

## IRIS 7.20 Release Notes

These notes cover changes made in IRIS since release 7.19 of 3 July 2000. If you are upgrading from an earlier release, please read those notes also.

### Installation Changes

1. A big change here! **Install\_iris** has been renamed **instiris** to make it run directly off the cdrom. There is now a new installation program called **install**. It is not yet working. After upgrading to 7.20, your install directory will still contain the old **install\_iris** file, delete it to avoid confusion.
2. Several bugs have been repaired in **instiris**. The **-examples** flag now works properly and installs from the gzip'd (rather than compressed) files. All destination directories are checked for writability and existence (used to check only the latter). The **-setown** flag now sets the mode and owner of the IRIS root directory. Error messages are improved when a targeted installation is attempted to a node that can not be accessed.
3. There is a change in the RST menu saved state: after upgrading to 7.20 you will need to go to the RST menu and turn on the output devices, then save it.
4. *IRIS Hydromet systems only:* After upgrading please copy the raingage and catchment icons to your config directory as follows:

```
$ cd ${IRIS_ROOT}/config_templates/overlay
$ cp catch* ../../config/overlay/
$ cp gage* ../../config/overlay/
```

### Setup Changes

1. There is a whole new section called "Input" added to IRIS. Because of this, when upgrading you will get an error message about a missing file "input\_setup.conf" when you run **siris** or **setup**. To repair this, run **setup**, make a change, then save it. There is also a new question for the priority of the input process.
2. Added new **setup/product/Product Generation** question: "Raingage date arrival wait time". This is used only for raingage corrected RAIN1 products. This is the time to wait for raingage data which may arrive after the hour. See the Hydromet appendix to the *IRIS User's Manual* for details.

### Data Format Changes

1. Added RAIN1 flags for clutter map and gage correction. In addition to bits indicating that the clutter map or raingage correction were requested, bits were added to indicate if these corrections were applied.

### New Features

1. The major new feature in IRIS 7.20 is the addition of the new raingage correction to the RAIN1 product. This includes: A new control button to the RAIN1 PCF menu. A new

pipe program **Rain1GageCor** which implements the corrections. A new input pipe **AsciiToGage** which is used to read in the raingage data from another system. Changes to the scheduling algorithms for the RAIN1, RAINN and CATCH products. See details of this in the Hydromet appendix to the *IRIS User's Manual*.

2. Another major new feature in 7.20 is the generalized IRIS inputs. You can now configure IRIS to poll up to 16 directories looking for arriving files. The IRIS input process will then run a convertor program to change the file to an IRIS product, and insert into the product inventory. This is configured from the new "Input" section of **setup**. There is a new button on the RST menu to turn the inputs on/off. Status is shown in the lower left corner after the outputs.
3. There is a new example utility called **change\_raw** that is able to make changes to RAW products. For now, its capabilities are to add a dB offset to all data (as if dBZo had originally been different), and to change the range bin resolution in cases where the IRIS and DSP bins spacings were originally different.

## Bug Repairs

1. Fixed a bug which caused the RAIN1 product to fail. It would crash, or get an incorrect error message. There is a patch for 7.19 on our ftp site for this bug.
2. The Color Scale options were not being saved for windows with index greater than 1.
3. Moved the install/profile.sigmet file to config\_template/init/develop.sigmet. This file should only be referenced by users who are developing code for IRIS. If your .profile file references this file, consider removing it.
4. Added display of output status and window mode to **show\_iris**.
5. Fixed descheduling bug for hybrid tasks. Bug introduced with the new passive scanning on 13-1-2000 in release 7.13. A hybrid task would not stop if asked to "stop when done" except on the last task.
6. Fixed bug in ingest causing VVP products use for unfolding to be marked as inuse, and other products to get a negative inuse count. This was broken by the new product inventory scheme on 28 Dec 1999, in release 7.13
7. Fixed missing index in inuse product listing in **show\_iris**.
8. *Linux platforms only:* If the user running IRIS was not "operator", then the help buttons on windows did not work. This has never worked
9. Fixed ring center output feature. This was broken on June 28 in release 7.19.
10. The **instiris** script will now check that the **-ocdcase** switch seems to have been used when the CDROM was first mounted under HP-UX.
11. Added **sigbru** to **irisnet**. Only available to local machine.
12. Repaired a limit checking bug in **setup**. The subtype of the ARCHIVE selection was not being properly tested. This caused warnings when **setup** was started on systems with modisks.

13. Repaired a bug that was originally repaired in 7.17, but which got reintroduced in 7.18. PPI Continuous scans were not waiting for the AZ velocity to get within tolerance before starting.
14. IRIS overlays were always forcing in a layer called "Boundary". There now is no extra layer, though if you define points without a layer command it will use "Default".
15. Added control of sitename to **kma\_sat\_interface** program in kma.conf file
16. **Siris** will now show the actual expiration date, plus the number of days remaining until that date is reached, for any temporary licenses that are being used. We hope that this will help customers to stay aware of which temporary licenses will be expiring soon.
17. Another attempt to fix the color scales byte-swap problem. This problem was only partially fixed in 7.19.
18. The DSP driver has been improved so that the automatic detecting of proper byte order in the signal processor is more robust. Previously, you would sometimes get the "Could not determine byte order" error message when starting up a signal processor that had been left in a poorly defined state.
19. Numerous bugs fixed relating to the CATCH product: There is now a new CATCH specific output options menu. It allows choice of map or icon display. The PCF menu now fixes a byte-swap problem with the input of RAIN1 and Subcatchment names. The bar graph pop-up is working.