

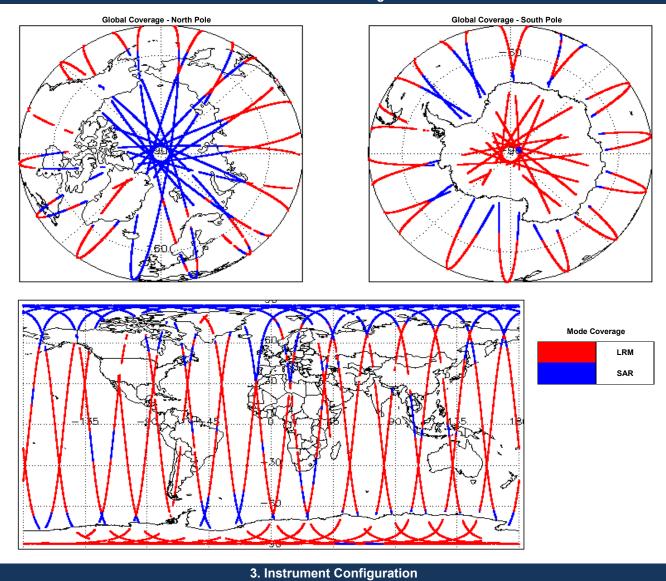
IDEAS+ Daily Report for GOP data:

<u>26/01/2017</u>

Report Production Date:	23-Feb-2017	Check	Status	
	23-Feb-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 Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	
	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 4.6, 5.6, 5.7 and 5.8	

27-Jan-2017	Nothing planned
20-Jan-2017	none

2. Global Coverage



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-	e-determined baseline and also	to check the validity 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 measurem	ent record. The bit value of this	flag indicates 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 r	neasurement record. The bit va	lue of this flag indicates any problems when set.		
Number of products with errors: 0				
4.6 L1B Waveform Group Data Check				
CryoSat L1B data includes a waveform data flag (field 65) for each measurement	ent 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: 13				
Product	Test Failed	Description		
CS_OFFL_SIR_GOP_1B_20170126T001329_20170126T001533_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T015024_20170126T015403_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T034402_20170126T035148_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T035307_20170126T035442_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T053251_20170126T053620_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T061824_20170126T062343_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T065120_20170126T065320_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T070215_20170126T070900_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T120424_20170126T120906_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T181350_20170126T182313_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T191840_20170126T191952_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T201315_20170126T201929_B001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_GOP_1B_20170126T215325_20170126T215425_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.

17

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_220170126T015611_20170126T015740_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_220170126T015908_20170126T020130_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_220170126T033908_20170126T034050_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_220170126T052858_20170126T053018_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_220170126T053251_20170126T053620_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_220170126T080058_20170126T082342_B001	For the second s	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_220170126T083330_20170126T083614_B001	LIOTAL GEOCENTRIC UCEAN LIDE (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_20170126T120424_20170126T120906_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 CS_OFFL_SIR_GOP_2_20170126T121542_20170126T122256_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 CS_OFFL_SIR_GOP_2_20170126T121542_20170126T133445_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 CS_OFFL_SIR_GOP_2_20170126T133445_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 CS_OFFL_SIR_GOP_2_20170126T15353_20170126T152315_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Oce
CS_OFFL_SIR_GOP_2_20170126T121542_20170126T122256_B001 Total Geocentric Ocean Tide (FES), Non- FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_GOP_2_20170126T133428_20170126T133445_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170126T133428_20170126T133445_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: more records Total Geocentric Ocean Tide Total Geocentric Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution 2: Total Geocentric Ocean Tide (FES) Non- There is an error with the Total Geocentric Ocean Tide height (solution 2:
CS_OFFL_SIR_GOP_2_20170126T133428_20170126T133445_B001 Equilibrium Long Period Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records Total Geocentric Ocean Tide (FES) Non- There is an error with the Total Geocentric Ocean Tide height (solution 2:
Equilibrium Long Period Ocean Tide more records
CS_OFFL_SIR_GOP_2_20170126T152535_20170126T153548_B001 Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Period 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_20170126T181350_20170126T182313_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_20170126T215007_20170126T215047_B001 Total Geocentric Ocean Tide (GOT), There is an error with the Total Geocentric Ocean Tide height (solution 1: Total Geocentric Ocean Tide (FES), Non- GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide Equilibrium Long Period Ocean Tide Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170126T215047_20170126T215307_B001 Total Geocentric Ocean Tide (GOT), There is an error with the Total Geocentric Ocean Tide height (solution 1: CS_OFFL_SIR_GOP_2_20170126T215047_20170126T215307_B001 Total Geocentric Ocean Tide (FES), Non- GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Equilibrium Long Period Ocean Tide Tide height for one or more records Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170126T225348_20170126T232332_B001 Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide 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. 35

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170126T002433_20170126T003232_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T011608_20170126T012128_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T025457_20170126T025610_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T025618_20170126T030024_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T043000_20170126T043508_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T043514_20170126T043521_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T043521_20170126T043528_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T043528_20170126T043827_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T051835_20170126T052202_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T061413_20170126T061419_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T061419_20170126T061425_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T061425_20170126T061437_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T061445_20170126T061611_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T070215_20170126T070900_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T074816_20170126T075316_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T075317_20170126T075324_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T075324_20170126T075335_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T075358_20170126T075501_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T092857_20170126T093233_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T093255_20170126T093608_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T110639_20170126T111147_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T111154_20170126T111521_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T124638_20170126T125219_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T125304_20170126T125421_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T142603_20170126T143113_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T160805_20170126T161016_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T174726_20170126T174924_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_2_20170126T175048_20170126T175427_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more
CS_OFFL_SIR_GOP_2_20170126T184120_20170126T184250_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more
CS_OFFL_SIR_GOP_2_20170126T192544_20170126T193328_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more
CS_OFFL_SIR_GOP_2_20170126T210400_20170126T210616_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more
CS_OFFL_SIR_GOP_2_20170126T210621_20170126T211223_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more
CS_OFFL_SIR_GOP_2_20170126T215325_20170126T215425_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more
CS_OFFL_SIR_GOP_2_20170126T224324_20170126T224443_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more
CS_OFFL_SIR_GOP_2_20170126T224611_20170126T225028_B001 Ice Range Averaging Status The Ice Range Averaging records.	ng Status Flag has been set for one or more

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. 27

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170126T002433_20170126T003232_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T011608_20170126T012128_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T025457_20170126T025610_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T025618_20170126T030024_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T043000_20170126T043508_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T043514_20170126T043521_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T043521_20170126T043528_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T043528_20170126T043827_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T061425_20170126T061437_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T061445_20170126T061611_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T070215_20170126T070900_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T075358_20170126T075501_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T092857_20170126T093233_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T093255_20170126T093608_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T110639_20170126T111147_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T111154_20170126T111521_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T124638_20170126T125219_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T125304_20170126T125421_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T142603_20170126T143113_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T160805_20170126T161016_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170126T174726_20170126T174924_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T175048_20170126T175427_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T192544_20170126T193328_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T210400_20170126T210616_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T210621_20170126T211223_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T224324_20170126T224443_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170126T224611_20170126T225028_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

Number of products with errors:

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.

149

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	264	264	264	0	0
SIR_GOP_2	262	262	262	0	0

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