



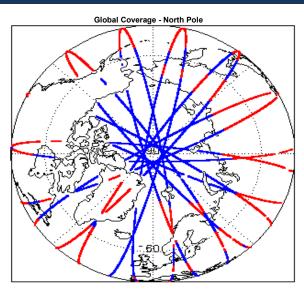
# 1. Overview

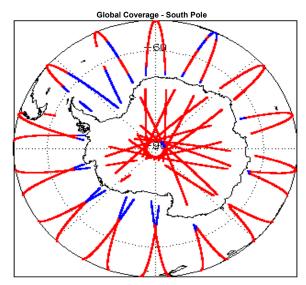
Report Production Date:	07-Apr-2016	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data	

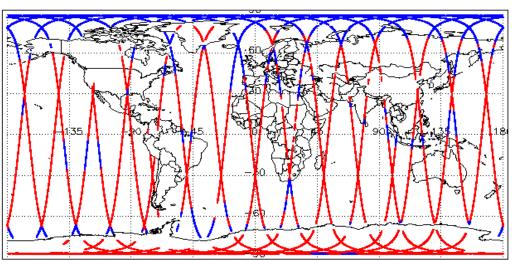
Check	Status
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

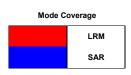
Mission / Instrument News		
08-Mar-2016	None	
09-Mar-2016	None	
10-Mar-2016	Nothing planned	

# 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\_20160309T212956\_20160309T214740\_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_20160309T011726_20160309T011911_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T025736_20160309T030025_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T050655_20160309T050945_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T061553_20160309T061619_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T074143_20160309T074409_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T074516_20160309T080704_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T083339_20160309T083657_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T113905_20160309T115401_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T125624_20160309T125846_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T142427_20160309T142534_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T173017_20160309T173356_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T191305_20160309T192151_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160309T211306_20160309T211804_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:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20160309T060256_20160309T061442_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_20160309T062043_20160309T062237_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_20160309T095441_20160309T095627_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_20160309T191305_20160309T192151_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_220160309T212955_20160309T214740_B001	Lintal Geocentric Ocean Lide (EES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

CS_OFFL_SIR_GOP_2_20160309T223408_20160309T223730_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_2_20160309T225954_20160309T231015_B001		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_2_20160309T212955_20160309T214740_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.

lumber of products with errors:

CS_OFFL_SIR_GOP_2_20160309T002432_20180309T002444_B001	Product	Test Failed	Description
to Range Averaging Status Fing Range Averaging Status Fing has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T002096_20160309T002091_8001  to Range Averaging Status Fing Range Averaging Status Fing has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T020002_20160309T002031_8001  to Range Averaging Status Fing	CS_OFFL_SIR_GOP_220160309T001946_20160309T002427_B001	Ice Range Averaging Status	
toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091024052_01603091020041   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_2016030910200042_01603091020044   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091020044_201603091020034_8   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091020044_201603091020035_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091020044_201603091020035_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_2016030910203402_201603091030025_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091034302_201603091034255_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091034302_201603091034331_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_20160309103334_20160309103236_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_20160309103334_20160309103236_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_20160309103334_201603091034137_9001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091033334_201603091034137_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091103332_201603091103338_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_2016030911133_20160309110332_8001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_2016030911133_20160309113312_9001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091133518_20160309113312_9001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_201603091133518_20160309113312_9001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_20160309113361_20160309113312_9001   100 toe Range Averaging Status  6. GPFL_SIR_GOP_2_20160309113361_20160309113312_9001   100 toe Range Averaging Status  6. GRange Averaging Status  6. GRange Averaging Status  6. GRange Averaging Status  6. GRa	CS_OFFL_SIR_GOP_220160309T002432_20160309T002444_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T02004_20160309T02034_B001  CS_OFFL_SIR_GOP_2_20160309T020349_20160309T020345_B001  CS_OFFL_SIR_GOP_2_20160309T020349_20160309T020356_B001  CS_OFFL_SIR_GOP_2_20160309T020349_20160309T020356_B001  CS_OFFL_SIR_GOP_2_20160309T020349_20160309T020356_B001  CS_OFFL_SIR_GOP_2_20160309T020349_20160309T020325_B001  CS_OFFL_SIR_GOP_2_20160309T033000_20160309T030205_B001  CS_OFFL_SIR_GOP_2_20160309T033000_20160309T030205_B001  CS_OFFL_SIR_GOP_2_20160309T033000_20160309T03425_B001  CS_OFFL_SIR_GOP_2_20160309T034002_20160309T03425_B001  CS_OFFL_SIR_GOP_2_20160309T04302_20160309T03425_B001  CS_OFFL_SIR_GOP_2_20160309T04302_20160309T020328_B001  CS_OFFL_SIR_GOP_2_20160309T04302_20160309T020328_B001  CS_OFFL_SIR_GOP_2_20160309T043032_20160309T020328_B001  CS_OFFL_SIR_GOP_2_20160309T043032_20160309T00223_B001  CS_OFFL_SIR_GOP_2_20160309T043033_20160309T00223_B001  CS_OFFL_SIR_GOP_2_20160309T043033_20160309T00223_B001  CS_OFFL_SIR_GOP_2_20160309T043033_20160309T00223_B001  CS_OFFL_SIR_GOP_2_20160309T043033_20160309T002034_B001  CS_OFFL_SIR_GOP_2_20160309T10333_20160309T002034_B001  CS_OFFL_SIR_GOP_2_20160309T10333_20160309T002034_B001  CS_OFFL_SIR_GOP_2_20160309T10333_20160309T002034_B001  CS_OFFL_SIR_GOP_2_20160309T10333_20160309T102034_B001  CS_OFFL_SIR_GOP_2_20160309T10333_20160309T102034_B001  CS_OFFL_SIR_GOP_2_20160309T10333_20160309T102034_B001  CS_OFFL_SIR_GOP_2_20160309T11333_20160309T102544_B001  CS_OFFL_SIR_GOP_2_20160309T13358_20160309T133720_B001  CS_OFFL_SIR_GOP_2_20160309T13582_20160309T133720_B001  CS_OFFL_SIR_GOP_2_20160309T13582_20160309T133720_B001  CS_OFFL_SIR_GOP_2_20160309T13582_20160309T133720_B001  CS_OFFL_SIR_GOP_2_20160309T13582_20160309T133720_B001  CS_OFFL_SIR_GOP_2_20160309T13582_20160309T133720_B001  CS_OFFL_SIR_GOP_2_20160309T13582_20160309T13528_B001  CS_OFFL_SIR_GOP_2_20160309T13584_20160309T13528_B001  CS_OFFL_SIR_GOP_2_20160309T13584_20160309T13528_B001  CS_OFFL_SIR_GOP_2_20160309T13584_20160309T13528_B001  CS_OFFL_SIR_GOP_2_20160309T13584_20160309T13528_B001  CS_OFFL_S	CS_OFFL_SIR_GOP_220160309T002450_20160309T002459_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T020342_D0160309T020358_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T020404_20160309T020730_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The	CS_OFFL_SIR_GOP_220160309T002506_20160309T002619_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_201603091102404_201603097102558_001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201603091033800_201603097034255_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201603091034302_201603097034631_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201603091054302_201603097054235_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309105758_20160309710223_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309105719_20160309710223_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201603091033034_20160309710223_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309101831_201603097102541_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201603091111233_201603097102541_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201603091111233_2016030971102541_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_201603091111233_2016030971102541_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_2016030911133818_2016030971102541_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_2016030911133818_2016030971103412_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_2016030911133818_2016030971103412_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309113380_2016030971103412_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309113380_20160309711034312_B001  Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_	CS_OFFL_SIR_GOP_220160309T020349_20160309T020358_B001	Ice Range Averaging Status	
CS_OFF_SIR_GOP_2_2016030971033800_201603097034855_8001  coe Range Averaging Status  The Coerage Averaging Status  The Ce Range Averaging Status  The Ce Ran	CS_OFFL_SIR_GOP_220160309T020404_20160309T020730_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T034302_20160309T065314_B001  Loc Range Averaging Status  Tecords.  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T065719_20160309T070223_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T085334_20160309T070223_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T083336_20160309T093013_B001  Loc Range Averaging Status  CS_OFFL_SIR_GOP_2_20160309T083336_20160309T093013_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T101831_20160309T102038_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T102130_20160309T102541_B001  Loc Range Averaging Status  CS_OFFL_SIR_GOP_2_20160309T11233_20160309T111321_B001  Loc Range Averaging Status  CS_OFFL_SIR_GOP_2_20160309T113373_D1800309T102442_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T13518_20160309T133720_B001  Loc Range Averaging Status  CS_OFFL_SIR_GOP_2_20160309T13518_20160309T133720_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T13518_20160309T133720_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T1351441_20160309T1553_B001  Loc Range Averaging Status  The Loc Range Averaging Status Flag has been set for one or more records.  The Loc Range Averaging Status Flag has been set for one or more records.  The Loc Range Averaging Status Flag has been set for one or more records.  The Loc Range Averaging Status Flag has been set	CS_OFFL_SIR_GOP_220160309T025736_20160309T030025_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160309T103339_20160309T1093613_B001	CS_OFFL_SIR_GOP_220160309T065719_20160309T070223_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T101831_20160309T102038_B001	CS_OFFL_SIR_GOP_220160309T083934_20160309T084127_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160309T133800_20160309T134312_B001	CS_OFFL_SIR_GOP_220160309T115626_20160309T120442_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T151441_20160309T151530_B001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T151725_20160309T152329_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T183641_20160309T170159_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_GOP_2_20160309T20150_20160309T201534_B001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160309T133518_20160309T133720_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20160309T201540_20160309T201547_B001  CS_OFFL_SIR_GOP_2_20160309T201548_20160309T201554_B001  CS_OFFL_SIR_GOP_2_20160309T201548_20160309T201554_B001  CS_OFFL_SIR_GOP_2_20160309T201554_20160309T201931_B001  CS_OFFL_SIR_GOP_2_20160309T201554_20160309T201931_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_220160309T183641_20160309T184050_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T201540_20160309T201554_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_20160309T201554_20160309T201931_B001  Ice Range Averaging Status  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160309T201050_20160309T201534_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_201603091201946_201603091201934_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_220160309T201540_20160309T201547_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2z01003091201554_z01003091201931_B001 IICE Range Averaging Status records.  The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220160309T201548_20160309T201554_B001	Ice Range Averaging Status	
CS OFFI SIR COR 2 201603007314017 201603007315433 R001 Ico Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220160309T201554_20160309T201931_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_Z_201603091214917_201603091215433_B001 lice Range Averaging Status records.	CS_OFFL_SIR_GOP_220160309T214917_20160309T215433_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T215446_20160309T215451_B001 Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160309T215446_20160309T215451_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T215508_20160309T215644_B001	CS_OFFL_SIR_GOP_220160309T215508_20160309T215644_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T232842_20160309T233343_B001	CS_OFFL_SIR_GOP_220160309T232842_20160309T233343_B001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOP_2_20160309T233344_20160309T233350_B001	CS_OFFL_SIR_GOP_220160309T233344_20160309T233350_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T233408_20160309T233418_B001	CS_OFFL_SIR_GOP_220160309T233408_20160309T233418_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160309T233422_20160309T233523_B001	CS_OFFL_SIR_GOP_220160309T233422_20160309T233523_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:

26

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160309T001946_20160309T002427_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T002506_20160309T002619_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T020002_20160309T020341_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T020404_20160309T020730_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T025736_20160309T030025_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T033800_20160309T034255_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T034302_20160309T034631_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T051758_20160309T052326_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T065719_20160309T070223_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T083934_20160309T084127_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T093336_20160309T093613_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T101831_20160309T102038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T102130_20160309T102541_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T111233_20160309T111321_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T115626_20160309T120442_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T133518_20160309T133720_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T133800_20160309T134312_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T151441_20160309T151530_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T151725_20160309T152329_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T183641_20160309T184050_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T201050_20160309T201534_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160309T201554_20160309T201931_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T215446_20160309T215451_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T215508_20160309T215644_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T233408_20160309T233418_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160309T233422_20160309T233523_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: