

IRIS 8.11.0 Release Notes (13 Dec 2006)

These notes cover changes made in IRIS since release 8.10.10 of 28 October 2006. If you are upgrading from an earlier release, please read those notes also.

Data Format Changes

1. We have added a new text field to the **product_configuration** structure to control which subtasks of a hybrid task are to be included in the product: sTaskMinorList[16]. This data format change means that you have to upgrade all your machines to have the Product Configuration Menu work correctly.
2. The ingest_configuration structure now has a new field in which we store the configuration name from the HydroClass config file dpolapp.conf. This is only implemented for HydroClass on reingest in this release.

Installation Changes

1. The Software Installation Manual has been revised to recommend that customers create a /usr/iris_data/input directory. This will match a standard input device which will be created on a new install. The **sigconfig** script also now creates this.

Bug Repairs

1. If you are using HydroClass, please see Bug Repairs 2. , 3. , 4. , 5. , 6. , 7. , and 8. in the RDA 8.11.0 Release Notes.
2. Lots of improvements to the NEXRAD utilities **nr_velcal** and **nr_noisefig**. New command line options, such as velocity sign reversal. The Siggen is on during nr_velcal test
3. Fixed bugs in the **zauto** output of dynamic range values. The siggen limits will now allow siggen settings above 10 dBm. The NEXRAD buttons are now always set back on exit, and the calibration and siggen times are now correctly updated only for the PW that was calibrated. Also fixed a bug in the View Cal Menu. New Results Horiz was being display in New Results Vert.
4. The antenna library was not transmitting the signal generator level when the signal generator was turned off. As it turns out, in NEXRAD systems this attenuator is used in other cases, so we changed this.
5. Fixed a bug in **bitex** which could cause it to insist that you needed to run **qant** when it should not. This happened if you created a new field in **bitex**, then changed it's type to QBITE.
6. Fixed a bug in the **antenna** utility. If you launched two copies of antenna, then adjusted the siggen setting on one, it was not always automatically tracking on the second. Also the siggen scrollbar increment/decrement was not updating the signal generator.

7. **Zcal** now also prints out the slope for RVP7 and later.
8. **Siris** will now exit with an error if the `ant_lib` fails to start, Trac #62.
9. **BufrToIris** now better handles 8-bit input data because it will now allow up to 255 data levels.
10. Fixed a time adding bug introduced on 14 Nov 2005, in release 8.09.10. When adding time to times whose DST (Daylight savings time) state did not match the normal default value for the host computer's time zone, it would make errors by 1 hour. `Ymnds_add_seconds()` now preserves the DST flags exactly as input. This could cause many bugs, including skipping the last hour of the day in RAIN1 products.
11. Raised the maximum number of IRIS output windows on one system from 9 to 20. Trac #69.
12. If a customer installed patches to the `${IRIS_BIN}` directory using the suggested symbolic link format, it would confuse **sigmet_env** to give the wrong results. **Sigmet_env** is now fixed to perform checking through symbolic links, ticket #72
13. Fixed a bug in the Makefiles which caused some of the messages catalogs to be invalid, and prevented message translations for catalog 105 and 114. This bug was introduced in 8.10.10.
14. The projection configuration menu now has a help button.
15. Some improvements were made to the IRIS projection configuration menu. You can now specify the Earth's Ellipsoid by either typing in the Equatorial radius and reverse flattening (as before), or by typing in both the equatorial and polar radii. We also increased the display resolution to 11 digits of radius, and 10 digits of reverse flattening. This allows you to see the distinguish the new GRS80 ellipse from the old WGS84, since they differ by only 1/10 of a mm in radius.
16. When the product generator is run on a hybrid task, and the "Products from partial ingest scans" setup question is set to "No", then the product generator insists that all the specified hybrid scans must be present to run. Unfortunately, if you use a "*" in the name, this means now maps to all letters A-Z (previously just A-C), which is unlikely to be found. This is repaired by changing the product scheduler to handle the "*" as a special case. If a * is in the hybrid list, then it will run on whatever hybrid inputs are found. If you want to force it to use all 26 inputs, then simply specify the list as "A-Z" rather than "*". It will still require that none of the hybrid inputs was interrupted in the middle. Trac #86
17. Fixed some bugs in the **IrisToBufr** pipe. It was computing the wrong number for the X- and Y- offset, including reversing the sign of the X-offset. Also the north-polar Stereographic projection reference latitude is now set to 90.

New Features

1. To better support customers, we have a new bug tracking system here called “Trac”. You will now see references to Trac number in the release notes. This can help us answer more detailed questions about changes.
2. We have improved the product generator to support hybrid tasks with more than 3 minor tasks. The new limit is 26. A significant part of this change is to allow more explicit control of which sub-tasks of a hybrid task are to be included in the product. The product configuration menu now has a separate text field to enter the letters of minor tasks to use. Three formats are supported: “*” means all minor tasks, “ADE” means use minor tasks _A, _D and _E, and “B–E” means use tasks _B through _E (that is _B, _C, _D, _E). For backwards compatibility, the old suffixes in the task name of “_*”, “_A”, “_B”, “_C”, “_AB”, “_BC”, “_AC”, and “_ABC” still have their old meaning. We have phased out “_X” in the task name.