

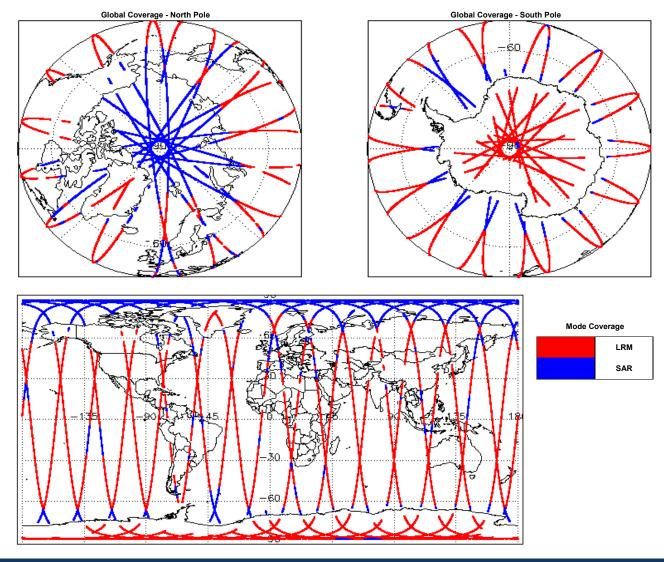
IDEAS+ Daily Report for GOP data:

<u>03/04/2017</u>

| Report Production Date: Processor Used: | 04-May-2017 | Server check: science-pds.cryosat.esa.int | Nominal |
|---|----------------------------------|---|---|
| Processor Used: | CrueSet Oscar Brasses | Conversion allocation and an instant | |
| FIOCESSOI USEU. | | Server check: calval-pds.cryosat.esa.int | Nominal |
| | CryoSat Ocean Processor | 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 | See Section 4.5, 4.6, 5.5, 5.6, 5.7 and 5.8 |

| 03-Apr-2017 | None |
|-------------|-----------------|
| 04-Apr-2017 | Nothing planned |

2. Global Coverage



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 | | | | |
|---|---|---|--|--|
| Each product is checked for missing Data Set Descriptors with respect to a pre-dete | ermined baseline and also to check the va | lidity of Auxiliary Data Files is correct. | | |
| Number of products with errors: 0 | | | | |
| 4.4 L1B Auxiliary Correction Error Check | | | | |
| CryoSat L1B data includes a correction error flag (field 60) for each measurement ro | ecord. The bit value of this flag indicates a | any problems when set. | | |
| Number of products with errors: 0 | | | | |
| 4.5 L1B Measurement Confidence Data Check | | | | |
| CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set. | | | | |
| Number of products with errors: 1 | | | | |
| Product | Test Failed | Description | | |
| CS_OFFL_SIR_GOP_1B_20170403T142208_20170403T143426_B001 | Power scaling error | There is an error in the scaling of the L1B waveform for one or more records | | |

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag (field 65) for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

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Number of products with errors:

| Product | Test Failed | Description |
|---|--------------|--|
| CS_OFFL_SIR_GOP_1B_20170403T000139_20170403T000315_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T031139_20170403T031843_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T032845_20170403T033911_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T045018_20170403T045629_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T062840_20170403T063734_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T101551_20170403T102359_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T142208_20170403T143426_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T162443_20170403T162857_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T163106_20170403T163207_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T163437_20170403T163519_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T180026_20170403T180809_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T210829_20170403T211007_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T211939_20170403T212031_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T212213_20170403T213003_B001 | Loss of Echo | The tracking echo is missing for one or more records |
| CS_OFFL_SIR_GOP_1B_20170403T230017_20170403T231311_B001 | Loss of Echo | The tracking echo is missing for one or more records |

5. GOP Level 2 Data Quality Check

5.1 L2 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

5.2 L2 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

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Wind Model File Usage: This file is currently not included in all L2 products.

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are two common auxiliary correction errors 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.

Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected.

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Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

| Product | Test Failed | Description |
|---|---|---|
| CS_OFFL_SIR_GOP_220170403T000139_20170403T000315_B001 | Total Geocentric Ocean Tide (FES), Non- | 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_220170403T000315_20170403T003653_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_220170403T023406_20170403T024706_B001 | For Long Period Ocean Tide (FES), Non- | 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_220170403T024706_20170403T024920_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_220170403T030140_20170403T030405_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_220170403T031139_20170403T031843_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_220170403T032845_20170403T033911_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_220170403T045018_20170403T045629_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_220170403T063734_20170403T063838_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_220170403T095545_20170403T095627_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_220170403T112054_20170403T112244_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_220170403T114129_20170403T114225_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_220170403T122600_20170403T125912_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_220170403T142208_20170403T143426_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_220170403T163106_20170403T163207_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_220170403T163806_20170403T164516_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_220170403T212213_20170403T213003_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_220170403T225337_20170403T225618_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_220170403T230017_20170403T231311_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:

| Product | Test Failed | Description |
|---|---------------------|---|
| CS_OFFL_SIR_GOP_220170403T142208_20170403T143426_B001 | Power scaling error | There is an error in the scaling of the L2 waveform for one or more records |

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. 30

Number of products with errors:

| Test Failed | Description |
|----------------------------|---|
| Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
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| Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| | Ice Range Averaging Status |

| CS_OFFL_SIR_GOP_220170403T121641_20170403T121936_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
|---|----------------------------|--|
| CS_OFFL_SIR_GOP_220170403T135648_20170403T135842_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T140107_20170403T140332_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T145043_20170403T145444_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T153529_20170403T153759_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T153823_20170403T154248_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T171312_20170403T172203_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T185240_20170403T185420_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T185526_20170403T185952_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T203441_20170403T204030_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T221347_20170403T221901_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T235221_20170403T235347_B001 | Ice Range Averaging Status | The Ice Range Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_220170403T235355_20170403T235803_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:

| CS_OFFL_SIR_GOP_2_20170403T004016_20170403T004430_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T004448_20170403T004344_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T012832_20170403T013116_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T012832_20170403T012332_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022341_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022347_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022347_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T02347_20170403T02545_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T053749_20170403T054156_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T05414_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records. <td< th=""></td<> |
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| CS_OFFL_SIR_GOP_2_201704031004448_201704031004844_B001Ice Backscatter Averaging Statusrecords.CS_OFFL_SIR_GOP_2_20170403T012832_20170403T012832_20170403T02239_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022341_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022347_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022347_20170403T022345_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T040303_20170403T04418_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T054749_20170403T054156_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T054217_20170403T054414_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T071544_20170403T072411_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072411_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T072116_2017040 |
| CS_OFFL_SIR_GOP_2_201704031012832_201704031013116_B001Ice Backscatter Averaging Statusrecords.CS_OFFL_SIR_GOP_2_20170403T022341_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022341_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022347_20170403T022347_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T0403T022347_20170403T02245_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T0403T040418_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T054217_20170403T054414_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T071544_20170403T072110_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072441_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072441_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072441_B001 <td< td=""></td<> |
| CS_OFFL_SIR_GOP_2_201704031022341_201704031022347_B001Ice Backscatter Averaging Statusrecords.CS_OFFL_SIR_GOP_2_20170403T022341_20170403T022347_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T022347_20170403T022545_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T0403T0403T040418_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T053749_20170403T054156_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T054217_20170403T054414_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T071544_20170403T072110_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072411_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001 <t< td=""></t<> |
| CS_OFFL_SIR_GOP_2_201704031022341_201704031022347_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_GOP_2_201704031022347_201704031022545_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031040303_201704031040418_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031053749_201704031054156_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031054217_201704031054414_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031071544_201704031072110_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031072116_201704031072441_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031085543_201704031090348_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031085543_201704031090348_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403102234/_201704031022545_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T040303_20170403T054156_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T054217_20170403T054156_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T054217_20170403T054414_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T071544_20170403T072110_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072411_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_2017040310403305_201704031040418_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_GOP_2_201704031053749_201704031054156_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031054217_201704031054414_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031071544_201704031072110_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031072116_201704031072441_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031072116_201704031072441_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031085543_201704031090348_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_201704031053745_201704031054156_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_GOP_2_201704031054217_201704031054144_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031071544_201704031072110_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031072116_201704031072411_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031072116_201704031072441_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201704031085543_201704031090348_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
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| CS_OFFL_SIR_GOP_2_201704031071544_201704031072110_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072441_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20170403T072116_20170403T072441_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_GOP_2_20170403T085543_20170403T090348_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIK_GOF_Z_201704031085543_201704031090348_B001 ICE Backscatter Averaging Status records. |
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| CS_OFFL_SIR_GOP_2_20170403T103519_20170403T104036_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T121641_20170403T121936_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T135648_20170403T135842_B001 Ice Backscatter Averaging Status Ice Backscatter Ice Backscatter Ic |
| CS_OFFL_SIR_GOP_2_20170403T140107_20170403T140332_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T145043_20170403T145444_B001 Ice Backscatter Averaging Status Ice Backscatter Ice Backscatter Ic |
| CS_OFFL_SIR_GOP_2_20170403T153529_20170403T153759_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T153823_20170403T154248_B001 Ice Backscatter Averaging Status Ice Backscatter Ice Backscatter Ic |
| CS_OFFL_SIR_GOP_2_20170403T171312_20170403T172203_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T185240_20170403T185420_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T185526_20170403T185952_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T203441_20170403T204030_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T221347_20170403T221901_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. |
| CS_OFFL_SIR_GOP_2_20170403T235355_20170403T235803_B001 Ice Backscatter Averaging Status and the loce 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.

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 | 258 | 258 | 258 | 0 | 0 |
| SIR_GOP_2 | 255 | 255 | 255 | 0 | 0 |
| 6.1 QCC Errors | | | | | |
| Number of products with QCC e | rrors: 0 | | | | |
| 6.2 QCC Warnings | | | | | |
| Number of QCC reports with wa | rnings 0 | 1 | | | |
| 6.3 Missing QCC Repo | rts | | | | |
| Number of products with missin | og QCC reports: 0 | | | | |