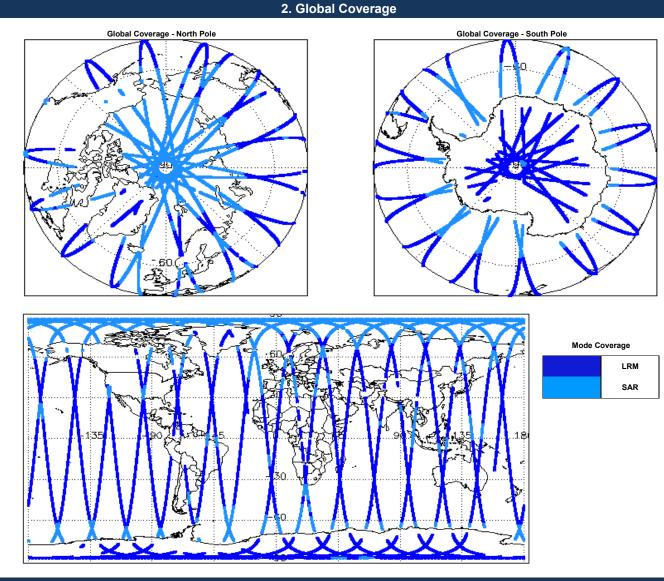


IDEAS+ Daily Report for GOP data:

<u>23/12/2015</u>

1. Overview			
Denest Dreduction Date:	22-Jan-2016	Check	Status
Report Production Date:	22-Jan-2016	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
FIOCESSOI USEU.		Product Software Check	Nominal
Data Used:	Geophysical Ocean Products (GOP)	Product Format Check	Nominal
Data Useu.	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 4.6, 5.6, 5.7 and 5.8

Mission / Instrument News		
22-Dec-2015	SIRAL unavailability on 22-Dec-2015 from 04:28:47 to 06:14:40 due to a planned orbit manoeuvre.	
23-Dec-2015	None	
24-Dec-2015	Nothing planned	



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

Each product is checked for missing Data Set Descriptors with respect to a pre		
- · · · · · · · · · · · · · · · · · · ·	e-determined baseline and also to check the va	alidity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 60) for each measureme	ent record. The bit value of this flag indicates :	any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each n	neasurement record. The bit value of this flag	indicates any problems when set.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measureme	ent record. The bit value of this flag indicates a	iny 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: 11		
Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20151223T011317_20151223T012013_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T022539_20151223T024037_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T032823_20151223T033043_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T043234_20151223T043403_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T102345_20151223T102521_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T123246_20151223T123945_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T131316_20151223T132100_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T195637_20151223T195838_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T200739_20151223T201542_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T213323_20151223T213717_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20151223T230028_20151223T231301_B001	Loss of Echo	The tracking echo is missing for one or more records
5. GC	OP Level 2 Data Quality Ch	IECK
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 a	and/or errors raised by the ground-segment processing chain.
Number of products with errors: 0		
5.3 L2 Auxiliary Data File Usage Check		
5.5 LZ Auxiliary Data File Osage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre	-determined baseline and also to check the va	alidity of Auxiliary Data Files is correct.
Wind Model File Usage: This file is currently not included in all L2 products.	-determined baseline and also to check the va	alidity of Auxiliary Data Files is correct.
Wind Model File Usage: This file is currently not included in all L2 products.	-determined baseline and also to check the va	alidity 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	e-determined baseline and also to check the va	alidity 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		alidity 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 cher	cked for the default error value (32767).	
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 chec Currently, there are two common auxiliary correction errors raised in the	cked for the default error value (32767). Level 2 products which are expected due t	
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 chec Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for	cked for the default error value (32767). Level 2 products which are expected due f om this test.	
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 cher Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land ar	cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected.	
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 cher Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from Sea State Bias Error: The error value is currently set for products over land are Altimetric Wind Speed Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: The error value is currently set for products over Sea State Bias Error: Sea State Bia	cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected.	
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 chere Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land ar Attimetric Wind Speed Error: The error value is currently set for products over land ar Number of products with errors: 20	cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected.	
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 chere. Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from Sea State Bias Error: The error value is currently set for products over land and altimetric Wind Speed Error: The error value is currently set for products over land and Altimetric Wind Speed Error: Number of products with errors: 20 Product 20	cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected. er land and sea ice, but this is to be expected.	to surface type. All common flags are summarised in the list below, Description
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 checologue by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the error value is currently set for products over land and antimetric Wind Speed Error: The error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for product so the product so the error set of product	cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected.	to surface type. All common flags are summarised in the list below, Description There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2 There is an error with the Total Geocentric Ocean Tide height (solution 2
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 chere Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land ar Altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: 20 Product 20 CS_OFFL_SIR_GOP_2_20151223T004659_20151223T010141_B001 CS_OFFL_SIR_GOP_2_20151223T021319_20151223T022336_B001	cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Nor	Description There is an error with the Total Geocentric Ocean Tide height (solution 2 FES) for one or more records 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
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 chere Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise from Sea State Bias Error: The error value is currently set for products over land are Altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: 20 Product 20 CS_OFFL_SIR_GOP_220151223T004659_20151223T010141_B001 CS_OFFL_SIR_GOP_220151223T021319_20151223T022336_B001 CS_OFFL_SIR_GOP_220151223T022539_20151223T024037_B001 CS_OFFL_SIR_GOP_220151223T022539_20151223T024037_B001	cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Noi Equilibrium Long Period Ocean Tide	Description There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records 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 Geoid height for one or more records There is an error with the Geoid height for one or more records 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 Geoid height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
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 chected of the second s	cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Geoid Height	Description There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
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 chected followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the followed by a table highlighting any additional issues which may arise from the error value is currently set for products over land are altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: CS_OFFL_SIR_GOP_2_20151223T004659_20151223T010141_B001 CS_OFFL_SIR_GOP_2_20151223T022539_20151223T024037_B001 CS_OFFL_SIR_GOP_2_20151223T033558_20151223T034257_B001 CS_OFFL_SIR_GOP_2_20151223T043403_20151223T050038_B001	cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Not Equilibrium Long Period Ocean Tide Geoid Height Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES)	Description There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) for one or more records 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: FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: 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 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 for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records
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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
Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES)
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
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
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
Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	more records
Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	more records
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
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
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
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
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
	Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), No

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. 35

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220151223T001536_20151223T001637_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010341_20151223T010903_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010903_20151223T010909_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010909_20151223T010915_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010916_20151223T010922_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010922_20151223T011133_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T015518_20151223T015539_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T024307_20151223T024802_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T024814_20151223T024820_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T024820_20151223T024831_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T024838_20151223T024956_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T042245_20151223T042730_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T042736_20151223T042745_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T042752_20151223T042911_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T060234_20151223T060629_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T060650_20151223T061015_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T070028_20151223T070254_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T074058_20151223T074543_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T074548_20151223T074919_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T092047_20151223T092611_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T110014_20151223T110509_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T120119_20151223T120641_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T124221_20151223T124414_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T133615_20151223T133918_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220151223T142112_20151223T142326_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T142408_20151223T142826_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151223T151545_20151223T151549_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T155903_20151223T160730_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T173807_20151223T174002_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T174053_20151223T174542_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T191734_20151223T191800_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T192013_20151223T192610_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151223T205920_20151223T210441_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T223811_20151223T223922_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151223T223929_20151223T224335_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. 28

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220151223T001536_20151223T001637_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151223T010341_20151223T010903_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010909_20151223T010915_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010916_20151223T010922_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T010922_20151223T011133_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T024814_20151223T024820_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T042245_20151223T042730_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T042736_20151223T042745_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T042752_20151223T042911_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T060234_20151223T060629_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T060650_20151223T061015_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T070028_20151223T070254_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T074058_20151223T074543_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T074548_20151223T074919_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T092047_20151223T092611_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T110014_20151223T110509_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T120119_20151223T120641_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T124221_20151223T124414_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T133615_20151223T133918_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T142112_20151223T142326_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T142408_20151223T142826_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T155903_20151223T160730_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T173807_20151223T174002_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T174053_20151223T174542_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T191734_20151223T191800_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T192013_20151223T192610_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T205920_20151223T210441_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151223T223811_20151223T223922_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: 151