



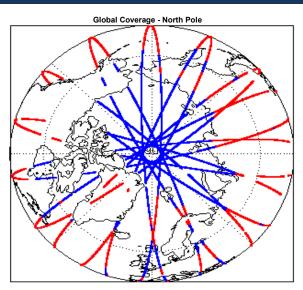
# 1. Overview

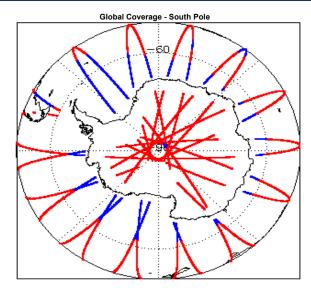
Report Production Date:	05-Jul-2017			
Processor Used:	CryoSat Ocean Processor			
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data			

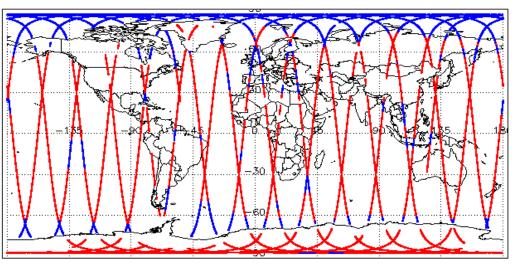
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

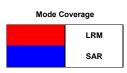
Mission / Instrument News		
03-Jun-2017	SIRAL unavailability from 2-Jun-2017 01:10:00 to 3-Jun-2017 09:30:31 due to an unexpected Platform anomaly.	
04-Jun-2017	None	
05-Jun-2017	Nothing planned	

# 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_20170604T032359_20170604T032756_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_20170604T052901_20170604T054922_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_20170604T181748_20170604T182105_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_20170604T000701_20170604T001004_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T013340_20170604T013804_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T051028_20170604T051811_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T061241_20170604T064600_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T064954_20170604T065931_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T100950_20170604T101542_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T111047_20170604T113913_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T182712_20170604T183500_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T202941_20170604T205108_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T221421_20170604T223026_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170604T235419_20170605T000859_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.

lumber 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_20170604T000701_20170604T001004_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_20170604T001639_20170604T002330_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_20170604T003348_20170604T004412_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_20170604T015514_20170604T020134_B001	Lotal Geocentric Ocean Lide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_2_20170604T021605_20170604T021741_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_20170604T052111_20170604T052259_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_20170604T052901_20170604T054922_B001	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170604T070329_20170604T070448_B001	Familibrium 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_20170604T111047_20170604T113913_B001	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170604T114755_20170604T115425_B001	Familibrium 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_20170604T132751_20170604T132911_B001	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170604T181610_20170604T181719_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_20170604T195818_20170604T200120_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_2_20170604T210639_20170604T212720_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_2_20170604T214642_20170604T215427_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_20170604T215532_20170604T215822_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_2_20170604T221421_20170604T223026_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:

3

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20170604T032359_20170604T032756_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20170604T052901_20170604T054922_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_2_20170604T181748_20170604T182105_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.

Toet Failed

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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170604T010743_20170604T010750_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T010750_20170604T010801_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T010807_20170604T010818_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T010821_20170604T010922_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T024308_20170604T024700_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T024706_20170604T024715_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T024721_20170604T024956_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T042051_20170604T042613_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T042620_20170604T042946_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T060052_20170604T060851_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T074025_20170604T074539_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T092202_20170604T092440_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T110152_20170604T110347_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T110553_20170604T110853_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T115543_20170604T115837_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T124027_20170604T124306_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T124325_20170604T124753_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T141817_20170604T142702_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170604T155745_20170604T155920_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170604T160032_20170604T160455_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220170604T173946_20170604T174534_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T191851_20170604T192405_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170604T205715_20170604T205851_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170604T205858_20170604T210309_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170604T214505_20170604T214517_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T223224_20170604T223750_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170604T223756_20170604T223802_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T223802_20170604T223809_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170604T223809_20170604T224032_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170604T232324_20170604T232446_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:

25

CS_OFFL_SIR_GOP_2_20170604T010743_20170604T010922_8010  CS_OFFL_SIR_GOP_2_20170604T010821_20170604T004270_8010  CS_OFFL_SIR_GOP_2_20170604T024706_20170604T024705_8010  CS_OFFL_SIR_GOP_2_20170604T024706_20170604T024705_8010  CS_OFFL_SIR_GOP_2_20170604T024706_20170604T024705_8010  CS_OFFL_SIR_GOP_2_20170604T024721_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T024721_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T024722_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T02405_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T02405_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T024965_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T029465_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T029465_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T029465_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T029460_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T029460_8001  CS_OFFL_SIR_GOP_2_20170604T0205_20170604T029460_8001  CS_OFFL_SIR_GOP_2_20170604T10152_20170604T103947_8001  CS_OFFL_SIR_GOP_2_20170604T10152_20170604T110347_8001  CS_OFFL_SIR_GOP_2_20170604T10155_20170604T110347_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T11053_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T11053_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T11053_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T11053_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T11053_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T11053_201001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110530_8001  CS_OFFL_SIR_GOP_2_20170604T124052_20170604T124058_8001  CS_OFFL_SIR_GOP	Product	Test Failed	Description	
CS_OFFL_SIR_GOP_2_20170604101622_0700601010322_bb01  Ince Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041024706_2017060407024715_B001  Ince Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041024051_2017060407024956_B001  Ince Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041042602_0210706041024956_B001  Ince Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041042602_0210706041042946_B001  Ince Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041074025_201706041074539_B001  Ince Backscatter Averaging Status  Ince Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041074025_201706041074539_B001  Ince Backscatter Averaging Status  Ince Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_2017060411052202_20170604110447_B001  Ince Backscatter Averaging Status  Ince Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604111053_20170604110437_B001  Ince Backscatter Averaging Status  Ince Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041110407_201706041104306_B001  Ince Backscatter Averaging Status  Ince Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041110407_20170604110406_B001  Ince Backscatter Averaging Status  Ince Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201706041110407_20170604110406_B001  Ince Backscatter Averaging Status  Ince Ice Backscatter Averaging Status Flag has been set for	CS_OFFL_SIR_GOP_220170604T010743_20170604T010750_B001	Ice Backscatter Averaging Status		
Los OFFL SIRL GOP 2 20170004T024706 20170004T024716 B001	CS_OFFL_SIR_GOP_2_20170604T010821_20170604T010922_B001	Ice Backscatter Averaging Status		
CS_OFF_SIR_GOP_2_20170004T024721_20170004T024956_B001  CS_OFF_SIR_GOP_2_20170004T0240251_20170004T024956_B001  CS_OFF_SIR_GOP_2_20170004T02402051_20170004T024946_B001  CS_OFF_SIR_GOP_2_20170004T0240200_20170004T042946_B001  CS_OFF_SIR_GOP_2_20170004T042600_20170004T042946_B001  CS_OFF_SIR_GOP_2_20170004T04000052_20170004T042946_B001  CS_OFF_SIR_GOP_2_20170004T04000052_20170004T040946_B001  CS_OFF_SIR_GOP_2_20170004T04000052_20170004T04000051_B001  CS_OFF_SIR_GOP_2_20170004T04000052_20170004T04000001  CS_OFF_SIR_GOP_2_20170004T04000052_20170004T04000001  CS_OFF_SIR_GOP_2_20170004T04000000000000000000000000000000	CS_OFFL_SIR_GOP_220170604T024308_20170604T024700_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T042051_20170604T042051_B001  Loe Backscatter Averaging Status  Tecords.  CS_OFFL_SIR_GOP_2_20170604T042052_20170604T042051_B001  Loe Backscatter Averaging Status  Tecords.  CS_OFFL_SIR_GOP_2_20170604T042052_20170604T060851_B001  Loe Backscatter Averaging Status  Tecords.  CS_OFFL_SIR_GOP_2_20170604T042052_20170604T060851_B001  Loe Backscatter Averaging Status  Tecords.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averag	CS_OFFL_SIR_GOP_220170604T024706_20170604T024715_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T042620_20170604T042646_B001  LOB Backscatter Averaging Status  LOB Backscatter Av	CS_OFFL_SIR_GOP_220170604T024721_20170604T024956_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T092052_20170604T094053_B001  CS_OFFL_SIR_GOP_2_20170604T092052_20170604T094053_B001  CS_OFFL_SIR_GOP_2_20170604T092022_20170604T094053_B001  CS_OFFL_SIR_GOP_2_20170604T092022_20170604T094053_B001  CS_OFFL_SIR_GOP_2_20170604T19152_20170604T110147_B001  CS_OFFL_SIR_GOP_2_20170604T110152_20170604T110147_B001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110853_B001  CS_OFFL_SIR_GOP_2_20170604T11053_20170604T110853_B001  CS_OFFL_SIR_GOP_2_20170604T115543_20170604T115837_B001  CS_OFFL_SIR_GOP_2_20170604T124027_20170604T124306_B001  CS_OFFL_SIR_GOP_2_20170604T124052_B001  CS_OFFL_SIR_GOP_2_20170604T118543_20170604T124702_B001  CS_OFFL_SIR_GOP_2_20170604T118543_20170604T118520_B001  CS_OFFL_SIR_GOP_2_20170604T1181837_B001  CS_OFFL_SIR_GOP_2_20170604T1181831_B001  CS_OFFL_SIR_GOP_2_20170604T1181831_B001  CS_OFFL_SIR_GOP_2_20170604T1181831_D0170604T118502_B001  CS_OFFL_SIR_GOP_2_20170604T118181_D0170604T118502_B001  CS_OFFL_SIR_GOP_2_20170604T191851_D0170604T19405_B001  CS_OFFL_SIR_GOP_2_20170604T191851_D0170604T19405_B001  CS_OFFL_SIR_GOP_2_20170604T191851_D0170604T19309_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205851_B001  CS_OFFL_SIR_GOP_2_20170604T205715_D0170604T205715_D0170604T205715_D0170604T205	CS_OFFL_SIR_GOP_220170604T042051_20170604T042613_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T092405_20170604T092440_B001  Ice Backscatter Averaging Status  Ice Backscatter Av	CS_OFFL_SIR_GOP_220170604T042620_20170604T042946_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T104222_20170604T19240_B001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T115543_20170604T115837_B001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Stat	CS_OFFL_SIR_GOP_2_20170604T060052_20170604T060851_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T195202_20170604T193210_20170604T193240_20170604T19034T_B001	CS_OFFL_SIR_GOP_2_20170604T074025_20170604T074539_B001	Ice Backscatter Averaging Status	* * *	
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CS_OFFL_SIR_GOP_2_20170604T11553_20170604T11553_B001  Ice Backscatter Averaging Status  CS_OFFL_SIR_GOP_2_20170604T124027_20170604T124306_B001  Ice Backscatter Averaging Status  In the Ce Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T155745_20170604T155920_B001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T191851_20170604T192405_B001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more rec	CS_OFFL_SIR_GOP_2_20170604T110152_20170604T110347_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T124302_20170604T124306_B001  CS_OFFL_SIR_GOP_2_20170604T124325_20170604T124753_B001  CS_OFFL_SIR_GOP_2_20170604T124325_20170604T124753_B001  CS_OFFL_SIR_GOP_2_20170604T141817_20170604T142702_B001  CS_OFFL_SIR_GOP_2_20170604T141817_20170604T142702_B001  CS_OFFL_SIR_GOP_2_20170604T155745_20170604T1455920_B001  CS_OFFL_SIR_GOP_2_20170604T173946_20170604T155920_B001  CS_OFFL_SIR_GOP_2_20170604T191851_20170604T192405_B001  CS_OFFL_SIR_GOP_2_20170604T191851_20170604T192405_B001  CS_OFFL_SIR_GOP_2_20170604T29205715_20170604T192405_B001  CS_OFFL_SIR_GOP_2_20170604T205715_20170604T1004T10004T1004	CS_OFFL_SIR_GOP_2_20170604T110553_20170604T110853_B001	Ice Backscatter Averaging Status		
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CS_OFFL_SIR_GOP_2_20170604T155745_20170604T155920_B001	CS_OFFL_SIR_GOP_220170604T124325_20170604T124753_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T173946_20170604T192405_B001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T205715_20170604T205851_B001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T205858_20170604T210309_B001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20170604T141817_20170604T142702_B001	Ice Backscatter Averaging Status		
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CS_OFFL_SIR_GOP_2_20170604T205858_20170604T210309_B001  Ice Backscatter Averaging Status  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T214505_20170604T214517_B001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T223224_20170604T223750_B001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T223809_20170604T224032_B001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20170604T191851_20170604T192405_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T214505_20170604T214517_B001	CS_OFFL_SIR_GOP_2_20170604T205715_20170604T205851_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_20170604T223224_20170604T223750_B001  Ice Backscatter Averaging Status  records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T223809_20170604T224032_B001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20170604T205858_20170604T210309_B001	Ice Backscatter Averaging Status	* * *	
CS_OFFL_SIR_GOP_2_20170604T223809_20170604T224032_B001  Ice Backscatter Averaging Status  records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20170604T223809_20170604T224032_B001  Ice Backscatter Averaging Status  The Ice Backscatter Averaging Status Flag has been set for one or more records.  The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_2_20170604T214505_20170604T214517_B001	Ice Backscatter Averaging Status		
CS_OFFL_SIR_GOP_2_2017/06041223809_2017/06041224032_B001	CS_OFFL_SIR_GOP_220170604T223224_20170604T223750_B001	Ice Backscatter Averaging Status		
US OFFI SIR GOP 2 2017/06041232324 2017/06041232446 BUUT - LICE BACKSCATTET AVERAGING STATUS	CS_OFFL_SIR_GOP_2_20170604T223809_20170604T224032_B001	Ice Backscatter Averaging Status	* * * * * * * * * * * * * * * * * * * *	
	CS_OFFL_SIR_GOP_220170604T232324_20170604T232446_B001	Ice Backscatter Averaging Status	* * *	

# 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:

149

# 6. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOP_1B	243	243	243	0	0
SIR_GOP_2	239	239	239	0	0

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