

# Product Format and Definition Changes with Release-33

Changes are summarized below. More information about product formats is available on the NASA Wallops Flight Facility's Web site at [Version 6.0 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.**

## GLA01-GLA04

- No changes

## GLA05

- Changed i\_PADPoint(6,40), i\_PODFixedPos(6,40) to i\_spare43(12,40)
- Renamed i\_refRng to i\_refRngNs
- Removed i\_atmQF, replaced with spare

## GLA06

- Deleted i\_PADPoint(6,40), i\_PODFixedPos(6,40) and replaced with the following: i\_campaign(2), i\_spare40, i\_cycTrk, i\_localSolarTime, i\_spare41(7), i\_deltaEllip(40), i\_beamCoelv(40), i\_beamAzimuth(40), i\_d2refTrk(40), i\_SigBegOff(40), i\_DEM\_hires\_src(40), i\_DEMhiresArElv (9,40), i\_ElevBiasCorr i2b(40), i\_spare42(5,40)
- Removed i\_bs\_conf, i\_bs\_erd; replaced with i\_spare11(3)
- Moved (see above) i\_SigBegOff(40); Replaced with i\_spare47(40)
- Renamed i\_reflctUncorr to i\_reflctUC
- Changed i\_erd, i\_rdu to i\_spare16(4)
- Removed i\_atmQF; replaced with spare
- Removed i\_beam\_coelev, i\_beam\_azimuth; Replaced with i\_spare15(8)
- Deleted i\_DEM\_hires\_src , i\_DEM\_hires\_elv; Replaced with i\_spare44(120)
- Removed i\_FRir\_ODflg; replaced with i\_atm\_char\_flag, i\_atm\_char\_conf, spare48

## GLA07-GLA08

- No changes

## GLA09

- Added i\_atm\_char\_flag, i\_atm\_char\_conf; resized i\_spare4(418)

## GLA10

- No changes

## GLA11

- Removed i\_Aer\_ir\_ODFlg, i\_cld\_ir\_ODFlg, i\_FRir\_ODFlg; replaced with i\_spare6
- Added i\_aer4\_sval1, i\_aer4\_sval\_ratio, i\_aer4\_aod\_ratio, i\_aer4\_sval\_uf, i\_spare5, i\_reflCor\_atm; Resized i\_spare4

## GLA12

- Deleted i\_PADPoint(6,40), i\_PODFixedPos(6,40) and replaced with the following: i\_campaign(2), i\_spare40, i\_cycTrk, i\_localSolarTime, i\_spare41(7), i\_deltaEllip(40), i\_beamCoelv(40), i\_beamAzimuth(40), i\_d2refTrk(40), i\_SigBegOff(40), i\_DEM\_hires\_src(40), i\_DEMhiresArElv (9,40), i\_ElevBiasCorr i2b(40), i\_spare42(5,40)
- Removed i\_bs\_conf, i\_bs\_erd; replaced with i\_spare11(3)
- Renamed i\_reflctUncorr to i\_reflctUC
- Changed i\_erd, i\_rdu to i\_spare16(4)
- Removed i\_atmQF; replaced with spare
- Removed i\_beam\_coelev, i\_beam\_azimuth; Replaced with i\_spare15(8)
- Deleted i\_DEM\_hires\_src , i\_DEM\_hires\_elv; Replaced with i\_spare44(120)
- Removed i\_FRir\_ODflg; replaced with i\_atm\_char\_flag, i\_atm\_char\_conf, spare48

## GLA13

- Deleted i\_PADPoint(6,40), i\_PODFixedPos(6,40) and replaced with the following: i\_campaign(2), i\_spare40, i\_cycTrk, i\_localSolarTime, i\_spare41(7), i\_deltaEllip(40), i\_beamCoelv(40), i\_beamAzimuth(40), i\_d2refTrk(40), i\_SigBegOff(40), i\_DEM\_hires\_src(40), i\_DEMhiresArElv (9,40), i\_ElevBiasCorr i2b(40), i\_spare42(5,40)
- Removed i\_bs\_conf, i\_bs\_erd; replaced with i\_spare11(3)
- Renamed i\_reflctUncorr to i\_reflctUC
- Added i\_kurt2, deleted i\_spare11
- Changed i\_erd, i\_rdu to i\_spare16(4)
- Removed i\_atmQF; replaced with spare
- Removed i\_beam\_coelev, i\_beam\_azimuth; Replaced with i\_spare15(8)
- Deleted i\_DEM\_hires\_src , i\_DEM\_hires\_elv; Replaced with i\_spare44(120)
- Removed i\_FRir\_ODflg; replaced with i\_atm\_char\_flag, i\_atm\_char\_conf, spare48

## GLA14

- Deleted i\_PADPoint(6,40), i\_PODFixedPos(6,40) and replaced with the following: i\_campaign(2), i\_spare40, i\_cycTrk, i\_localSolarTime, i\_spare41(7), i\_deltaEllip(40), i\_beamCoelv(40), i\_beamAzimuth(40), i\_d2refTrk(40), i\_SigBegOff(40), i\_DEM\_hires\_src(40), i\_DEMhiresArElv (9,40), i\_ElevBiasCorr i2b(40), i\_spare42(5,40)
- Removed i\_bs\_conf, i\_bs\_erd; replaced with i\_spare11(3)

- Removed i\_SigBegOff; replaced with spare47
- Renamed i\_reflctUncorr to i\_reflctUC
- Changed i\_erd, i\_rdu to i\_spare16(4)
- Removed i\_atmQF; replaced with spare
- Removed i\_beam\_coelev, i\_beam\_azimuth; Replaced with i\_spare15(8)
- Deleted i\_DEM\_hires\_src , i\_DEM\_hires\_elv; Replaced with i\_spare44(120)
- Removed i\_FRir\_ODflg; replaced with i\_atm\_char\_flag, i\_atm\_char\_conf, spare48

## GLA15

- Deleted i\_PADPoint(6,40), i\_PODFixedPos(6,40) and replaced with the following:  
i\_campaign(2), i\_spare40, i\_cycTrk, i\_localSolarTime, i\_spare41(7), i\_deltaEllip(40)  
i\_beamCoelv(40), i\_beamAzimuth(40), i\_d2refTrk(40), i\_SigBegOff(40), i\_spare45,  
i\_spare46, i\_ElevBiasCorr i2b(40), i\_spare42(5,40)
- Added i\_bathyElv, replaced i\_spare12
- Renamed i\_reflctUncorr to i\_reflctUC
- Changed i\_erd, i\_rdu to i\_spare16(4)
- Removed i\_atmQF; replaced with spare
- Removed i\_beam\_coelev, i\_beam\_azimuth; Replaced with i\_spare15(8)
- Added i\_kurt2; replaced i\_spare13
- Removed i\_FRir\_ODflg; replaced with i\_atm\_char\_flag, i\_atm\_char\_conf, spare48
- Resized i\_spare7; replaced with i\_spare2, i\_gASP