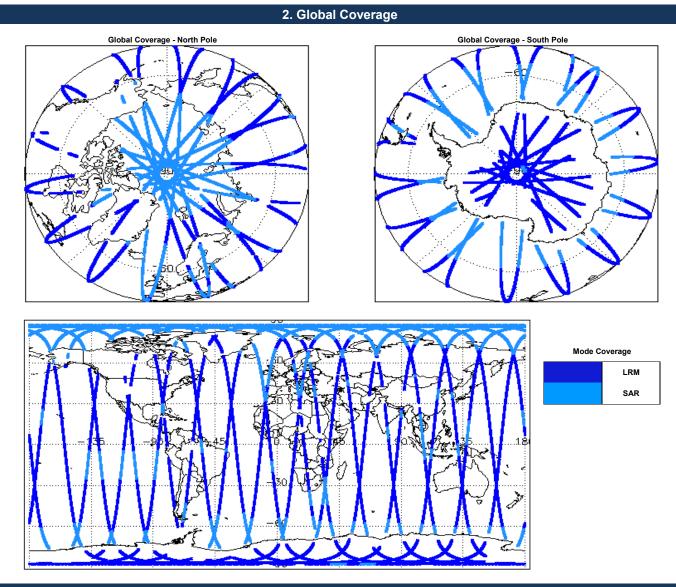


# IDEAS+ Daily Report for GOP data:

# <u>25/10/2015</u>

Report Production Date:	25-Nov-2015	Check	Status	
	25-1100-2015	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
	CryoSal Ocean Processor	Product Software Check	Nominal	
	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	
	L1B and L2 Science Data	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	
ission / Instrument News				
24-Oct-2015 None				
25-Oct-2015 None				
26-Oct-2015 Nothing planned	l i i i i i i i i i i i i i i i i i i i			



# 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. Number of products with errors: 0

### 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.

0

2

17

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_20151025T045927_20151025T051314_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_20151025T064105_20151025T065115_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_20151025T020515_20151025T021358_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T021928_20151025T022712_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T031546_20151025T032134_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T053742_20151025T054426_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T064105_20151025T065115_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T070149_20151025T071157_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T095213_20151025T095445_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T103950_20151025T104030_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T113103_20151025T113530_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T122920_20151025T123100_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T143530_20151025T144020_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T145058_20151025T145312_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T145312_20151025T152704_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T164916_20151025T165853_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T190029_20151025T190250_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T202857_20151025T202953_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151025T234814_20151025T235602_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: 0

#### 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: 0

## 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.

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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_220151025T040654_20151025T042018_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220151025T045927_20151025T051313_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_220151025T051528_20151025T053148_B001	For the long Period 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_220151025T110847_20151025T111351_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_220151025T122227_20151025T122619_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_220151025T140103_20151025T140828_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_220151025T145312_20151025T152704_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_220151025T152924_20151025T153011_B001	Fauilibrium 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_220151025T164916_20151025T165853_B001	For the second the second trace (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_220151025T182541_20151025T183431_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_220151025T190029_20151025T190250_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220151025T191248_20151025T191923_B001	Fauilibrium 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_220151025T200908_20151025T201113_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_220151025T202553_20151025T202838_B001	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_220151025T213104_20151025T215649_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_220151025T234537_20151025T234720_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220151025T235940_20151026T003228_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

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## 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors: 2

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220151025T045927_20151025T051313_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220151025T064105_20151025T065115_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. 32

### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20151025T013028_20151025T013137_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T013137_20151025T013142_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T013142_20151025T013549_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T030537_20151025T031035_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T031041_20151025T031048_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T031055_20151025T031412_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T044423_20151025T044933_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T044940_20151025T044946_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T044946_20151025T044952_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T044952_20151025T045004_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T045009_20151025T045141_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T062851_20151025T062902_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T062908_20151025T062918_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T062923_20151025T063025_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T080419_20151025T080800_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T080822_20151025T081120_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T094201_20151025T094714_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T094721_20151025T095047_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_2_20151025T112201_20151025T112747_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T112801_20151025T112849_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T144321_20151025T130640_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T144321_20151025T144542_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T16253_20151025T162449_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T162650_2015025T162449_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T162650_2015025T16249_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T162451205T16249_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T171647_20151025T171837_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T180423_20151025T180453_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20151025T202857_20151025T202953_B001Ice Range Averaging StatusThe Ice Range			
CS_OFFL_SIR_GOP_2_20151025111260_201510251130640_B001 Ice Range Averaging Status records.   CS_OFFL_SIR_GOP_2_20151025T130129_20151025T144542_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T162253_20151025T162449_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T162253_20151025T162449_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T162630_20151025T162952_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T171647_2015025T171837_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T180411_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T180413_20151025T180411_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T180423_20151025T194754_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T2102557_20151025T202953_B001 Ice Range Averaging Status The I	CS_OFFL_SIR_GOP_220151025T112201_20151025T112747_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_2_20151025T162253_20151025T162459_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T1622630_20151025T162459_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T1762630_20151025T1762952_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T171647_20151025T171837_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T180119_20151025T180411_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T180423_20151025T180431_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T193924_20151025T194754_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T202857_20151025T202953_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T211850_20151025T212015_B001 ice Range Averaging Status The lce Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T21185	CS_OFFL_SIR_GOP_220151025T130129_20151025T130640_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_220151025T171647_20151025T171837_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T171647_20151025T171837_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T180119_20151025T180411_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T180423_20151025T180853_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T193924_20151025T194754_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T202857_20151025T202953_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T211850_20151025T2120553_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T212136_20151025T2120553_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T212136_20151025T212253_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T212136_20151025T2122553_B001Ice Range Averaging StatusThe lce Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220151025T21025T230048_20151025T230633_B001Ice Range Averagi	CS_OFFL_SIR_GOP_220151025T162253_20151025T162449_B001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOP_220151025T180423_20151025T180853_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T180423_20151025T180853_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T193924_20151025T194754_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T202857_20151025T202953_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T211850_20151025T2102953_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T211850_20151025T2102553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T212136_20151025T212055_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T21230648_20151025T212563_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2201	CS_OFFL_SIR_GOP_220151025T171647_20151025T171837_B001	Ice Range Averaging Status	0 00 0
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CS_OFFL_SIR_GOP_220151025T202857_20151025T202953_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T211850_20151025T212015_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T211850_20151025T212053_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T230048_20151025T230633_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220151025T180423_20151025T180853_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2201510251212850_201510251212055_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_220151025T230048_20151025T230633_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220151025T193924_20151025T194754_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20151025T212136_20151025T212553_B001 Ice Range Averaging Status records.   CS_OFFL_SIR_GOP_2_20151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.   CS_OFFL_SIR_GOP_2_20151025T212136_20151025T212553_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220151025T202857_20151025T202953_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2201510251212136_201510251212553_B001 ICC Range Averaging Status records. The Icc Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220151025T211850_20151025T212015_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_GOP_2_20151025T230048_20151025T230633_B001	Ice Range Averaging Status	

### 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. 22

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220151025T030537_20151025T031035_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T031041_20151025T031048_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T031055_20151025T031412_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T044946_20151025T044952_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T062851_20151025T062902_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T062908_20151025T062918_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T062923_20151025T063025_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T080419_20151025T080800_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T080822_20151025T081120_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T094201_20151025T094714_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T094721_20151025T095047_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T112201_20151025T112747_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T112801_20151025T112949_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T130129_20151025T130640_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T144321_20151025T144542_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T162253_20151025T162449_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T162630_20151025T162952_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T180119_20151025T180411_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T193924_20151025T194754_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T211850_20151025T212015_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151025T212136_20151025T212553_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151025T230048_20151025T230633_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: 152