



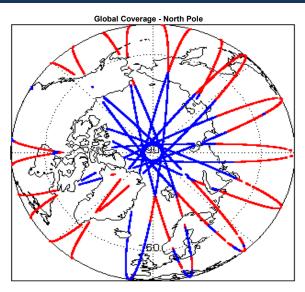
1. Overview

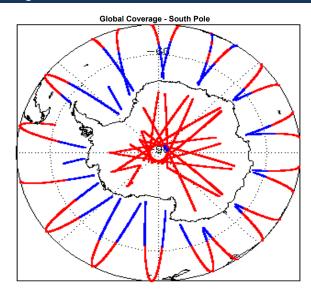
Report Production Date:	10-Oct-2016
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data

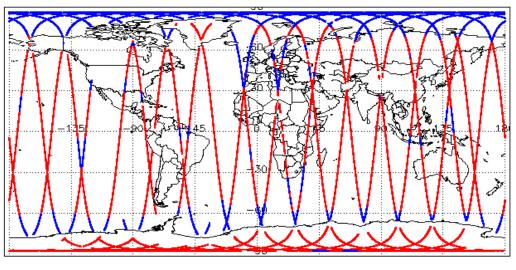
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

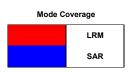
Mission / Instrument News		
02-Sep-2016	None	
03-Sep-2016	None	
04-Sep-2016	Nothing planned	

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_20160903T025704_20160903T025856_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_20160903T155311_20160903T155918_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_20160903T004959_20160903T005724_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T054922_20160903T055013_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T071905_20160903T072105_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T072537_20160903T072942_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T073009_20160903T073800_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T123549_20160903T125032_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T134540_20160903T140134_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T143532_20160903T143711_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T151051_20160903T152215_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160903T191002_20160903T191034_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).

0

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: 16

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20160903T001427_20160903T003102_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_220160903T011947_20160903T012201_B001	` '	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES)
CS_OFFL_SIR_GOP_2_20160903T020731_20160903T020909_B001	For I of the Control of the Index (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_2_20160903T020909_20160903T022529_B001	Fouilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20160903T022951_20160903T023146_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_220160903T033320_20160903T035631_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

		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_20160903T042137_20160903T042836_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_220160903T043055_20160903T045654_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_220160903T085856_20160903T085946_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
	I Edilliptii im 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_20160903T140753_20160903T141448_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_20160903T151051_20160903T152215_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_20160903T160704_20160903T162859_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_20160903T205923_20160903T210244_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_2_20160903T223115_20160903T223841_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

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_220160903T025704_20160903T025856_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220160903T155311_20160903T155918_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.

 $\textbf{Ice Range Averaging Status Flag:} \ \textbf{This flag is currently set for products over land, but this is to be expected.}$

Number of products with errors:

3	4

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20160903T000448_20160903T000641_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T005846_20160903T010148_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T014340_20160903T014553_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T014635_20160903T015053_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T023805_20160903T023820_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T032131_20160903T032956_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T050034_20160903T050229_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T050320_20160903T050809_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T064001_20160903T064028_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T064239_20160903T064836_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T082147_20160903T082707_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T100038_20160903T100149_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T100155_20160903T100602_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T113545_20160903T114047_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T114053_20160903T114100_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T114107_20160903T114415_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T122420_20160903T122740_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T131952_20160903T131958_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T131958_20160903T132004_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T132004_20160903T132016_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T132022_20160903T132151_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T145856_20160903T145903_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T145903_20160903T145914_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220160903T145920_20160903T145930_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T145936_20160903T150038_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T163434_20160903T163812_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T163834_20160903T164138_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T181216_20160903T181726_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T181733_20160903T182100_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T195215_20160903T195759_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T195825_20160903T200001_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T213142_20160903T213652_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160903T231339_20160903T231554_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:

CS_OFFL_SIR_GOP_2_20160903T00546_20160903T01448_B001 Ice Backscatter Averaging Status Ice Backscatter Aver	Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20160903T014340_20160903T014553_B001 CS_OFFL_SIR_GOP_2_20160903T014635_20160903T015053_B001 CS_OFFL_SIR_GOP_2_20160903T014635_20160903T015053_B001 CS_OFFL_SIR_GOP_2_20160903T032131_20160903T032956_B001 CS_OFFL_SIR_GOP_2_20160903T050034_20160903T050229_B001 CS_OFFL_SIR_GOP_2_20160903T050034_20160903T050229_B001 CS_OFFL_SIR_GOP_2_20160903T050320_20160903T050039_B001 CS_OFFL_SIR_GOP_2_20160903T050320_20160903T050039_B001 CS_OFFL_SIR_GOP_2_20160903T064001_20160903T064028_B001 CS_OFFL_SIR_GOP_2_20160903T064001_20160903T064028_B001 CS_OFFL_SIR_GOP_2_20160903T0640239_20160903T064028_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064036_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064038_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064036_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064036_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064036_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064036_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064036_B001 CS_OFFL_SIR_GOP_2_20160903T1064038_B001 CS_OFFL_SIR_GOP_2_20160903T10655_20160903T100149_B001 CS_OFFL_SIR_GOP_2_20160903T10038_20160903T10002_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113437_20160903T11345_B001 CS_OFFL_SIR_GOP_2_20160903T113437_20160903T131945_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T13004_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T13004_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T13004_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T13004_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T13004_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T13004_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T13004_B001	CS_OFFL_SIR_GOP_220160903T000448_20160903T000641_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
cs_OFFL_SIR_GOP_2_20160903T014635_20160903T015053_B001	CS_OFFL_SIR_GOP_220160903T005846_20160903T010148_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T032131_20160903T032956_B001 Lice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Statu	CS_OFFL_SIR_GOP_220160903T014340_20160903T014553_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T050034_20160903T050229_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T064001_20160903T064028_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T082147_20160903T082707_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T100038_20160903T100149_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T10155_20160903T100602_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T114107_20160903T114047_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T131437_20160903T132004_B001 Ice Backscatter Averaging Status I	CS_OFFL_SIR_GOP_220160903T014635_20160903T015053_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T050320_20160903T050809_B001 CS_OFFL_SIR_GOP_2_20160903T064001_20160903T064028_B001 CS_OFFL_SIR_GOP_2_20160903T064001_20160903T064028_B001 CS_OFFL_SIR_GOP_2_20160903T064039_20160903T064836_B001 CS_OFFL_SIR_GOP_2_20160903T064239_20160903T064836_B001 CS_OFFL_SIR_GOP_2_20160903T064239_20160903T064836_B001 CS_OFFL_SIR_GOP_2_20160903T082147_20160903T082707_B001 CS_OFFL_SIR_GOP_2_20160903T0038_20160903T00149_B001 CS_OFFL_SIR_GOP_2_20160903T100038_20160903T100149_B001 CS_OFFL_SIR_GOP_2_20160903T100038_20160903T100149_B001 CS_OFFL_SIR_GOP_2_20160903T100155_20160903T10002_B001 CS_OFFL_SIR_GOP_2_20160903T100155_20160903T100002_B001 CS_OFFL_SIR_GOP_2_20160903T100155_20160903T100002_B001 CS_OFFL_SIR_GOP_2_20160903T100155_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T114107_20160903T114407_B001 CS_OFFL_SIR_GOP_2_20160903T114107_20160903T114415_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001 CS_OFFL_SIR_GOP_2_20160903T131958_20160903T130008_B001 CS_OFFL_SIR_GOP_2_20160903T131958_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T150338_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163343_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163343_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163343_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163343_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163343_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163343_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163343_20160903T163812_B001	CS_OFFL_SIR_GOP_220160903T032131_20160903T032956_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T064021_20160903T064028_B001 Ice Backscatter Averaging Status Ice Backscatter Av	CS_OFFL_SIR_GOP_220160903T050034_20160903T050229_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T064239_20160903T064836_B001 Loe Backscatter Averaging Status The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status Flag has been set for one or mor records. The loe Backscatter Averaging Status	CS_OFFL_SIR_GOP_220160903T050320_20160903T050809_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T004239_20160903T00439_B001 CS_OFFL_SIR_GOP_2_20160903T100038_20160903T100149_B001 CS_OFFL_SIR_GOP_2_20160903T100038_20160903T100149_B001 CS_OFFL_SIR_GOP_2_20160903T100038_20160903T100002_B001 CS_OFFL_SIR_GOP_2_20160903T100155_20160903T100602_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 CS_OFFL_SIR_GOP_2_20160903T11407_20160903T114415_B001 CS_OFFL_SIR_GOP_2_20160903T114107_20160903T114415_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T132004_B001 CS_OFFL_SIR_GOP_2_20160903T13145936_20160903T132004_B001 CS_OFFL_SIR_GOP_2_20160903T145936_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T145936_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163434_20160903T163812_B001 CS_OFFL_SIR_GOP_2_20160903T163	CS_OFFL_SIR_GOP_220160903T064001_20160903T064028_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T10038_20160903T100149_B001 Ice Backscatter Averaging Status	CS_OFFL_SIR_GOP_220160903T064239_20160903T064836_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T100135_20160903T100602_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mor records. CS_OFFL_SIR_GOP_2_20160903T113545_20160903T114047_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records.	CS_OFFL_SIR_GOP_220160903T082147_20160903T082707_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T1100155_20160903T114047_B001	CS_OFFL_SIR_GOP_220160903T100038_20160903T100149_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T114107_20160903T114415_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001 CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001 CS_OFFL_SIR_GOP_2_20160903T131958_20160903T132004_B001 CS_OFFL_SIR_GOP_2_20160903T131958_20160903T132004_B001 CS_OFFL_SIR_GOP_2_20160903T145936_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T145936_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163434_20160903T150038_B001 CS_OFFL_SIR_GOP_2_20160903T163434_20160903T163812_B001 CS_OFFL_SIR_GOP_2_20160903T163434_20160903T163812_B001 CS_OFFL_SIR_GOP_2_20160903T163434_20160903T163812_B001 CS_OFFL_SIR_GOP_2_20160903T163434_20160903T163812_B001 CS_OFFL_SIR_GOP_2_20160903T163434_20160903T163812_B001	CS_OFFL_SIR_GOP_220160903T100155_20160903T100602_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T131437_20160903T131945_B001	CS_OFFL_SIR_GOP_220160903T113545_20160903T114047_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T131938_20160903T13004_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records. The Ice Backscatter Averaging Status Flag has been set for one or mor records.	CS_OFFL_SIR_GOP_220160903T114107_20160903T114415_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T137958_20160903T150038_B001	CS_OFFL_SIR_GOP_220160903T131437_20160903T131945_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_201609031145936_201609031150038_B001	CS_OFFL_SIR_GOP_220160903T131958_20160903T132004_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
US OFFE SIR GOP 2 201609031163434 201609031163812 BOOT	CS_OFFL_SIR_GOP_220160903T145936_20160903T150038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
records.	CS_OFFL_SIR_GOP_220160903T163434_20160903T163812_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T163834_20160903T164138_B001	CS_OFFL_SIR_GOP_220160903T163834_20160903T164138_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T181216_20160903T181726_B001	CS_OFFL_SIR_GOP_220160903T181216_20160903T181726_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T181733_20160903T182100_B001	CS_OFFL_SIR_GOP_220160903T181733_20160903T182100_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T195215_20160903T195759_B001	CS_OFFL_SIR_GOP_220160903T195215_20160903T195759_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T195825_20160903T200001_B001	CS_OFFL_SIR_GOP_220160903T195825_20160903T200001_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T213142_20160903T213652_B001	CS_OFFL_SIR_GOP_220160903T213142_20160903T213652_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160903T231339_20160903T231554_B001	CS_OFFL_SIR_GOP_220160903T231339_20160903T231554_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: