



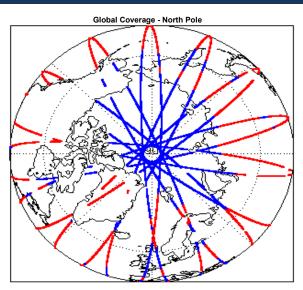
1. Overview

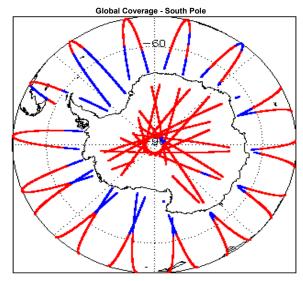
Report Production Date:	01-Jun-2016
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data

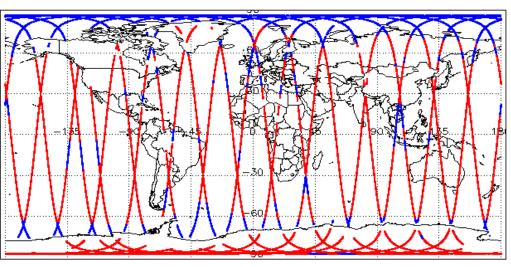
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

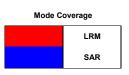
Mission / Instrument News		
02-May-2016	None	
03-May-2016	None	
04-May-2016	Nothing planned	

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:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20160503T024539_20160503T024834_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_20160503T114952_20160503T122435_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20160503T001201_20160503T001410_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T033306_20160503T035444_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T091032_20160503T091451_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T172239_20160503T172243_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T173924_20160503T181121_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T192145_20160503T193312_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T193312_20160503T193516_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T193516_20160503T195014_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160503T232139_20160503T232300_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_20160503T010207_20160503T010353_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_20160503T011014_20160503T013025_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_20160503T024425_20160503T024539_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_20160503T065140_20160503T072007_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_20160503T080351_20160503T080933_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_20160503T084953_20160503T085419_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_220160503T090845_20160503T091004_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_20160503T092953_20160503T093113_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_220160503T153914_20160503T154213_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_20160503T161037_20160503T163203_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_220160503T173924_20160503T181121_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_20160503T192145_20160503T193312_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_20160503T193516_20160503T195014_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_20160503T200637_20160503T201900_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_20160503T210621_20160503T211437_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:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160503T024539_20160503T024834_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220160503T114952_20160503T122435_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:

CS_OFFL_SIR_GOP_2_20160503T002714_20165050T001038_B001 CS_Range Averaging Status The loc Range Averaging Status Flag has been set for one or more lectors. CS_OFFL_SIR_GOP_2_20160503T004140_20160503T014344_B001 CS_ROFFL_SIR_GOP_2_20160503T004110_20160503T014344_B001 CS_ROFFL_SIR_GOP_2_20160503T004110_20160503T004344_B001 CS_OFFL_SIR_GOP_2_20160503T00410_20160503T004344_B001 CS_OFFL_SIR_GOP_2_20160503T004040_B001 CS_OFFL_SIR_GOP_2_20160503T004003T004040_B001 CS_OFFL_SIR_GOP_2_20160503T004003T004040_B001 CS_OFFL_SIR_GOP_2_20160503T004003T004040_B001 CS_OFFL_SIR_GOP_2_20160503T004003T004040_B001 CS_OFFL_SIR_GOP_2_20160503T004003T004003T004004000000000000000	Product	Test Failed	Description
to Range Averaging Status Find	CS_OFFL_SIR_GOP_220160503T000145_20160503T000707_B001	Ice Range Averaging Status	
toe Range Averaging Status CS_OFFL_SIR_GOP_2_20160503T104146_20160503T104345_8001 Loe Range Averaging Status The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or more records. The toe Range Averaging Status Flag has been set for one or	CS_OFFL_SIR_GOP_220160503T000714_20160503T001039_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160503T082438_20160503T08258_B001	CS_OFFL_SIR_GOP_220160503T064246_20160503T064441_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160503T114126_20160503T114548_B001	CS_OFFL_SIR_GOP_220160503T095911_20160503T100756_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160503T145945_20160503T163945_B001	CS_OFFL_SIR_GOP_220160503T114126_20160503T114548_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160503T163945_20160503T163952_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Rang	CS_OFFL_SIR_GOP_220160503T145945_20160503T150458_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160503T163952_20160503T164402_B001	CS_OFFL_SIR_GOP_220160503T163810_20160503T163945_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160503T172601_20160503T172611_B001 CS_OFFL_SIR_GOP_2_20160503T181319_20160503T181844_B001 CS_OFFL_SIR_GOP_2_20160503T181319_20160503T181844_B001 CS_OFFL_SIR_GOP_2_20160503T181844_20160503T181850_B001 CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181850_B001 CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181856_B001 CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181850_B001 CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181903_B001 CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001 CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181903_B001 CS_OFFL_SIR_GOP_2_20160503T181903_20160503T181903_B001 CS_OFFL_SIR_GOP_2_20160503T181903_20160503T182127_B001 CS_OFFL_SIR_GOP_2_20160503T181903_20160503T18001 CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T1905414_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160503T190540_B001 CS_OFFL_SIR_GOP_2_20160	CS_OFFL_SIR_GOP_220160503T163945_20160503T163952_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160503T181319_20160503T181844_B001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T181844_20160503T181850_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181856_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T181903_20160503T182127_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160503T163952_20160503T164402_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160503T181844_20160503T181850_B001 CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181856_B001 CS_OFFL_SIR_GOP_2_20160503T181850_20160503T181856_B001 Lee Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160503T172601_20160503T172611_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001 CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001 CS_OFFL_SIR_GOP_2_20160503T181903_20160503T182127_B001 Ice Range Averaging Status Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160503T181844_20160503T181850_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160503T181805_20160503T181903_B001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 Ice Range Averaging Status Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160503T181850_20160503T181856_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001	CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2201005031190414_201005031190540_B001	CS_OFFL_SIR_GOP_220160503T181903_20160503T182127_B001	Ice Range Averaging Status	
US OFFI SIR GOP 2 201605031195741 201605031195748 BUUT - IICE RANGE AVERAGING STATUS	CS_OFFL_SIR_GOP_220160503T190414_20160503T190540_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_GOP_220160503T195741_20160503T195748_B001	Ice Range Averaging Status	

CS_OFFL_SIR_GOP_2_20160503T195801_20160503T195812_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T213212_20160503T213654_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T213654_20160503T213659_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T213659_20160503T213711_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T213733_20160503T213845_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T231230_20160503T231608_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T231615_20160503T231625_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T231631_20160503T231956_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. 27

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20160503T000145_20160503T000707_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T000714_20160503T001039_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T014146_20160503T014944_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T032119_20160503T032633_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T050255_20160503T050534_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T064246_20160503T064441_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T064649_20160503T064943_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T073638_20160503T073958_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T082122_20160503T082359_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T082419_20160503T082718_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T095911_20160503T100756_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T113840_20160503T114015_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T114126_20160503T114548_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T145945_20160503T150458_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T163810_20160503T163945_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T172601_20160503T172611_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T181319_20160503T181844_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T181856_20160503T181903_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T181903_20160503T182127_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T190414_20160503T190540_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T195741_20160503T195748_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160503T195801_20160503T195812_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T213212_20160503T213654_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T213733_20160503T213845_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T231230_20160503T231608_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T231615_20160503T231625_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160503T231631_20160503T231956_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: