

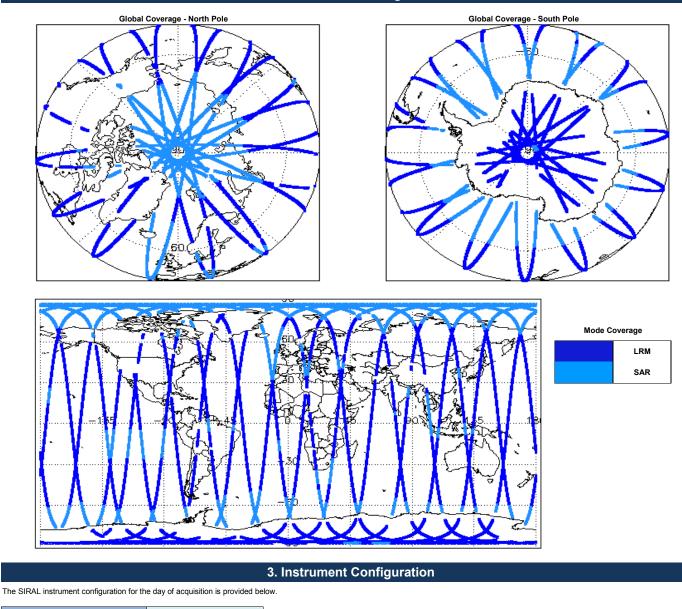
# IDEAS+ Daily Report for GOP data:

# <u>05/09/2015</u>

Report Production Date:	06-Oct-2015	Check	Status	
Report Froduction Date.	00-00-2015	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Flocessol Used.	CryoSal Ocean Flocesson	Product Software Check	Nominal	
Data Usadu	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	
Data Used:	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	
		<u> </u>		
lission / Instrument News				
04-Sep-2015 None				
05-Sep-2015 None				

05-Sep-2015	None
06-Sep-2015	Nothing planned

2. Global Coverage



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.

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_20150905T050727_20150905T054226_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_20150905T094037_20150905T095127_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_20150905T132809_20150905T132952_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.

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Number of products with errors: 11

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20150905T013721_20150905T013902_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T014005_20150905T014803_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T050727_20150905T054226_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T075538_20150905T081128_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T091659_20150905T093915_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T123227_20150905T123456_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T132952_20150905T133051_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T145918_20150905T145945_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T191229_20150905T192722_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T200043_20150905T201802_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150905T230855_20150905T230956_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: 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_220150905T031153_20150905T031310_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220150905T064429_20150905T064544_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_220150905T064544_20150905T070620_B001	For 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_220150905T075538_20150905T081128_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_220150905T082441_20150905T084524_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

CS_OFFL_SIR_GOP_220150905T095127_20150905T095142_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_220150905T114420_20150905T114544_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220150905T133051_20150905T134043_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_220150905T134918_20150905T135403_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_220150905T150246_20150905T150751_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_220150905T150853_20150905T150942_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220150905T191229_20150905T192722_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_220150905T192923_20150905T193849_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_220150905T210626_20150905T211415_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220150905T214421_20150905T215929_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_220150905T230855_20150905T230956_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_220150905T050727_20150905T054226_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220150905T094037_20150905T095127_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220150905T132809_20150905T132952_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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220150905T005236_20150905T005831_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T023143_20150905T023702_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T041030_20150905T041145_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T041145_20150905T041152_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T041152_20150905T041559_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T054533_20150905T055043_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T055043_20150905T055049_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T055049_20150905T055056_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20150905T055103_20150905T055400_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20150905T063405_20150905T063735_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20150905T072948_20150905T072954_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T072954_20150905T073000_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20150905T073019_20150905T073145_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T090851_20150905T090859_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T090916_20150905T090926_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20150905T090933_20150905T091037_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T104432_20150905T104808_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T104815_20150905T104824_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T104830_20150905T105145_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T122214_20150905T122722_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T122729_20150905T123056_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150905T140213_20150905T140754_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
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Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
	Ice Range Averaging Status 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. 25

## Number of products with errors:

CS_OFFL_SIR_GOP_2_201500051002314_2015000510023702_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_201500051041030_201500051041569_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_201500051041569_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_201500051056043_20150005105506_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_20150005105504_20150005105506_B001     Ice Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_20150005105030_D1050506_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_20150005100303_D1050051003373_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_D150005100330_D1050051003373_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.       CS_OFFL_SIR_GOP_2_D150005100330_D105005100337_B001     Ice Backscatter Averaging Status     The loc Backscatter Averaging Status Flag has been set for one or more records.	Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_00150005104103102302   Die Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_001500051041152_00150051041559_B001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_00150005105403_B001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_001500051055040_B001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_001500051055102_0015005010557305_E001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_0150005100510025100510051032540_B001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_015000510051032540_B001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_015000510051033_E001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_015000510432_01500501031_E001   toe Backscatter Averaging Status   The Lee Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_	CS_OFFL_SIR_GOP_220150905T005236_20150905T005831_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_0015000101101102_00150001011011102_00101   The loc Backscatter Averaging Status   The loc Backscatter Averaging Status     CS_OFFL_SIR_GOP_2_001500057041152_201500057055043_B001   toe Backscatter Averaging Status   The loc Backscatter Averaging Status	CS_OFFL_SIR_GOP_220150905T023143_20150905T023702_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150005T05433_20150005T055043_B001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T055049_2015005T055040_005T055040_005T055064_001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T05506_005T05506_0001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T05506_20150005T055400_B001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T072945_20150005T072945_B001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T04032_20150005T04037_B001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T104302_20150005T104080_B001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T104302_20150005T122722_B001   Ice Backscatter Averaging Status   The loc Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T140213_20150005T140546_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220150905T041030_20150905T041145_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_201500510533_001   Ice Backscatter Averaging Status   records.     CS_OFFL_SIR_GOP_2_20150057055040_20150905705506_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_2015005705405_201509057055400_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150057072948_20150905702948_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201500507090033_201509057091037_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201509057104432_201509057104480_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201509057104432_201509057105455_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201509057102294_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905710480_20150905710291037_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905710480_20150905710294_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201509057140754_B001   Ice Backscatter Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220150905T041152_20150905T041559_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150005105049_0150050105056_0001   Ice Backscatter Averaging Status   records.     CS_OFFL_SIR_GOP_2_20150005705103_025050051053735_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005702948_01500051027394_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201500057102948_01500051027394_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201500057104432_01500051104745_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005710433_01500051102729_00051102729_00051122722_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201500051122729_201500051122729_001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201500051140213_201500051122729_001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201500051140245_01500051140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records. <t< td=""><td>CS_OFFL_SIR_GOP_220150905T054533_20150905T055043_B001</td><td>Ice Backscatter Averaging Status</td><td></td></t<>	CS_OFFL_SIR_GOP_220150905T054533_20150905T055043_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150905T063405_20150905T06335_B001   Ice Backscatter Averaging Status   records.     CS_OFFL_SIR_GOP_2_20150905T072948_20150905T072954_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T072948_20150905T072954_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T1044032_20150905T104408_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T1044032_20150905T104408_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122722_10150905T122722_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122722_0150905T122722_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140056_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records. <t< td=""><td>CS_OFFL_SIR_GOP_220150905T055049_20150905T055056_B001</td><td>Ice Backscatter Averaging Status</td><td></td></t<>	CS_OFFL_SIR_GOP_220150905T055049_20150905T055056_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_201500511003405_001003405_01003405_0100375_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T072948_0100137_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150005T104432_20150905T104480_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T104430_20150905T105145_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122722_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122729_20150905T120266_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140445_20150905T140956_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140445_20150905T12541_B001   Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220150905T055103_20150905T055400_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_2015090510/2948_001   Ice Backscatter Averaging Status   records.     CS_OFFL_SIR_GOP_2_20150905T09037_8001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T104432_20150905T104432_20150905T105145_8001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T12214_20150905T122722_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122729_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140435_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140455_0150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_	CS_OFFL_SIR_GOP_220150905T063405_20150905T063735_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150905109033_01090031091037_B001   ice Backscatter Averaging Status   inecords.     CS_OFFL_SIR_GOP_2_20150905T104430_20150905T1044808_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122214_20150905T122722_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122729_20150905T122722_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T142754_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140754_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140845_20150905T140956_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140845_20150905T190459_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T190301_20150905T190459_B001   ice Backscatter Averaging Status   The loe Backscatter Averaging Status Flag has been set for one or more records. <t< td=""><td>CS_OFFL_SIR_GOP_220150905T072948_20150905T072954_B001</td><td>Ice Backscatter Averaging Status</td><td></td></t<>	CS_OFFL_SIR_GOP_220150905T072948_20150905T072954_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150905T104830_20150905T105145_B001   Ice Backscatter Averaging Status   Tecords.     CS_OFFL_SIR_GOP_2_20150905T122214_20150905T122722_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122729_20150905T122729_20150905T122729_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140845_20150905T140956_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140845_20150905T140956_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T172341_20150905T172551_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T19005119005E19005E19005B05T19005B05T19005B05T19005B05T19005E19005E19005T19005E19005T19005E1900EE0E0E0E0E0E0E0E0EEEEEEEEEE	CS_OFFL_SIR_GOP_220150905T090933_20150905T091037_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150905T10483_20150905T10505T10505T10505T10505T10505T10505T10505T10505T10505T10505T10505T122722_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T122729_20150905T12056_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140754_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140845_20150905T140956_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T140845_20150905T140956_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T172341_20150905T172551_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T190301_20150905T190459_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T190301_20150905T190459_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T195652_20150905T195820_B001   Ice Backscatter Averaging	CS_OFFL_SIR_GOP_220150905T104432_20150905T104808_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150905T122214_20150905T12222_B001Ice Backscatter Averaging Statusrecords.CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140256_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T140213_20150905T140956_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T140845_20150905T140956_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T154648_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T172341_20150905T172551_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T190301_20150905T190459_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T190621_20150905T190459_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T190621_20150905T1902_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T190621_20150905T204903_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20150905T221936_20150905T204903_B001Ice Backsca	CS_OFFL_SIR_GOP_220150905T104830_20150905T105145_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150905112279_201509051140056_B001Ice Backscatter Averaging Statusrecords.CS_OFFL_SIR_GOP_2_201509051140245_201509051140956_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051140845_201509051140956_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051140212_201509051172341_201509051172551_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051190301_201509051190459_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051190621_201509051190459_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051190621_201509051190620_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051204117_201509051195820_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051204117_201509051204903_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051204117_201509051204903_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_201509051222136_201509	CS_OFFL_SIR_GOP_220150905T122214_20150905T122722_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20150905T140845_20150905T140956_B001   Ice Backscatter Averaging Status   records.     CS_OFFL_SIR_GOP_2_20150905T154138_20150905T154648_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T172341_20150905T172341_20150905T172551_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T190301_20150905T190459_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T190621_20150905T190459_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T190621_20150905T19002_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T195652_20150905T195820_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T204903_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_20150905T204903_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP	CS_OFFL_SIR_GOP_2_20150905T122729_20150905T123056_B001	Ice Backscatter Averaging Status	
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CS_OFFL_SIR_GOP_2_201509057221936_201509057222150_B001   Ice Backscatter Averaging Status   records.     CS_OFFL_SIR_GOP_2_20150905722200_201509057222150_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_201509057222200_201509057222757_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.     CS_OFFL_SIR_GOP_2_2015090572325659_20150905700017_B001   Ice Backscatter Averaging Status   The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220150905T195652_20150905T195820_B001	Ice Backscatter Averaging Status	
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US UEEL SIR GUP Z ZU1509051Z35859 ZU1509061000017 BU01 UCE BACKSCATTER AVERAGING STATUS	CS_OFFL_SIR_GOP_2_20150905T222200_20150905T222757_B001	Ice Backscatter Averaging Status	
	CS_OFFL_SIR_GOP_2_20150905T235859_20150906T000017_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: