

IDEAS+ Daily Report for GOP data:

<u>07/02/2017</u>

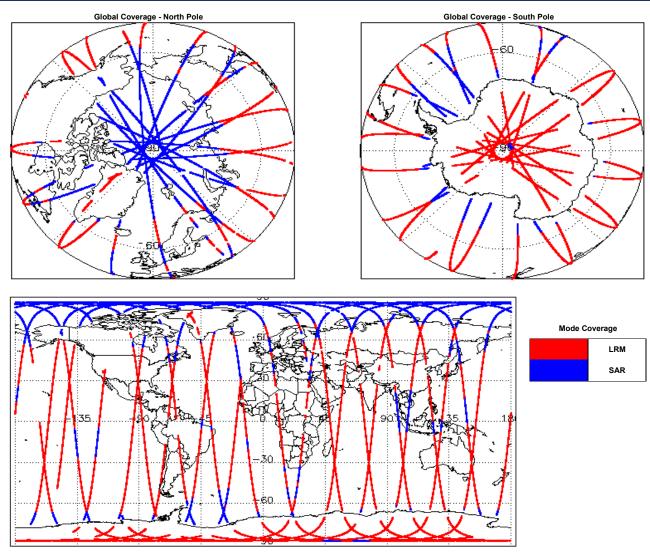
See Section 4.6, 5.6, 5.7 and 5.8

| 1. Overview | | | | | |
|---|----------------------------------|---|-----------------|--|--|
| Depart Production Data 14 May 2017 Check Status | | | | | |
| Report Production Date: | 14-Mar-2017 | Server check: science-pds.cryosat.esa.int | Nominal | | |
| Processor Used: | CryoSat Ocean Processor | Server check: calval-pds.cryosat.esa.int | Nominal | | |
| | | Product Software Check | Nominal | | |
| Data Usadi | Geophysical Ocean Products (GOP) | Product Format Check | Nominal | | |
| Data Used: | L1B and L2 Science Data | Product Header Analysis | Nominal | | |
| | | Auxiliary Data File Usage Check | Nominal | | |
| | | Auxiliary Correction Error Check | See Section 5.4 | | |

Measurement Confidence Data Check

| [| Mission / Instrument News | | | |
|---|---------------------------|--|--|--|
| | 06-Feb-2017 | None | | |
| | 07-Feb-2017 | SIRAL unavailability on 7-Feb-2017 from 13:26:13 to 15:21:08 due to a planned orbit manoeuvre. | | |
| | 08-Feb-2017 | Nothing planned | | |





3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL instrument(s) in use:

SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL). Number of products with errors: 0

4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

| 4.3 L1B Auxilary Data File Usage Check | | |
|---|---|--|
| ach product is checked for missing Data Set Descriptors with respect to a pre | e-determined baseline and also to check the va | lidity of Auxiliary Data Files is correct. |
| lumber of products with errors: 0 | | |
| .4 L1B Auxiliary Correction Error Check | | |
| ryoSat L1B data includes a correction error flag (field 60) for each measurem | ent record. The bit value of this flag indicates a | iny problems when set. |
| lumber of products with errors: 0 | | |
| 1.5 L1B Measurement Confidence Data Check | | |
| | | |
| ryoSat L1B data includes a measurement confidence flag (field 12) for each r | neasurement record. The bit value of this flag i | ndicates any problems when set. |
| umber of products with errors: 0 | | |
| .6 L1B Waveform Group Data Check | | |
| ryoSat L1B data includes a waveform data flag (field 65) for each measureme | ent record. The bit value of this flag indicates a | ny problems when set. |
| oss of Echo Flag: This flag is currently set for products over land, but this is | to be expected. | |
| umber of products with errors: 16 | | |
| roduct | Test Failed | Description |
| S_OFFL_SIR_GOP_1B_20170207T000716_20170207T000759_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T011752_20170207T012508_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T014640_20170207T020043_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T032918_20170207T033710_B001 S_OFFL_SIR_GOP_1B_20170207T044358_20170207T044427_B001 | Loss of Echo | The tracking echo is missing for one or more records The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_201702071044336_201702071044427_6001 S_OFFL_SIR_GOP_1B_20170207T053652_20170207T055241_8001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T060348_20170207T060636_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T062524_20170207T063645_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T064011_20170207T064141_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T114943_20170207T115132_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T120136_20170207T120315_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T161726_20170207T161955_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T174124_20170207T175702_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| S_OFFL_SIR_GOP_1B_20170207T175903_20170207T180826_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170207T231538_20170207T231656_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170207T231656_20170207T232657_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| 5. G | OP Level 2 Data Quality Ch | eck |
| .1 L2 Product Format Check | - | |
| | un an air an air an tha an MAN ha an air air air an tha air an tha air an tha air air air air air air air air a | UDD) and a machine (10 (DD)) |
| ach product, retrieved and unpacked from the science server, is checked to e lumber of products with errors: 0 | ensure it consists of both an XML header file (.) | HDR) and a product file (.DBL). |
| | | |
| 5.2 L2 Product Header Analysis | | |
| or all products, a series of pre-defined checks are performed on the MPH and | SPH in order to identify any inconsistencies a | nd/or errors raised by the ground-segment processing chain. |
| umber of products with errors: 0 | | |
| .3 L2 Auxiliary Data File Usage Check | | |
| | determined becaling and also to sheet the us | lidity of Augulians Data Files is someth |
| ach product is checked for missing Data Set Descriptors with respect to a pre /ind Model File Usage: This file is currently not included in all L2 products. | e-determined baseline and also to check the va | |
| lumber of products with errors: 0 | | |
| | | |
| 6.4 L2 Auxiliary Correction Error Check | | |
| or all products, the auxiliary corrections within the Geophysical Group are che | ecked for the default error value (32767). | |
| urrently, there are two common auxiliary correction errors raised in the ollowed by a table highlighting any additional issues which may arise fr | | o surface type. All common flags are summarised in the list below, |
| ea State Bias Error: The error value is currently set for products over land a | | |
| Itimetric Wind Speed Error: The error value is currently set for products over land a | | |
| lumber of products with errors: 16 | ., | |
| Product | Test Failed | Description |
| | Total Geocentric Ocean Tide (FES), Non | There is an error with the Total Geocentric Ocean Tide height (solution 2 |
| CS_OFFL_SIR_GOP_220170207T000716_20170207T000759_B001 | Equilibrium Long Period Ocean Tide | more records |
| | Total Geocentric Ocean Tide (FES), Non | There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or |
| CS_OFFL_SIR_GOP_220170207T002045_20170207T005550_B001 | Equilibrium Long Period Ocean Tide | more records |

 CS_OFFL_SIR_GOP_2_20170207T034118_20170207T041329_B001
 Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Non-equilibrium Long Period Ocean Tide

 CS_OFFL_SIR_GOP_2_20170207T034118_20170207T041329_B001
 Total Geocentric Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide Non-equilibrium Long Period Ocean Tide

CS_OFFL_SIR_GOP_2_20170207T051442_20170207T051537_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Equilibrium Long Period Ocean Tide more records

| CS_OFFL_SIR_GOP_220170207T053652_20170207T055241_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
|---|--|---|
| CS_OFFL_SIR_GOP_220170207T083135_20170207T083306_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170207T122351_20170207T122513_B001 | Mean Sea Surface (2) | There is an error with the MSS height (solution 2) for one or more records |
| CS_OFFL_SIR_GOP_220170207T131656_20170207T132614_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170207T163905_20170207T164032_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170207T170906_20170207T171049_B001 | Total Geocentric Ocean Tide (FES) | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records |
| CS_OFFL_SIR_GOP_220170207T175903_20170207T180825_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170207T182843_20170207T183319_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170207T183433_20170207T183628_B001 | Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170207T185330_20170207T190124_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |
| CS_OFFL_SIR_GOP_220170207T195804_20170207T200443_B001 | Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide | There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records |

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 0

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean (field 25) and Ice (field 30) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 32

Number of products with errors:

| Product | Test Failed | Description |
|--|----------------------------|--|
| CS_OFFL_SIR_GOP_220170207T010126_20170207T010641_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T023959_20170207T024126_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T024133_20170207T024543_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T041457_20170207T042025_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T042025_20170207T042031_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170207T042031_20170207T042037_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T042038_20170207T042044_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T042044_20170207T042316_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T050311_20170207T050428_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T055424_20170207T055922_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T055922_20170207T055929_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T055936_20170207T055942_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170207T060001_20170207T060122_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T073345_20170207T073834_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T073834_20170207T073840_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T073914_20170207T074024_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T091417_20170207T091749_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T091757_20170207T091806_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T091812_20170207T092139_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T105205_20170207T105703_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T105710_20170207T110039_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T123203_20170207T123734_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T155338_20170207T155534_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T173240_20170207T173444_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T173543_20170207T173946_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T182637_20170207T182735_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |

| CS_OFFL_SIR_GOP_220170207T191041_20170207T191849_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
|---|----------------------------|---|
| CS_OFFL_SIR_GOP_220170207T204923_20170207T205129_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T205202_20170207T205729_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T213836_20170207T213936_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T222844_20170207T222945_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T223131_20170207T223732_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 25

Number of products with errors:

| Product | Test Failed | Description |
|--|----------------------------------|--|
| CS_OFFL_SIR_GOP_220170207T010126_20170207T010641_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170207T023959_20170207T024126_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T024133_20170207T024543_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T042025_20170207T042031_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T042031_20170207T042037_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T042038_20170207T042044_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T042044_20170207T042316_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T050311_20170207T050428_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T055936_20170207T055942_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T073834_20170207T073840_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T073914_20170207T074024_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T091417_20170207T091749_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T091812_20170207T092139_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T105205_20170207T105703_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T105710_20170207T110039_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T123203_20170207T123734_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T155338_20170207T155534_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T173240_20170207T173444_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T173543_20170207T173946_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T182637_20170207T182735_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T191041_20170207T191849_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T204923_20170207T205129_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T205202_20170207T205729_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170207T222844_20170207T222945_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170207T223131_20170207T223732_B001 | Ice Backscatter Averaging Status | The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| | | |

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

6. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

| Product type | No. Products | No. QCC Reports | No. Valid | No. Warnings | No. Errors |
|--------------|--------------|-----------------|-----------|--------------|------------|
| SIR_GOP_1B | 273 | 273 | 273 | 0 | 0 |
| SIR_GOP_2 | 267 | 267 | 267 | 0 | 0 |

6.1 QCC Errors

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| 6.2 QCC Warnings | |
|--|---|
| Number of QCC reports with warnings | 0 |
| 6.3 Missing QCC Reports | |
| Number of products with missing QCC reports: | 0 |