

IRIS 7.04 Release Notes

These notes cover changes made in IRIS since release 7.03 of 7 January 1999. If you are upgrading from an earlier release, please read those notes also. The current hardcopy versions of the manuals are: *IRIS/Open User's Manual*: 7.04, *IRIS/Open Utilities Manual*: 6.11, *IRIS/Open Installation Manual*: 7.04, and *IRIS/Open Programmer's Manual*: 7.00.

Installation Changes

1. Link output now takes its control from **setup** rather than from the IRIS_LINK1 environment variable. After upgrading, you should remove the environment variables from your profile file.

Bug Repairs

1. The cursor tool now handle 3-D products correctly.
2. The max speed is now applied correctly in FCAST and TRACK products.
3. The FCAST and TRACK products now are smoothed before processing. This will help remove the effect of single bad pixels.
4. The Archive Menu now will support up to 4 archive devices. This is the last bug which prevented using more than 2 archive devices.
5. The thresholding algorithm for NDOP has been improved to help remove spurious output winds. Each averaged NDOP output cell must now contain at least 3 observations, and at least 20% of the maximum number of observations that might have been averaged into that cell.
6. The bug which caused IRIS's overlays to sometimes fill with the wrong color is repaired.

New Features

1. The new COMP (Composite) product is now available. This can be used to composite data from multiple radars to make the following products: CAPPI, VIL, TOPS, and PPI.
2. The **color_setup** utility is improved to allocate it's own private colormap. This means that it does not interfere with other programs by using up colors. This was an essential improvement given the large number of colors used by IRIS.
3. The "picture types" in the HKO link format were changed. This format is now documented in the *IRIS Programmer's Manual*.
4. IRIS overlays can now contain up to 200000 data points. The old limit was 40000.
5. The FCAST product displays will now adjust the intensity of the data, in addition to position. **Productx** will display the change rate also.

6. The POM menu product type list will now only show a type if there is a product. Also the extra headers are now cleaned up.
7. The window startup wait time is lowered from 4 minutes to 1 minute.
8. The minimum azimuthal resolution of PPI tasks is lowered from 0.500 to 0.352 degrees.

Setup Changes

1. There is a new question in the “Product” *Product Generation* section: “Minimum Vertical Gradient”. This is for a new feature not yet implemented in this release. IRIS will extrapolate above the highest echo using this gradient. This should help remove ring artifacts in CAPPI products.