



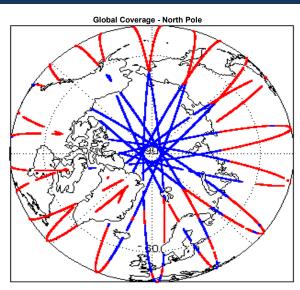
1. Overview

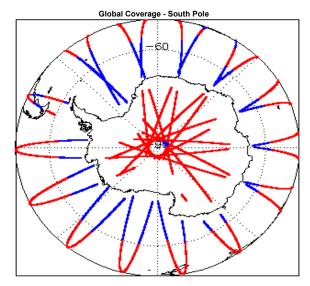
Report Production Date:	04-Nov-2016
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data

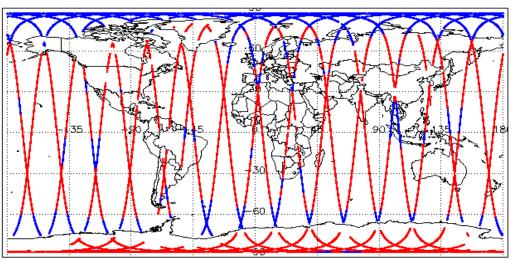
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

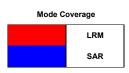
Mission / Instru	Mission / Instrument News		
02-Oct-2016	None		
03-Oct-2016	None		
04-Oct-2016	Nothing planned		

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20161003T184119_20161003T184246_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_20161003T043612_20161003T050409_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T083329_20161003T084136_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T102116_20161003T103434_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T103914_20161003T104136_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T120904_20161003T121833_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T132322_20161003T132544_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T155242_20161003T155504_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T170626_20161003T173209_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T183653_20161003T183900_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T201839_20161003T202024_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T224646_20161003T230332_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20161003T232239_20161003T232952_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_220161003T005043_20161003T005108_B001	Geoid height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_2_20161003T005726_20161003T005819_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_20161003T033053_20161003T033343_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_20161003T064639_20161003T064747_B001	Total Geocentric Ocean Tide (FES), Non- 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_20161003T065041_20161003T065218_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_20161003T083329_20161003T084136_B001	Total Geocentric Ocean Tide (FES), Non- 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

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CS_OFFL_SIR_GOP_220161003T104145_20161003T105605_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_20161003T120904_20161003T121833_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_220161003T121834_20161003T122035_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_20161003T133055_20161003T133754_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_20161003T135137_20161003T135903_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_20161003T145220_20161003T145551_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_20161003T151451_20161003T151737_B001	TEGUIIINTUM 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_2_20161003T151737_20161003T152035_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_220161003T201839_20161003T202024_B001		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_220161003T224646_20161003T230332_B001	Geoid Height, 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 2: FES), the Non-equilibrium Long Period Ocean Tide height and the Goeid height for one or more reocrds
CS_OFFL_SIR_GOP_220161003T235213_20161003T235426_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_220161003T184119_20161003T184246_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: 33

CS_OFFL_SIR_GOP_2_20161003T002154_20161003T01082_B001	Product	Test Failed	Description
CS_OFF_SIR_GOP_2_0161003T010927_20161003T01401_B001 tec Range Averaging Status Tie cle Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T024432_02161003T025258_B001 tec Range Averaging Status Tie cle Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T024432_02161003T035500_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T04256_20161003T042518_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T04256_20161003T042518_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T04459_20161003T075011_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T074459_20161003T075011_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T092256_20161003T092919_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T10022_20161003T101137_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T10402_20161003T10403_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T110410_20161003T110415_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFF_SIR_GOP_2_0161003T110410_20161003T110415_B001 tec Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. The loce Range Averaging Status Flag has been set for one or more records. The loce Range Averaging Status Flag has been set for one or more records. The loc	CS_OFFL_SIR_GOP_220161003T002154_20161003T002332_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T02432_20161003T024528_B001	CS_OFFL_SIR_GOP_220161003T010621_20161003T010922_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_201610037102432_201610037033500_B001 ce Range Averaging Status fecords. CS_OFFL_SIR_GOP_2_20161003704256_201610037042518_B001 ce Range Averaging Status fecords. CS_OFFL_SIR_GOP_2_201610037042543_201610037042518_B001 ce Range Averaging Status fecords. CS_OFFL_SIR_GOP_2_201610037042643_20161003705011_B001 ce Range Averaging Status fecords. 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 St	CS_OFFL_SIR_GOP_220161003T010927_20161003T011401_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20161003T10357_B001	CS_OFFL_SIR_GOP_220161003T092505_20161003T092919_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T110357_20161003T110403_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. 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_220161003T101022_20161003T101137_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T110410_20161003T110415_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T123801_20161003T124256_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124300_20161003T124308_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124308_20161003T124314_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124314_20161003T124325_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124314_20161003T124325_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124332_20161003T124449_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T141742_20161003T142224_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T141742_20161003T142249_B001 Lee Range Averaging Status The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. The lee Range Averaging Status Flag has been set for one or more records. The lee Range A	CS_OFFL_SIR_GOP_220161003T105836_20161003T110357_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T110416_20161003T110624_B001	CS_OFFL_SIR_GOP_220161003T110357_20161003T110403_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T124308_20161003T124308_B001 Ice Range Averaging Status 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_20161003T124308_20161003T124308_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124308_20161003T124314_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124314_20161003T124325_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124332_20161003T124449_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. CS_OFFL_SIR_GOP_2_20161003T14742_20161003T142244_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.	CS_OFFL_SIR_GOP_220161003T110410_20161003T110415_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T124308_20161003T124308_B001 Ice Range Averaging Status 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_20161003T124308_20161003T124314_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_20161003T124314_20161003T124325_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124332_20161003T124449_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T141742_20161003T142224_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T141742_20161003T142249_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T142245_20161003T142409_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_220161003T110416_20161003T110624_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T124308_20161003T124314_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_20161003T124314_20161003T124325_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T124332_20161003T124449_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T14742_20161003T142449_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_220161003T123801_20161003T124256_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T124314_20161003T124325_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_20161003T124332_20161003T124449_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_20161003T14742_20161003T142224_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T142245_20161003T142409_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20161003T142245_20161003T142409_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_220161003T124300_20161003T124308_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T124332_20161003T124449_B001	CS_OFFL_SIR_GOP_220161003T124308_20161003T124314_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T142449_B001	CS_OFFL_SIR_GOP_220161003T124314_20161003T124325_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20161003T142245_20161003T142249_B001	CS_OFFL_SIR_GOP_220161003T124332_20161003T124449_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2201610031142245_201610031142409_B001	CS_OFFL_SIR_GOP_220161003T141742_20161003T142224_B001	Ice Range Averaging Status	
CS OFFI SIR GOP 2 2016/10/31/155/24 2016/10/31/160123 B001	CS_OFFL_SIR_GOP_220161003T142245_20161003T142409_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_GOP_220161003T155724_20161003T160123_B001	Ice Range Averaging Status	

CS_OFFL_SIR_GOP_2_20161003T160144_20161003T160509_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T173555_20161003T174037_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T174042_20161003T174413_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T191541_20161003T192104_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T201314_20161003T201712_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T205510_20161003T210003_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T215621_20161003T215946_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T223715_20161003T223908_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T224234_20161003T224314_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T233113_20161003T233424_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220161003T010621_20161003T010922_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T010927_20161003T011401_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T024432_20161003T025258_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T033402_20161003T033500_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T042356_20161003T042518_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T042643_20161003T043100_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T074459_20161003T075011_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T092254_20161003T092458_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T092505_20161003T092919_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T101022_20161003T101137_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T105836_20161003T110357_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T110410_20161003T110415_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T110416_20161003T110624_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T124308_20161003T124314_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T124332_20161003T124449_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T141742_20161003T142224_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T142245_20161003T142409_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220161003T155724_20161003T160123_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T160144_20161003T160509_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T173555_20161003T174037_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T174042_20161003T174413_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T191541_20161003T192104_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T201314_20161003T201712_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T205510_20161003T210003_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T215621_20161003T215946_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T223715_20161003T223908_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20161003T224234_20161003T224314_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: