SRTM15+V2.1 changelog – February, 2020

Ocean:

- Predicted depths are now based on Marine gravity grid, version 29. This grid uses an additional year of data from CryoSat-1 and SARAL/Altika as well as two years of Sentinel-3 altimetry.

- The low-pass filter wavelength used in generating the downward-continued gravity for predicted depths was reduced to 5.9 km from 7.9 km.

- Duplicate soundings were flagged when they were within a 1 minute distance from a higher ranked sounding. The ranking is:

```
CCOM_count.grd          01
GEOMAR_count.grd        02
NAVO_count.grd          03
IBCAO_count.grd         04
GEBCO_count.grd         05
NOAA_count.grd          06
AGSO_count.grd          07
NGDC_count.grd          08
JAMSTEC_count.grd       09
JAMSTEC2_count.grd      10
US_multi_count.grd      11
3DGBR_count.grd         12
SIO_count.grd           13
NGA2_count.grd          14
NGA_count.grd           15
DNC_count.grd           16
NOAA_GEODAS_count.grd   17
IFREMER_count.grd       18
```

- Grid cells along some coastlines that were erroneously set as NaNs have been replaced with values.

- All AGSO (now Geoscience Australia) data has been replaced with a new version of the Geoscience Australia database (accessed from: https://marine.ga.gov.au/#/). This has fixed an error which resulted in a static shift of a few km's in the position of these data. Correcting this shift brought the ASGO data in alignment with other data in the region.

- Over 200 edits have been applied to the global grid to manually remove erroneous data from the shipboard database such as bad outer beam tracks and static shifts likely caused by bad water velocities.

Land:

- Above 60° north some gaps in ArticDEM (which were previously filled by interpolation) have been blended with data from ASTER V3.

- Nunivak Island (which contained erroneous NaN values) has been replaced with ASTER V3 data.

- A Russian Peninsula [long: 170.05 170.50 lat: 59.91 60] (which contained erroneous NaN values) has been replaced with ASTER V3 data.

- Land between 56–60° South (the South Sandwich Islands) were erroneously set as zeros. These have been replaced using ASTER V3 data.

- Sub Antarctic Islands: Elephant Island, South Orkney Islands, South Shetland Islands, Balleny islands and Peter I Island were erroneously set as zeros. These have been replaced using ASTER V3 data.