

# IDEAS+ Daily Report for GOP data:

## <u>01/10/2015</u>

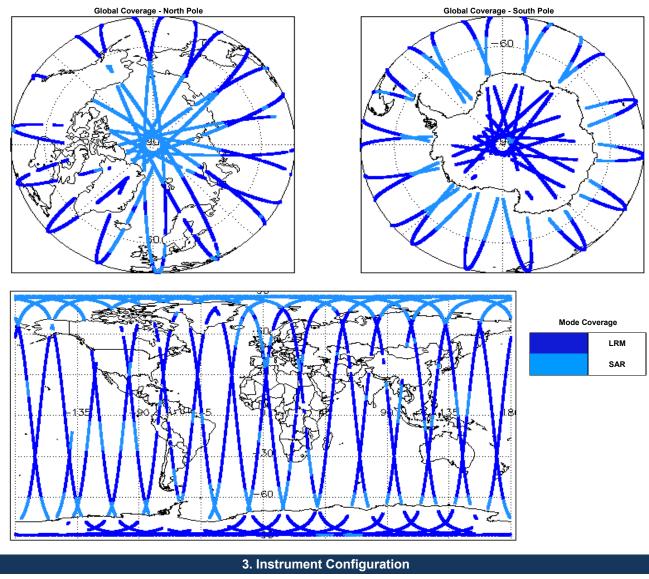


## 1. Overview

Report Production Date:	03-Nov-2015	Check	Status	
Report Production Date:		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Used.		Product Software Check	Nominal	
Data Used:	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 4.6, 5.6, 5.7 and 5.8	

Mission / Instrument News		
30-Sep-2015	None	
01-Oct-2015	SIRAL unavailability from 23:30:32 on 1-Oct-2015 to 00:26:54 on 2-Oct-2015 due to a planned orbit manoeuvre.	
02-Oct-2015	Nothing planned	

## 2. Global Coverage



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

4.2.1.4. Auvilant Data Fila Llagga Chaok			
4.3 L1B Auxilary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pre-de Number of products with errors: 0	etermined baseline and also to check the val	idity of Auxiliary Data Files is correct.	
4.4 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag (field 60) for each measurement Number of products with errors: 0	record. The bit value of this flag indicates a	ny problems when set.	
4.5 L1B Measurement Confidence Data Check			
	anurament record. The hit value of this flag is		
CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement of products with errors: 0		locates any problems when set.	
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 ar	ny 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: 12			
Product	Test Failed	Description	
CS_OFFL_SIR_GOP_1B_20151001T011954_20151001T015234_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T023523_20151001T023638_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T024823_20151001T025640_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T062349_20151001T063331_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T073815_20151001T074037_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS OFFL SIR GOP 1B 20151001T112245 20151001T114714 B001	Loss of Echo	The tracking echo is missing for one or more records	
	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T124833_20151001T125542_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T161116_20151001T161442_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T170211_20151001T171826_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T185634_20151001T191230_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20151001T223307_20151001T223528_B001	Loss of Echo	The tracking echo is missing for one or more records	
5 60	P Level 2 Data Quality Ch	ack	
	Lovor 2 Bata Quanty on		
5.1 L2 Product Format Check			
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML header file (.H	IDR) 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 S Number of products with errors: 0	PH in order to identify any inconsistencies ar	nd/or errors raised by the ground-segment processing chain.	
5.2.1.2 Auviliana Deta Fila Llagga Chask			
5.3 L2 Auxiliary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pre-de	etermined baseline and also to check the val	idity 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: 0			
5.4 L2 Auxiliary Correction Error Check			
For all products, the auxiliary corrections within the Geophysical Group are check	ed for the default error value (32767)		
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).			
Currently, there are two common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.			
Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected.			
Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.			
Number of products with errors: 24			
Product	Test Failed	Description	
	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2:	
CS_OFFL_SIR_GOP_220151001T005822_20151001T010240_B001	Equilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records	
CS_OFFL_SIR_GOP_220151001T010534_20151001T010733_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_220151001T021049_20151001T023522_B001	Geoid Height	There is an error with the Geoid height for one or more records	
CS_OFFL_SIR_GOP_220151001T023850_20151001T024443_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 There is an error with the Total Geocentric Ocean Tide height (solution 2:	
CS_OFFL_SIR_GOP_220151001T024823_20151001T025640_B001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records	
CS_OFFL_SIR_GOP_220151001T045412_20151001T051100_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_220151001T062349_20151001T063331_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records	

CS\_OFFL\_SIR\_GOP\_2\_\_20151001T063332\_20151001T063534\_B001

 Equilibrium Long Period Ocean Tide
 IFES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

 more records

CS_OFFL_SIR_GOP_220151001T090057_20151001T091044_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_220151001T092946_20151001T093142_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_220151001T093142_20151001T093530_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_220151001T124833_20151001T125542_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_220151001T141816_20151001T142724_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_220151001T143334_20151001T143515_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_220151001T160622_20151001T160843_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220151001T170211_20151001T171826_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_220151001T180711_20151001T180925_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_220151001T185455_20151001T185634_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_220151001T185634_20151001T191230_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_220151001T191716_20151001T191908_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_220151001T193020_20151001T194039_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_220151001T204231_20151001T204332_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_220151001T210812_20151001T211552_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_220151001T211805_20151001T212750_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: 0

### 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_220151001T002053_20151001T002636_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T015957_20151001T020508_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T033752_20151001T033956_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T033956_20151001T034003_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T034003_20151001T034417_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T042514_20151001T042631_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T051335_20151001T051855_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T051901_20151001T051907_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T051908_20151001T051914_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T051914_20151001T052122_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T065300_20151001T065755_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T065755_20151001T065758_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T065759_20151001T065806_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T065830_20151001T065947_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T083241_20151001T083722_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T083744_20151001T083907_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T101222_20151001T101622_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T101626_20151001T101636_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T101642_20151001T102007_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220151001T115054_20151001T115536_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T115540_20151001T115911_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T133040_20151001T133603_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T151009_20151001T151501_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T165214_20151001T165406_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T165732_20151001T165812_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T183103_20151001T183320_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T183358_20151001T183817_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T200853_20151001T201723_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T214800_20151001T214953_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T215047_20151001T215530_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T232728_20151001T232748_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151001T233005_20151001T233032_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. 25

#### Number of products with errors:

CS_OFFL_SIR_GOP_2_20151001T05607_20151001T03056_B001         rec Backscater Averaging Status         The ice Backscater Averaging Status Flag has been set for one or more code.           CS_OFFL_SIR_GOP_2_20151001T030752_20151001T03056_B001         tee Backscater Averaging Status         The ice Backscater Averaging Status Flag has been set for one or more code.           CS_OFFL_SIR_GOP_2_20151001T042514_20151001T04251_B001         tee Backscater Averaging Status         The ice Backscater Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20151001T05136_20151001T05194_B001         tee Backscater Averaging Status         The ice Backscater Averaging Status Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20151001T05194_D0101T05212_B001         tee Backscater Averaging Status         The ice Backscater Averaging Status         Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20151001T053194_D010T05212_B001         tee Backscater Averaging Status         Flag has been set for one or more records.           CS_OFFL_SIR_GOP_2_20151001T063247_20010T063272_B001         tee Backscater Averaging Status         Flag bas been set for one or more records.           CS_OFFL_SIR_GOP_2_20151001T063247_201500T063307_B001         tee Backscater Averaging Status         Flag bas been set for one or more records.           CS_OFFL_SIR_GOP_2_20151001T063247_D001T063207_B001         tee Backscater Averaging Status         Flag bas been set for one or more records.           CS_OFFL_SIR_GOP_2_20151001T063772_D001T063307_B001	Product	Test Failed	Description
CS_OFF_SIR_GOP_2_00151001103362_0015001103463_B001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011042514_00150011042514_0011       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011042514_00150011042515_0001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011051032_001500110510555_B001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_20151001105104251_2001100510514_B001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_20151001106530_01510011050547_B001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011063241_0011003307_B001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011063744_0011003307_B001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011063744_00110103307_B001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011101638_0011101638_001       ice Backscatter Averaging Status       The ice Backscatter Averaging Status         CS_OFF_SIR_GOP_2_201510011101642_0151001110422_0151001110422_0150011101638_0001       ice Backscatter Averaging Status       The ice Backscatter	CS_OFFL_SIR_GOP_220151001T015957_20151001T020508_B001	Ice Backscatter Averaging Status	
Column Calific Structure         Column Calific Structure         Column Calific Structure         Column Calific Structure           CS_OFFL_SIR_GOP_2_20151001T042514_20151001T04255_B001         toe Backscatter Averaging Status         The Loe Backscatter Averaging Status         The Loe Backscatter Averaging Status         Fig. Column Calific Structure           CS_OFFL_SIR_GOP_2_20151001T051352_20151001T05145_B001         toe Backscatter Averaging Status         The Loe Backscatter Averaging Status         The Loe Backscatter Averaging Status         Fig. Column Calific Structure           CS_OFFL_SIR_GOP_2_20151001T05194_20151001T05194_B001         toe Backscatter Averaging Status         The Loe Backscatter Averaging Status         Fig. Cole Backscatter Averaging Status         Fig. Col	CS_OFFL_SIR_GOP_220151001T033752_20151001T033956_B001	Ice Backscatter Averaging Status	
CL_UFF_SIR_GOP_2_0151001104.20151001104.251_8001Incle Backscatter Averaging Statusrecords.CS_OFFL_SIR_GOP_2_001510017051335_2015100117051945_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_00151001705194_20151001705194_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_00151001705194_201510017052122_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_001510017063241_201510017063947_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_001510017063241_201510017063947_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_01510017106322_201510017106326001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_0151001710642_20151001710628_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_0151001710642_201510017105036_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_0151001710504_201510017115054_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_01510017115054_201510017115056_B001Ice Backscatter Averaging StatusThe	CS_OFFL_SIR_GOP_220151001T034003_20151001T034417_B001	Ice Backscatter Averaging Status	
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CS_OFFL_SIR_GOP_2_20151001T1133040_20151001T1133603_B001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_GOP_2_20151001T133040_20151001T153063_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T151009_20151001T16501_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T165214_20151001T165406_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T165732_20151001T165812_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183103_20151001T165812_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183103_20151001T183302_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183358_20151001T183817_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T2100853_20151001T201723_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220151001T115054_20151001T115536_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20151001T151009_20151001T151501_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T165214_20151001T165406_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T165214_20151001T165812_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183103_20151001T165812_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183103_20151001T183320_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183358_20151001T183817_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T20853_20151001T21723_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag h	CS_OFFL_SIR_GOP_220151001T115540_20151001T115911_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20151001T151009_20151001T151501_B001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_GOP_2_20151001T165214_20151001T165406_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T165732_20151001T165812_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183103_20151001T183320_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183358_20151001T183370_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T200853_20151001T201723_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T201723_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GO	CS_OFFL_SIR_GOP_220151001T133040_20151001T133603_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20151001T165732_20151001T165812_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T163732_20151001T165812_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183103_20151001T183320_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183358_20151001T183817_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T200853_20151001T201723_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T214953_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215030_B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215303_2 B001       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status Fl	CS_OFFL_SIR_GOP_220151001T151009_20151001T151501_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20151001T183103_20151001T183320_B001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_GOP_2_20151001T183103_20151001T183320_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T183358_20151001T183817_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T200853_20151001T201723_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T233005_20151001T233032_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records. <td>CS_OFFL_SIR_GOP_220151001T165214_20151001T165406_B001</td> <td>Ice Backscatter Averaging Status</td> <td></td>	CS_OFFL_SIR_GOP_220151001T165214_20151001T165406_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20151001T183305_20151001T183320_B001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_GOP_2_20151001T200853_20151001T183817_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T200853_20151001T201723_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T21530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T21530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T233005_20151001T233032_2005       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220151001T165732_20151001T165812_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20151001T200853_20151001T201723_B001       Ice Backscatter Averaging Status       records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T214800_20151001T214953_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20151001T215047_20151001T21530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220151001T183103_20151001T183320_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_201510011214800_201510011214953_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_201510011215047_201510011215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_201510011215047_201510011215530_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_201510011233005_201510011233032_B001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220151001T183358_20151001T183817_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_20151001T215047_20151001T215530_B001 Ice Backscatter Averaging Status Ice Backscatter Averaging Ice Backscatter	CS_OFFL_SIR_GOP_220151001T200853_20151001T201723_B001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_GOP_2_201510011233005 201510011233032 B001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220151001T214800_20151001T214953_B001	Ice Backscatter Averaging Status	
	CS_OFFL_SIR_GOP_220151001T215047_20151001T215530_B001	Ice Backscatter Averaging Status	
	CS_OFFL_SIR_GOP_220151001T233005_20151001T233032_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: 147