

IRIS 7.15 Release Notes

These notes cover changes made in IRIS since release 7.14 of 31 January 2000. If you are upgrading from an earlier release, please read those notes also.

Installation Changes

1. IRIS no longer uses the system environment variables LANG and NLSPATH to find its message catalogs use to translate error messages to text strings. When upgrading you can remove all reference to LANG and NLSPATH from the \${IRIS_CONFIG}profile file. Check that the profile file contains the line:

```
export IRIS_NLS="${IRIS_ROOT}/bin/nls/C/"
```

On systems with LANG not set to "C", you can remove the symbolic link \${IRIS_ROOT}/bin/nls/\${LANG}. On Linux systems you can remove the /usr/share/locale/C directory. On Linux systems with the LANG not set to "C", you can remove the link from /usr/share/locale/\${LANG}/LC_MESSAGES to \${IRIS_ROOT}/bin/nls/C. Instead this should be the original directory.

Bug Repairs

1. The antenna driver was timing out sites when the timeout time was set to zero.
2. There were some bugs in 7.14 related to the hardware name used in STAT products. In some cases, the NST menu would not show information from the most recent STAT product for each site.
3. Fixed a bug which could cause IRIS to make a new status product every 5 seconds. This was caused by the new antenna fault checking.
4. *HP platforms only:* Network output failed to shutdown when the receiving computer closed the socket connection under HP-UX 11.0. It would go into an infinite loop.
5. The VVP correction to Azimuthal SHEAR product was broken since 7.13.
6. **Vribbon** and **ribsetup** now both take the -geom command line arg, as well as allow observers to use them.
7. Fixed mix-up in the task configuration menu: The gain control section was not working since we added the DPRT feature.
8. **Productx** is enhanced to correctly display the new fault levels, as well as the last message and antenna position.
9. Windows will no longer leave extra clntRcv processes when the output crashes.
10. Now checks for invalid size to TDWR, WARN, and SLINE products when displaying.

11. WARN ellipses now drawn even when the center is off screen. There is still some trouble with text going off the left edge.

New Features

1. There are many new features related to the TDWR product. It now can be overlaid with other products. It now includes any WARN and SLINE inputs in the display. Fixed missing protected areas when taken from IRIS products. It was only getting them if there was a hit. Also improved the integrator to correctly handle a burst of inputs. The runways.conf file can now control the default display center for the TDWR product. See the template file for details of the file format.
2. RHI scans will now work properly over the full 180-degree interval over the top of the antenna. Scans can also start below zero degrees, and end above 180 degrees if desired. Throughout IRIS, the display of elevation angles is modified to be in the range -90 to +270 degrees. It used to be -180 to +180. The **antenna** utility program will display a full circle control rose for systems with this feature.
3. IRIS now has a new automatic output of overlay products feature. If a new product is inserted into the inventory, and that product is overlaid on top of another base product, and that other base product is configured for automatic output, the base product will be resent to the output device. This help when configuring a display, for example, of the most recent CAPPI overlaid with the most recent WARN.
4. IRIS now has an smarter color legend. If a base product which has no color legend (such as WARN) is overlaid with a product which has a color legend (such as CAPPI), the overlaid product will be used to generate the legend.
5. **Init_iris_tape** and **init_iris_mo** now take a new command line argument “-n” to specify the media ID to use when initializing.
6. IRIS now support a new archive subtype called “LDA”. This stands for “Large Disk Archive”. This is a large disk filesystem which is written and read using the archive menu similar to an MO disk. To initialize a LDA, run the new utility program **init_iris_lda**.
7. IRIS now performs more advanced checking for **setup** errors. It detects multiple output devices with the same unit number, and internally counts the number of archive devices.
8. The DSP driver will now signal the Vendor ID and Product ID of whatever SCSI device was actually opened whenever that device does not match what was expected from **setup**. Previously, the mismatch was signaled, but no clue was given as to which device was actually found. This makes it easier to initially sort out device names on systems with multiple SCSI devices. For example, if a Plextor CD-ROM was found instead of an RVP7 you will see the message:

DSP type does not match setup <Vend:'PLEXTOR' Prod:'CD-ROM PX-20TS'>
9. SLINE product are now drawn using a new color specified in **color_setup**.

10. The output options menus can now control whether overlay products are taken from the nearest in time to the base product, or the most recent. This is essential to display quickly changing alert information such as that coming from LLWAS.
11. The thresholds used in the WARN product can now be treated either as upper bounds or lower bounds for the data comparisons. A '>' or '<' character is used to select which type of comparison you want to perform. Previously, only '>' comparisons were allowed.
12. **Irisnet** now displays a red-X or yellow-X on top of each IRIS icon to indicate if that system is reporting a fault.

NORDRAD Changes

1. Conversion of IRIS TOPS product to and from NORDRAD RRETM_Z was scaled off by a factor of 1000.
2. The format of the NORDRAD_AREAS.DAT file is changed a lot. It now supports selecting the NORDRAD area based on product name when converting from IRIS to NORDRAD. See the template file for more detailed notes on the format. When upgrading you will have to convert your file as follows:

Duplicate all the areaname to sitename lines. Add the prefix "ntoi_map" to the first group, and add the prefix "iton_map" to the second. For the ntoi_map group, remove the column of information for h-size, v-size, flag, and resolution. A typical line will look like:

ntoi_map FIABO1 MASKU 500

For the iton_map group, remove all the lines with the flag set to "SKIP", then remove the flag column and be sure to include the resolution column, which is no longer optional. A typical line will look like:

iton_map FIABO1 MASKU 150000 150000 1000