

## Release Notes for SCF Software delivery V200909.0

### PLEASE READ THIS ENTIRE DOCUMENT BEFORE RUNNING CODE

The following is a list of bug fixes, modifications, and enhancements that have been made to the SCF software since the V200901.0 delivery:

Special Note on Release 31 products: Starting with this release, the difference between unique indices on two consecutive 1 second records is now 5 rather than 10; on 4 second records it is 20 rather than 40.

#### Data Selection GUI for Data Request and Visualization:

##### New Features!

- Allows users to select tracks on map in several ways:
  - Select or unselect a track from the list
  - Select or unselect a track by directly clicking on it on the map (new!)
  - Select an area on the map and then click one of the following buttons:
    - Select Tracks - to select all tracks within the selected area (new!)
    - Unselect Tracks - to unselect all tracks within the selected area (new!)
    - Zoom Map – to zoom the area on the map
  - Multiple areas can be selected (new!)
  - Click “Select All” button to select all tracks in window
  - Click “Unselect All” button to unselect all tracks in window
- Selected tracks are saved among maps (new!)
- Uses GSAS V5.6 libraries.
- A new header has been added to the subsetted GLA files: VersionID=release number; i.e. VersionID=31; (this matches the same header on the I-SIPS products)
- A new header has been added to the UR files: UIXDELTA=rec\_ndx difference; i.e. UIXDELTA=5;

#### Data Visualization Software and GUI:

##### New Features!

- Uses snapshot\_20090828
- Uses GSAS V5.6 libraries.
- The default release is now 31.
- Because of the new record index difference at release 31, users must be very mindful of the data release they use in the visualizer. If release 31 is used for older data, the visualizer won't work; if an older release is used for release 31 data, the visualizer won't work. We are working on a new release of the visualizer that will automatically take care of this.
- Includes IDL product structure definitions for GSAS V5.6 data products.
  - Elevations plotset:
    - Replaced d\_DEM\_elv with d\_MSS\_elv (mean sea-surface elevation) on GLA15
  - Range Corrections plotset:
    - Removed d\_msRngCorr (multi-scatter correction) from GLA06, 12-15
    - Added d\_poTide (pole tide) to GLA06, 12-15
  - Flags plotset:
    - Removed i\_msCorrFlg (multi-scatter correction flag) from GLA06, 12-15
  - Angles plotset:
    - Added d\_pad\_angle to GLA08-11 (bug fix)

- Delta tick labeling: Axis tick labels may now be shown as deltas from the value of the first tick on the axis. This is a plot property, user-settable for either axis on any plot, and is now the default for the x (time) axes on the time series plots, which makes them much easier to read. Formats may be set separately for normal ticks, base ticks for the deltas, and the delta ticks. The associated properties are included in the property save files, but old files will still work (tick labeling will be unchanged). (new!)
- The plot properties dialog has been redesigned. Besides adding the delta-ticks option mentioned above, the x-axis, y-axis, and general properties have been moved to separate tabs in the dialog window. (new!)
- A new header has been added to the GLA files created by the visualizer subsetter: VersionID=release number; eg. "VersionID=31"; "VersionID=1"; means that the original products didn't have the VersionID header on them.
- A new header has been added to the UR files created by the visualizer subsetter: UIXDELTA=rec\_ndx difference; eg. "UIXDELTA=5";.
- The constants file includes the value of the new record index deltas for each product, and also arrays of both old and new values by product number.

#### General Guidelines:

- Type `glas_data_request` to run the data request software (/opt/bin must be in the user's system path).
- Type `glas_visualizer` to run the data visualization software (/opt/bin must be in the user's system path).
- Since subscriptions and special requests are now manually checked before submission, please submit them between the hours of 9 am to 6 pm EST Monday – Friday for rapid response.
- When contacting the SCF manager use the address [SCF\\_manager@icesat0.gsfc.nasa.gov](mailto:SCF_manager@icesat0.gsfc.nasa.gov). This email address goes to several mSCF personnel in case the manager is unavailable.
- When accessing the SCF website, use the fully qualified domain name (<http://glas-scfweb.gsfc.nasa.gov>). This will ensure that the website works correctly.
- Updated documentation is available for viewing in PDF format on the SCF website.
- Any comments or questions about this delivery please post on the bulletin board on the SCF website so we can get feedback from all interested parties. If you experience a problem with the software, check postings before you submit a new one to see if anyone else has already posted it and if a reply has been made.