

Product Format and Definition Changes with Release-28

Changes are summarized below. More information about product formats is available on the NASA Wallops Flight Facility's Web site at [Version 5.3 GLAS Files](#).

NOTE: References to GLAS binary product names GLA01 to GLA15 refer to original GLAS binary data, and are retained here for informational and provenance purposes. Access to GLAS binary data was removed 01 August, 2017. All GLAS data are available in HDF5 format, products GLAH01 to GLAH15.

1 GLA01

- Updated i_txWfPk_Flag description and PDF

2 GLA04

- Updated i_txWfPk_Flag description and PDF

3 GLA05

- Added a flag to i_WFqual to indicate if the waveform is clipped
- Updated i_wfFitSDev_1, i_wfFitSDev_2, i_sDEVFitTr to reflect the product unit change to microvolts*10
- Updated i_parmTr to reflect the product unit change to microV*100
- Removed gwi_satFlagLo, gwi_satFlagHi, & gwi_satFlagHiF from i_WFqual, and used i_satNdx instead
- Improved description of i_numiters, i_sDEVNsOb1 & i_maxRecAmp

4 GLA06

- Added i_sDEVNsOb1 & i_maxRecAmp
- Added i_pctSAT
- The saturation correction flag (i_satCorrFlg) has been redefined
- Improved documentation for i_satNdx
- Changed the definition of bits 13-15 of i_RngOffQF to spare
- Improved description of i_MRC_af
- Changed the scale for d_satNrgCorr from 0.001d0 to 1.0d-17, and for d_satPwvCorr from 0.001d0 to 0.01d0
- Changed the name of i_satRngCorr to i_satElevCorr
- Improved description of i_satElevCorr
- Product units for i_srf_slope has been changed to 0.01 deg

5 GLA09

- The descriptions and PDF layouts of the following parameters have been improved: i_FRCL_Flag, i_HRCL_Flag, i_MRCL_Flag, i_LRCL_Flag

6 GLA10

- The descriptions for the following parameters in GLA10 were corrected: i_cld1_sval_uf, i_aer4_sval_uf, i_cld1_bs_flag, i_cld1_ext_flag

7 GLA12

- Added i_pctSAT
- The saturation correction flag (i_satCorrFlg) has been redefined
- Added i_maxRecAmp and i_sDevNsOb1
- Improved documentation for i_satNdx
- Improved description of i_MRC_af
- Changed the scale for d_satNrgCorr from 0.001d0 to 1.0d-17, and for d_satPwdCorr from 0.001d0 to 0.01d0
- Changed the name of i_satRngCorr to i_satElevCorr
- Improved description of i_satElevCorr
- Product units for i_IsSlopeEmp has been changed to 0.01 deg

8 GLA13

- Added i_pctSAT
- The saturation correction flag (i_satCorrFlg) has been redefined
- Improved description of i_RufSealce
- Added i_maxRecAmp and i_sDevNsOb1
- Improved documentation for i_satNdx
- Improved description of i_MRC_af
- Changed the scale for d_satNrgCorr from 0.001d0 to 1.0d-17, and for d_satPwdCorr from 0.001d0 to 0.01d0
- Changed the name of i_satRngCorr to i_satElevCorr
- Improved description of i_satElevCorr

9 GLA14

- Added i_pctSAT
- The saturation correction flag (i_satCorrFlg) has been redefined
- Added i_maxRecAmp and i_sDevNsOb1
- Improved documentation for i_satNdx
- Improved description of i_MRC_af

- Changed the scale for d_satNrgCorr from 0.001d0 to 1.0d-17, and for d_satPwdCorr from 0.001d0 to 0.01d0
- Changed the name of i_satRngCorr to i_satElevCorr
- Improved description of i_satElevCorr
- Product units for i_LandSlopeLast has been changed to 0.01 deg.

10 GLA15

- Added i_pctSAT
- The saturation correction flag (i_satCorrFlg) has been redefined
- Values for i_OcMeanElev, i_OcRufRMS are now filled
- Added i_srf_slope, i_srf_ruf, i_maxRecAmp and i_sDevNsOb1
- Improved documentation for i_satNdx
- Improved description of i_MRC_af
- Changed the scale for d_satNrgCorr from 0.001d0 to 1.0d-17, and for d_satPwdCorr from 0.001d0 to 0.01d0
- Changed the name of i_satRngCorr to i_satElevCorr
- Improved description of i_satElevCorr
- Product units for i_srf_slope has been changed to 0.01 deg.