem with **irisnet** crashing if started a second time.
5. The server would crash when displaying a product on a window if there were more than 2993 of the same product on the disk. The problem has always been there. The failure could be quite severe, even preventing automatic restarting.
6. There were a number of enhancements made to the COMP product to improve its ability to detect birds. If only one input site is selected, and the output site is set the same, then it goes into a special mode in which it does a "dwell" composite in time, rather than a single time composite. Also radial velocity can now be composited, with the absolute value taken at the end.
7. The SLINE strength is now consistently displayed using the vector difference. It was being displayed differently on the ribbon display and the display screen.

8. The real-time display screen was off center by 20 pixels.
9. Fixed a bug in the rainrate forecast/shift/scale routine introduced with the new rainrate units in 7.16. This was causing compositing of rainrate products to fail.
10. A bug was repaired that would cause ingest to compute an incorrect coasting velocity between scans whenever the next task to run had a velocity of "auto".
11. When ingest would begin a new continuous PPI scan in active mode, it was not properly waiting for the azimuth scan velocity to first reach the expected scan rate. This would cause the first few rays of a slow scan task to be missed if that task was immediately preceded by a rapid scan task. This has been fixed.

A related new feature is that the INGEST signals that are generated whenever a scan can not be properly started, now include text describing exactly what went wrong. For example, if the proper AZ scan rate was never achieved while waiting to begin a sweep of a PPI, you will now see the message text:

**Problem starting scan at EL=5 (AZ velocity out of range)**

Previously this message would have been:

**Antenna El position 5 not reached in allotted time**

12. The POM Color Scale Menu gets the new rainrate units right now.
13. The NORDRAD areas file now defines 2 API output devices and a default CAPPI height. See the template file for details.
14. *Linux platforms only*: Fixed problem causing a crash in the display options from the POM menu.
15. Fixed a bug in drawing centroids: The fill color was leaking out if the centroid went off the edge of the picture. This bug was introduced in 7.16.
16. The RAINN product was failing when it gets to the end of the list of inputs. This bug was introduced in 7.13 with the new inventory.
17. The **vrribbon** utility can now be run by an observer, and it takes a command line argument to control the initial size.
18. A bug was repaired in the Record/Play functions of the **ascope** utility that caused KDP, PhiDP, RhoHV and SQI to be recorded incorrectly. This bug was introduced in 7.13 when those parameters were first added.
19. Fixed a bug which could cause the projection menu to refuse to change projections.
20. The site status summary shown on the RST and window alerts was sometimes wrong. It now shows the worst site if set to "alert on one", and the best site if set to "alert on all".
21. Loading the first product on a new window with the site filtering turned on would fail if there were similar products from other sites with dates after yours. The server would print a "MISSING" message.

## **New Features**

1. IRIS can now do mode changing based on a status product from another system. See setup changes 1. above for details.
2. There is a new pipe shipped with IRIS used to convert RAW files to UF format. It is called "IrisToUf".