

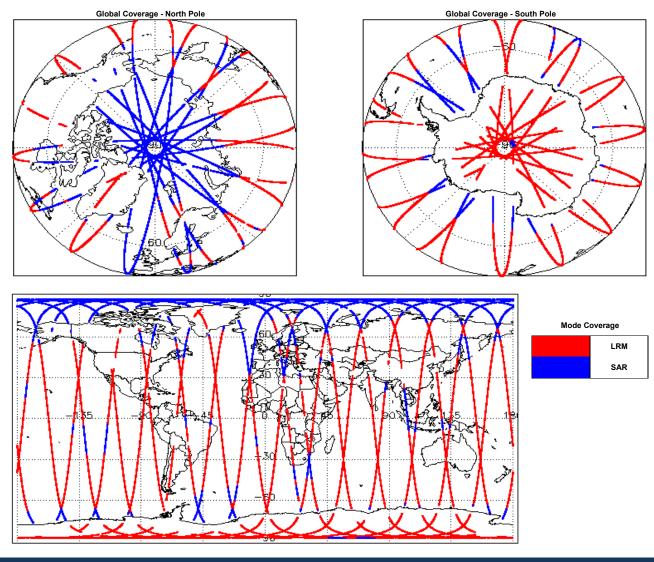
IDEAS+ Daily Report for GOP data:

<u>24/02/2017</u>

Report Production Date: 24-Mini - 2017 Server check: science-pds.cryosat.esa.int Nominal Processor Used: CryoSat Ocean Processor Server check: calval-pds.cryosat.esa.int Nominal Data Used: Geophysical Ocean Products (GOP) L1B and L2 Science Data Product Format Check Nominal Product Header Analysis Nominal Auxiliary Data File Usage Check Nominal Auxiliary Correction Error Check See Section 5.4	Report Production Date: 24-Mar-2017	24 Mar 2017	Check	Status	
Processor Used: CryoSat Ocean Processor Product Software Check Nominal Data Used: Geophysical Ocean Products (GOP) L1B and L2 Science Data Product Format Check Nominal Product Header Analysis Nominal Nominal Auxiliary Data File Usage Check Nominal		24-10101-2017	Server check: science-pds.cryosat.esa.int	Nominal	
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			Auxiliary Correction Error Check	See Section 5.4	
Measurement Confidence Data Check See Section 4.6, 5.6, 5.7 and 5.6			Measurement Confidence Data Check	See Section 4.6, 5.6, 5.7 and 5.8	
	lission / Instrument News				
ission / Instrument News	23-Feb-2017 None				
	24-Feb-2017 None				

25-Feb-2017	Nothing planned
24-Feb-2017	None

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-	e-determined baseline and also to check the va	alidity of Auxiliary Data Files is correct.
lumber of products with errors: 0		
I.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 60) for each measurem	nent record. The bit value of this flag indicates a	any problems when set.
lumber of products with errors: 0		
I.5 L1B Measurement Confidence Data Check		
	manurament record. The hit value of this flog	indicates any problems when set
CryoSat L1B data includes a measurement confidence flag (field 12) for each r lumber of products with errors: 0	measurement record. The bit value of this hag	indicates any problems when set.
I.6 L1B Waveform Group Data Check		
ryoSat L1B data includes a waveform data flag (field 65) for each measurem	-	ny problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is umber of products with errors: 10	to be expected.	
	Test Failed	Departmenter
roduct S OFFL SIR GOP 1B 20170224T113241 20170224T120622 B001	Loss of Echo	Description The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T121839_20170224T121907_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T164644_20170224T164845_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T164845_20170224T165807_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T172208_20170224T172603_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T185847_20170224T185948_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T202818_20170224T202918_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T222117_20170224T223719_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T234456_20170224T234610_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170224T234740_20170224T235526_B001	Loss of Echo	The tracking echo is missing for one or more records
5. G	OP Level 2 Data Quality Ch	eck
umber of products with errors: 0	ensure it consists of doth an XML neader file (.	HDR) and a product file (.DBL).
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Jumber 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 the merity of the merity		
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Jumber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH and Jumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check iach product is checked for missing Data Set Descriptors with respect to a pre- Vind Model File Usage: This file is currently not included in all L2 products. Jumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are check or all products, the auxiliary corrections within the Geophysical Group are check currently, there are two common auxillary correction errors raised in the pollowed by a table highlighting any additional issues which may arise for sea State Bias Error: The error value is currently set for products over land a utimetric Wind Speed Error: The error value is currently set for products over land a utimetric Wind Speed Error: The error value is currently set for products over land a utimetric Gorp 2_20170224T003105_20170224T003233_B001 cs_OFFL_SIR_GOP_2_20170224T040351_20170224T040512_B001 cs_OFFL_SIR_GOP_2_20170224T051500_20170224T052628_B001 cs_OFFL_SIR_GOP_2_20170224T070825_20170224T071106_B001 cs_OFFL_SIR_GOP_2_20170224T070825_20170224T090508_B001	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). P Level 2 products which are expected due to form this test. and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Mean Sea Surface (1), Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Nor	Ind/or errors raised by the ground-segment processing chain. Ind/or errors raised by the ground-segment processing chain. Indicity of Auxiliary Data Files is correct. Indicity of Auxiliary Data Files is correct. Description There is an error with the Total Geocentric Ocean Tide height (solution fees) and the Non-equilibrium Long Period Ocean Tide height (solution fees) and the Non-equilibrium Long Period Ocean Tide height (solution fees) and the Non-equilibrium Long Period Ocean Tide height for one c more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one c more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one c more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one c more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FGOT and solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1) and the Ocean Load Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1) and the Ocean Load Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1) and the Ocean Load Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1) fees) and the Non-equilibrium Long Period Ocean Tide height for one c more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Ti

CS_OFFL_SIR_GOP_220170224T190343_20170224T193633_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_220170224T202443_20170224T202540_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_220170224T202541_20170224T202801_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_220170224T212820_20170224T215825_B001	Lotal Geocentric Ocean Lide (EES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220170224T222117_20170224T223719_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_220170224T231342_20170224T231803_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_220170224T233418_20170224T233456_B001	Found from Long Period Ocean Lide	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_220170224T234037_20170224T234357_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_220170224T234740_20170224T235526_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

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. 0 Number of products with errors:

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. 33

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170224T012954_20170224T013108_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T013108_20170224T013115_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T013115_20170224T013521_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T030457_20170224T031006_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T031006_20170224T031012_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T031012_20170224T031019_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T031026_20170224T031323_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T044358_20170224T044903_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T044917_20170224T044923_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T044942_20170224T045108_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T053708_20170224T054354_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T062814_20170224T062821_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T062856_20170224T062959_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T080355_20170224T080731_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T080738_20170224T080747_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T080753_20170224T081107_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T094137_20170224T094644_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T094652_20170224T095019_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T112136_20170224T112717_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T112806_20170224T112919_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T130101_20170224T130611_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T144304_20170224T144514_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T162224_20170224T162422_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T162544_20170224T162924_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T171614_20170224T171743_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T180041_20170224T180825_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T193859_20170224T194113_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T194122_20170224T194719_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_2_20170224T202818_20170224T202918_B001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T211822_20170224T211940_B001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T212109_20170224T212528_B001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T230020_20170224T230559_B001	Lice Rande Averading Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T234740_20170224T235526_B001		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. 29

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170224T012954_20170224T013108_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T013115_20170224T013521_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T030457_20170224T031006_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T031006_20170224T031012_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T031012_20170224T031019_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T031026_20170224T031323_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T044358_20170224T044903_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T044942_20170224T045108_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T053708_20170224T054354_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T062856_20170224T062959_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T080355_20170224T080731_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T080753_20170224T081107_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T094137_20170224T094644_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T094652_20170224T095019_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T112136_20170224T112717_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T112806_20170224T112919_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T130101_20170224T130611_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T144304_20170224T144514_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T162224_20170224T162422_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T162544_20170224T162924_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T171614_20170224T171743_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T180041_20170224T180825_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T193859_20170224T194113_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T194122_20170224T194719_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170224T202818_20170224T202918_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T211822_20170224T211940_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T212109_20170224T212528_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T230020_20170224T230559_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170224T234740_20170224T235526_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

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

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 153

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	267	267	267	0	0
SIR_GOP_2	266	266	266	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