



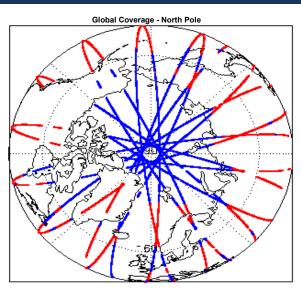
1. Overview

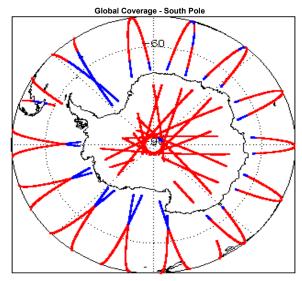
Report Production Date:	31-May-2017			
Processor Used:	CryoSat Ocean Processor			
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data			

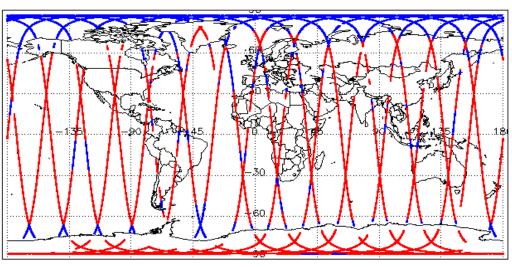
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6, 5.5, 5.6, 5.7 and 5.8

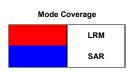
Mission / Instru	ment News
29-Apr-2017	None
30-Apr-2017	None
01-May-2017	Nothing planned

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.

4.3 L1B Auxilary 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.

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 60) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

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:

Product

Test Failed Description There is an error in the scaling of the L1B waveform for one or more CS_OFFL_SIR_GOP_1B_20170430T031154_20170430T031852_B001 Power scaling error records There is an error in the scaling of the L1B waveform for one or more CS OFFL SIR GOP 1B 20170430T144554 20170430T145400 B001 Power scaling error

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20170430T010511_20170430T0111143_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T032027_20170430T032239_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T050613_20170430T051502_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T064306_20170430T065043_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T085211_20170430T090129_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T102124_20170430T102207_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T110326_20170430T113636_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T181811_20170430T182023_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T194854_20170430T195031_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T195352_20170430T195403_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T195946_20170430T200735_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T212653_20170430T212850_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T213800_20170430T215044_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170430T222419_20170430T222534_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:

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:

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

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_2_20170430T003746_20170430T005349_B001	Fouilibrium 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_2_20170430T012439_20170430T012652_B001		There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20170430T013904_20170430T014133_B001	Fouilibrium 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_220170430T020614_20170430T021640_B001	Fauilibrium 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_2_20170430T021640_20170430T021819_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_220170430T051502_20170430T051609_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_2_20170430T065353_20170430T065521_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_220170430T100110_20170430T100943_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
	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_220170430T125936_20170430T131203_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_2_20170430T151842_20170430T151858_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Mean Sea Surface height for one or more records
CS_OFFL_SIR_GOP_220170430T163700_20170430T163800_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
	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_2_20170430T194854_20170430T195031_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_2_20170430T195352_20170430T195403_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_2_20170430T213109_20170430T213248_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:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20170430T031154_20170430T031852_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20170430T144554_20170430T145400_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170430T005541_20170430T010059_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T010106_20170430T010112_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T010112_20170430T010118_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T010118_20170430T010317_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T024017_20170430T024028_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T024034_20170430T024149_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T041515_20170430T041926_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170430T041933_20170430T041941_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T041948_20170430T042137_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T055316_20170430T055840_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T055847_20170430T060212_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T073312_20170430T074119_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T091249_20170430T091806_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T105406_20170430T105706_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T123419_20170430T123613_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T123843_20170430T124059_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T132815_20170430T133219_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170430T141301_20170430T141529_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170430T141555_20170430T142020_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170430T155044_20170430T155933_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170430T173009_20170430T173152_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220170430T173256_20170430T173723_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T191211_20170430T191801_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T205117_20170430T205632_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T222953_20170430T223118_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170430T223118_20170430T223125_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170430T223125_20170430T223534_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.

Number of products with errors:

23

CS_OFFL_SIR_GOP_2_20170430T010106_20170430T010112_B001	Product	Test Failed	Description
CS_OFF_SIR_GOP_2_01704301101112_201704301001116_5001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301041932_0170430104198001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301041948_201704301041981_0001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301041948_20170430104213_B001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301055316_201704301055840_B001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301053124_201704301074119_B001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0170430105406_20170430105606_B001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0170430105406_201704301105706_B001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301124392_01704301123613_B001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301123632_01704301124059_B001 Loe Backscatter Averaging Status The Loe Backscatter Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_01704301123632_01704301133219_B001 Loe Backscatter Averaging Status The Loe Backs	CS_OFFL_SIR_GOP_220170430T010106_20170430T010112_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20170430T041515_20170430T04192_B001 CS_OFFL_SIR_GOP_2_20170430T041933_20170430T04193_B001 CS_OFFL_SIR_GOP_2_20170430T041948_20170430T041934_B001 CS_OFFL_SIR_GOP_2_20170430T055342_20170430T041934_B001 CS_OFFL_SIR_GOP_2_20170430T055342_20170430T0455544_B001 CS_OFFL_SIR_GOP_2_20170430T055347_20170430T0450540_B001 CS_OFFL_SIR_GOP_2_20170430T055347_20170430T04506212_B001 CS_OFFL_SIR_GOP_2_20170430T055347_20170430T04506_B001 CS_OFFL_SIR_GOP_2_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T05406_20170430T0550_B001 CS_OFFL_SIR_GOP_2_20170430T05406_20170430T105706_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T123413_B001 CS_OFFL_SIR_GOP_2_20170430T123432_20170430T123419_20170430T123419_20170430T123419_20170430T123419_20170430T123419_20170430T123419_20170430T123419_20170430T142059_B001 CS_OFFL_SIR_GOP_2_20170430T14301_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T14301_20170430T14520B001 CS_OFFL_SIR_GOP_2_20170430T14301_20170430T14504001_201504201	CS_OFFL_SIR_GOP_2_20170430T010112_20170430T010118_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20170430T04932_20170430T049141_B001 CS_OFFL_SIR_GOP_2_20170430T04932_20170430T049141_B001 CS_OFFL_SIR_GOP_2_20170430T055316_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T055316_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T055312_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T055312_20170430T05540_B001 CS_OFFL_SIR_GOP_2_20170430T055312_20170430T057540_B001 CS_OFFL_SIR_GOP_2_20170430T055312_20170430T057540_B001 CS_OFFL_SIR_GOP_2_20170430T055312_20170430T051240_B001 CS_OFFL_SIR_GOP_2_20170430T05312_20170430T074119_B001 CS_OFFL_SIR_GOP_2_20170430T05312_20170430T07419_B001 CS_OFFL_SIR_GOP_2_20170430T05408_20170430T091806_B001 CS_OFFL_SIR_GOP_2_20170430T105408_20170430T105706_B001 CS_OFFL_SIR_GOP_2_20170430T105408_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T132319_B001 CS_OFFL_SIR_GOP_2_20170430T1430412_20170430T132319_B001 CS_OFFL_SIR_GOP_2_20170430T1430412_20170430T144509_B001 CS_OFFL_SIR_GOP_2_20170430T141301_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141301_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141301_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141505_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141505_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T173009_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T173009_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T173009_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T173009_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17305_20170430T17315	CS_OFFL_SIR_GOP_220170430T024034_20170430T024149_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20170430T041948_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T055816_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T055847_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T055847_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T055847_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T073312_20170430T073112_B001 CS_OFFL_SIR_GOP_2_20170430T07312_20170430T073112_B001 CS_OFFL_SIR_GOP_2_20170430T091249_20170430T091806_B001 CS_OFFL_SIR_GOP_2_20170430T091249_20170430T091806_B001 CS_OFFL_SIR_GOP_2_20170430T105406_20170430T105706_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T12343_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T12343_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T12343_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T12343_20170430T124059_B001 CS_OFFL_SIR_GOP_2_20170430T14301_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T14301_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141301_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T141552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T14552_20170430T14529_B001 CS_OFFL_SIR_GOP_2_20170430T14552_20170430T145593_B001 CS_OFFL_SIR_GOP_2_20170430T14552_20170430T145593_B001 CS_OFFL_SIR_GOP_2_20170430T14552_20170430T145593_B001 CS_OFFL_SIR_GOP_2_20170430T14550_20170430T145593_B001 CS_OFFL_SIR_GOP_2_20170430T1455_20170430T145593_B001 CS_OFFL_SIR_GOP_2_20170430T1455_20170430T145593_B001 CS_OFFL_SIR_GOP_2_20170430T1455_20170430T145593_B001 CS_OFFL_SIR_GOP_2_20170430T1455_20170430T14505632_B001 CS_OF	CS_OFFL_SIR_GOP_2_20170430T041515_20170430T041926_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20170430T055316_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T055847_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T055847_20170430T055840_B001 CS_OFFL_SIR_GOP_2_20170430T055847_20170430T051119_B001 CS_OFFL_SIR_GOP_2_20170430T073312_20170430T074119_B001 CS_OFFL_SIR_GOP_2_20170430T091249_20170430T091806_B001 CS_OFFL_SIR_GOP_2_20170430T091249_20170430T091806_B001 CS_OFFL_SIR_GOP_2_20170430T105406_20170430T105706_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T105706_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T123419_20170430T124059_B001 CS_OFFL_SIR_GOP_2_20170430T132843_20170430T124059_B001 CS_OFFL_SIR_GOP_2_20170430T132843_20170430T133219_B001 CS_OFFL_SIR_GOP_2_20170430T132815_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141555_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T14555_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T14555_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T14555_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T14555_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T14555_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T14305_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T14305_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T173256_20170430T173725_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T173256_20170430T173050_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173050_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173050_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173050_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173050_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173050_B001 CS_OFFL_SIR_GOP_2_20170430T17309_20170430T173050_B0	CS_OFFL_SIR_GOP_220170430T041933_20170430T041941_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20170430T05531e_20170430T0560212_B001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Backscatter Averaging Status Flag has been set for one or more records. The Ice Bac	CS_OFFL_SIR_GOP_2_20170430T041948_20170430T042137_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20170430T1059847_20170430T091806_B001	CS_OFFL_SIR_GOP_2_20170430T055316_20170430T055840_B001	Ice Backscatter Averaging Status	
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CS_OFFL_SIR_GOP_2_20170430T123419_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T123843_20170430T123613_B001 CS_OFFL_SIR_GOP_2_20170430T132845_20170430T133219_B001 CS_OFFL_SIR_GOP_2_20170430T132815_20170430T133219_B001 CS_OFFL_SIR_GOP_2_20170430T141301_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141301_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141555_20170430T141529_B001 CS_OFFL_SIR_GOP_2_20170430T141555_20170430T142020_B001 CS_OFFL_SIR_GOP_2_20170430T155044_20170430T155933_B001 CS_OFFL_SIR_GOP_2_20170430T155044_20170430T155933_B001 CS_OFFL_SIR_GOP_2_20170430T173009_20170430T173152_B001 CS_OFFL_SIR_GOP_2_20170430T173256_20170430T173723_B001 CS_OFFL_SIR_GOP_2_20170430T173256_20170430T173723_B001 CS_OFFL_SIR_GOP_2_20170430T173256_20170430T173723_B001 CS_OFFL_SIR_GOP_2_20170430T191211_20170430T191801_B001 CS_OFFL_SIR_GOP_2_20170430T191211_20170430T191801_B001 CS_OFFL_SIR_GOP_2_20170430T22953_20170430T223534_B001 CS_OFFL_SIR_GOP_2_20170430T222953_20170430T223118_B001 CS_OFFL_SIR_GOP_2_20170430T222953_20170430T223118_B001 CS_OFFL_SIR_GOP_2_20170430T222953_20170430T223334_B001 CS_OFFL_SIR_GOP_2_20170430T222953_20170430T223334_B001 CS_OFFL_SIR_GOP_2_20170430T223115_20170430T223334_B001 CS_OFFL_SIR_GOP_3_20170430T223115_20170430T223334_B001 CS_OFFL_SIR_GOP_3_20170430T223115_20170430T223334_B001 CS_OFFL_SIR_GOP_3_20170430T223115_20170430T223334_B001 CS_OFFL_SIR_GOP_3_20170430T223115_20170430T223334_B001 CS_OFFL_SIR_GOP_3_20170430T223115_20170430T223334_B001 CS_OFFL_SIR_GOP_3_20170430T2231	CS_OFFL_SIR_GOP_2_20170430T091249_20170430T091806_B001	Ice Backscatter Averaging Status	
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	CS_OFFL_SIR_GOP_220170430T223125_20170430T223534_B001	Ice Backscatter Averaging Status	

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: 164

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	274	274	274	0	0
SIR GOP 2	267	267	267	0	0

6.1 QCC Errors

Number of products with QCC errors:

C

6.2 QCC Warnings

6.3 Missing QCC Reports

Number of products with missing QCC reports:

0