



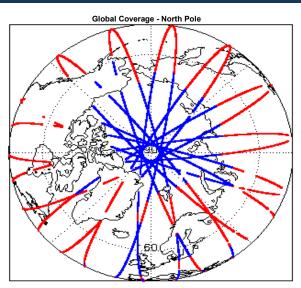
1. Overview

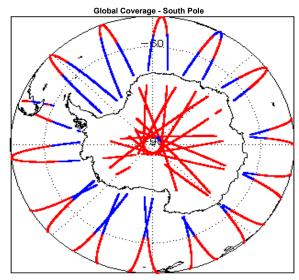
Report Production Date:	20-Sep-2017		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data		

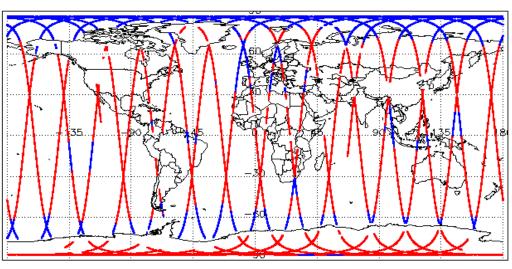
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

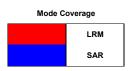
Mission / Instru	Mission / Instrument News		
20-Aug-2017	None		
21-Aug-2017	None		
22-Aug-2017	Nothing planned		

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
CS_OFFL_SIR_GOP_1B_20170821T002938_20170821T003401_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOP_1B_20170821T084329_20170821T090143_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOP_1B_20170821T114339_20170821T114843_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_20170821T015604_20170821T020336_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T033506_20170821T034303_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T051318_20170821T052313_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T055816_20170821T060509_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T081320_20170821T082243_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T145911_20170821T145952_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T163909_20170821T163941_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T165243_20170821T170034_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T183152_20170821T183854_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T213349_20170821T214100_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170821T214945_20170821T215658_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_20170821T001806_20170821T002821_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_20170821T020422_20170821T021136_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_20170821T054038_20170821T055816_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_20170821T061734_20170821T063410_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_20170821T063851_20170821T065322_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

CS_OFFL_SIR_GOP_2_20170821T081320_20170821T082243_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_20170821T084329_20170821T090143_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_20170821T101240_20170821T101901_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_20170821T111625_20170821T113935_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_20170821T150512_20170821T150815_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_20170821T170035_20170821T173536_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_20170821T185937_20170821T191510_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_2_20170821T194635_20170821T194848_B001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_GOP_2_20170821T202809_20170821T203208_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_20170821T203215_20170821T203834_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_20170821T233701_20170821T233803_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

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_2_20170821T002938_20170821T003401_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_20170821T084329_20170821T090143_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_20170821T114339_20170821T114843_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.

Test Failed

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.

Ice Range Averaging Status

Description

records

records

records.

The Ice Range Averaging Status Flag has been set for one or more

The Ice Range Averaging Status Flag has been set for one or more

The Ice Range Averaging Status Flag has been set for one or more

The Ice Range Averaging Status Flag has been set for one or more

The Ice Range Averaging Status Flag has been set for one or more

The Ice Range Averaging Status Flag has been set for one or more

The Ice Range Averaging Status Flag has been set for one or more

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:

CS_OFFL_SIR_GOP_2__20170821T010617_20170821T011118_B001

CS_OFFL_SIR_GOP_2__20170821T174009_20170821T174356_B001

CS_OFFL_SIR_GOP_2_20170821T174403_20170821T174410_B001

CS_OFFL_SIR_GOP_2_20170821T174415_20170821T174811_B001

CS_OFFL_SIR_GOP_2_20170821T182801_20170821T183042_B001

CS_OFFL_SIR_GOP_2_20170821T192255_20170821T192301_B001

CS_OFFL_SIR_GOP_2__20170821T192302_20170821T192308_B001

Product

		records.
CS_OFFL_SIR_GOP_220170821T011125_20170821T011453_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T024615_20170821T025149_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T042536_20170821T043045_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T060749_20170821T060948_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T074657_20170821T074858_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T075003_20170821T075400_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T084054_20170821T084200_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T092501_20170821T093302_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T110336_20170821T110545_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T110611_20170821T111147_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T124258_20170821T124405_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T124545_20170821T125024_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T125109_20170821T125141_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170821T142455_20170821T143027_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T160358_20170821T160910_B001	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_2_20170821T192308_20170821T192314_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T192314_20170821T192512_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T205702_20170821T210206_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T210206_20170821T210212_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T210230_20170821T210345_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T223712_20170821T224122_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T224129_20170821T224137_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170821T224144_20170821T224336_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:

25

CS_OFFL_SIR_GOP_2_20170821T01182_20170821T01185_8001 Co_Backscatter Averaging Status The Lote Backscatter Averaging Status Flag has been set for one or more records.	Product	Test Failed	Description	
to Backscatter Averaging Status CS_OFFL_SIR_GOP_2_20170821T042615_20170821T025149_B001 CS_OFFL_SIR_GOP_2_20170821T042538_20170821T043045_B001 CS_OFFL_SIR_GOP_2_20170821T042538_20170821T043045_B001 CS_OFFL_SIR_GOP_2_20170821T04267_20170821T042688_B001 CS_OFFL_SIR_GOP_2_20170821T074657_20170821T074688_B001 CS_OFFL_SIR_GOP_2_20170821T074657_20170821T074689_B001 CS_OFFL_SIR_GOP_2_20170821T042050_20170821T074600_B001 CS_OFFL_SIR_GOP_2_20170821T044657_20170821T04400_B001 CS_OFFL_SIR_GOP_2_20170821T044054_20170821T044200_B001 CS_OFFL_SIR_GOP_2_20170821T044054_20170821T104400_B001 CS_OFFL_SIR_GOP_2_20170821T044054_20170821T104400_B001 CS_OFFL_SIR_GOP_2_20170821T044054_20170821T114405_B001 CS_OFFL_SIR_GOP_2_20170821T144455_20170821T114405_B001 CS_OFFL_SIR_GOP_2_20170821T144455_20170821T114405_B001 CS_OFFL_SIR_GOP_2_20170821T144455_20170821T144405_B001 CS_OFFL_SIR_GOP_2_20170821T144455_20170821T14405_B001 CS_OFFL_SIR_GOP_2_20170821T144455_20170821T143045_B001 CS_OFFL_SIR_GOP_2_20170821T144455_20170821T143045_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T143045_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T143045_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T143045_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T143045_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T142045_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T160345_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T160345_B001 CS_OFFL_SIR	CS_OFFL_SIR_GOP_220170821T010617_20170821T0111118_B001	Ice Backscatter Averaging Status		
Los_OFF_L SIRL_GOP_2_20170821T02405_20170821T043045_8001 De Backscatter Averaging Status The code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag has been set for one or more records. The Code Backscatter Averaging Status Flag	CS_OFFL_SIR_GOP_2_20170821T011125_20170821T011453_B001	Ice Backscatter Averaging Status		
CS_OFF_SIR_GOP_2_0170821104256_201708211060948_B001 CS_OFF_SIR_GOP_2_01708211060749_201708211060948_B001 CS_OFF_SIR_GOP_2_0170821107657_201708211076858_B001 CS_OFF_SIR_GOP_2_01708211075002_01708211075400_B001 CS_OFF_SIR_GOP_2_01708211076005_201708211075400_B001 CS_OFF_SIR_GOP_2_01708211092501_201708211084200_B001 CS_OFF_SIR_GOP_2_01708211092501_201708211093002_B001 CS_OFF_SIR_GOP_2_01708211110336_2017082111093502_B001 CS_OFF_SIR_GOP_2_01708211110336_201708211110545_B001 CS_OFF_SIR_GOP_2_01708211110811_2017082111110814 CS_OFF_SIR_GOP_2_017082111114545_2017082111110814 CS_OFF_SIR_GOP_2_017082111110811_2017082111110814 CS_OFF_SIR_GOP_2_017082111110811_2017082111110814 CS_OFF_SIR_GOP_2_017082111125109_2017082111125004_B001 CS_OFF_SIR_GOP_2_017082111125109_2017082111125004_B001 CS_OFF_SIR_GOP_2_017082111124565_201708211125004_B001 CS_OFF_SIR_GOP_2_017082111124565_201708211125004_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211125004_B001 CS_OFF_SIR_GOP_2_017082111144555_2017082111125004_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_201708211118001 CS_OFF_SIR_GOP_2_017082111144555_20170821118001 CS_OFF_SIR_GOP_2_017082111144555_201708211192006_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211192006_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211192006_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211192006_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211192006_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211192006_B001 CS_OFF_SIR_GOP_2_017082111144555_201708211192006_B001 CS_OFF_SIR_GOP_2_01708211114455_201708211192006_B001 CS_OFF_SIR_GOP_2_017082111148016_B00160000000000000000000000000000000	CS_OFFL_SIR_GOP_2_20170821T024615_20170821T025149_B001	Ice Backscatter Averaging Status		
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CS_OFFL_SIR_GOP_2_20170821T174415_20170821T174811_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T183042_B001 CS_OFFL_SIR_GOP_2_20170821T182801_20170821T183042_B001 CS_OFFL_SIR_GOP_2_20170821T192255_20170821T192301_B001 CS_OFFL_SIR_GOP_2_20170821T192302_20170821T192308_B001 CS_OFFL_SIR_GOP_2_20170821T192302_20170821T192308_B001 CS_OFFL_SIR_GOP_2_20170821T20302_20170821T20308_B001 CS_OFFL_SIR_GOP_2_20170821T20302_20170821T20345_B001 CS_OFFL_SIR_GOP_2_20170821T20302_20170821T20345_B001 CS_OFFL_SIR_GOP_2_20170821T223712_20170821T224122_B001 CS_OFFL_SIR_GOP_2_20170821T223712_20170821T224137_B001 CS_OFFL_SIR_GOP_2_20170821T224129_20170821T224137_B001 CS_OFFL_SIR_GOP_2_20170821T224144_20170821T224137_B001 CS_OFFL_SIR_GOP_2_20170821T224144_20	CS_OFFL_SIR_GOP_2_20170821T160358_20170821T160910_B001	Ice Backscatter Averaging Status		
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CS_OFFL_SIR_GOP_2_20170821T192301_B001	CS_OFFL_SIR_GOP_2_20170821T174415_20170821T174811_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170821T192302_20170821T192308_B001 Ice Backscatter Averaging Status	CS_OFFL_SIR_GOP_2_20170821T182801_20170821T183042_B001	Ice Backscatter Averaging Status	* * *	
CS_OFFL_SIR_GOP_2_20170821T22302_20170821T22035_B001 Ice Backscatter Averaging Status	CS_OFFL_SIR_GOP_2_20170821T192255_20170821T192301_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170821T224122_B001	CS_OFFL_SIR_GOP_2_20170821T192302_20170821T192308_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170821T224122_B001	CS_OFFL_SIR_GOP_220170821T210230_20170821T210345_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_201708211224129_201708211224137_B001 Ice Backscatter Averaging Status records. CS_OFFL_SIR_GOP_2_201708211224144_201708211224336_B001 Ice Backscatter Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220170821T223712_20170821T224122_B001	Ice Backscatter Averaging Status	* * *	
	CS_OFFL_SIR_GOP_2_20170821T224129_20170821T224137_B001	Ice Backscatter Averaging Status		
	CS_OFFL_SIR_GOP_220170821T224144_20170821T224336_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:

134

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	222	222	222	0	0
SIR_GOP_2	221	221	221	0	0

6.1 QCC Errors

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