

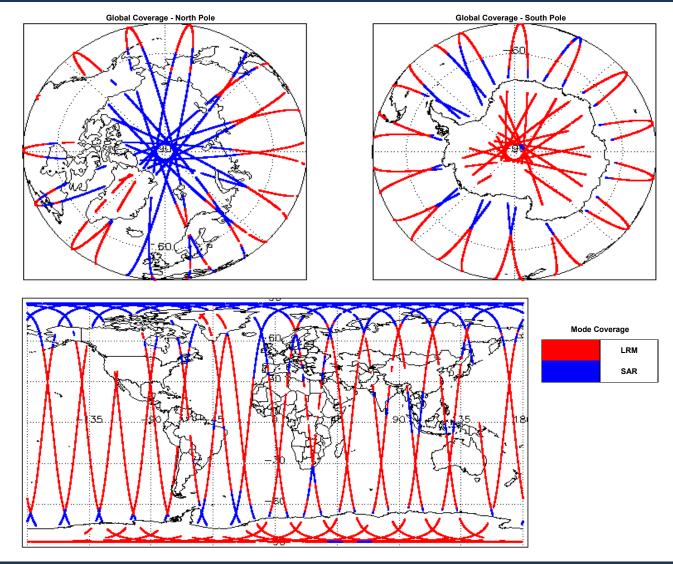
# IDEAS+ Daily Report for GOP data:

### <u>07/01/2016</u>

Report Production Date: 04-Feb-2016	04 Eab 2016	Check	Status
	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Usea.		Product Software Check	Nominal
Dete Heads	Geophysical Ocean Products (GOP) L1B and L2 Science Data	Product Format Check	Nominal
Data Used:		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
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lission / Instrument News			
06-Jan-2016 None			
07-Jan-2016 None			

07-Jan-2016	None
08-Jan-2016	None Nothing planned

## 2. Global Coverage



### 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

### SIRAL instrument(s) in use:

SIRAL - A

## 4. GOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a product file (.DBL). Number of products with errors: 0

#### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. 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 pro Number of products with errors: 0	re-determined baseline and also to check the va	lidity 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 measurem	pent record. The hit value of this flag indicates a	ny 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 a Number of products with errors: 0	measurement record. The bit value of this flag i	ndicates any problems when set.
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measurem	ent record. The bit value of this flag indicates a	ny problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
Number of products with errors: 6		
Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20160107T014437_20160107T014740_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160107T022057_20160107T022227_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160107T073251_20160107T073535_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160107T114314_20160107T120043_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160107T171924_20160107T172023_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160107T185442_20160107T185647_B001	Loss of Echo	The tracking echo is missing for one or more records
5. G	OP Level 2 Data Quality Ch	eck
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML header file (.)	HDR) and a product file (.DBL).
Number of products with errors: 0		
5.2 L2 Product Header Analysis		
or an products, a series of pre-defined checks are performed on the MPH and	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Number of products with errors: 0   5.3 L2 Auxiliary Data File Usage Check		
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 product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product of the set of the s		
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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 prewind Model File Usage: This file is currently not included in all L2 products.   Number of products with errors: 0		
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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 provide 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 checked 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 a futimetric Wind Speed Error: The error value is currently set for products over land a futimetric Wind Speed Error: The error value is currently set for products over land a futimetric Wind Speed Error:   Sea State Bias Error: 19   Product 19   CS_OFFL_SIR_GOP_2_20160107T022057_20160107T022277_B001 25   CS_OFFL_SIR_GOP_2_20160107T032548_20160107T035559_B001 25   CS_OFFL_SIR_GOP_2_20160107T041024851_20160107T04102_B001 25   CS_OFFL_SIR_GOP_2_20160107T041024_20160107T041035_B001 25   CS_OFFL_SIR_GOP_2_20160107T041224_20160107T041353_B001 25   CS_OFFL_SIR_GOP_2_20160107T03251_20160107T03555_B001 25	ecked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. 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) 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	Idity of Auxiliary Data Files is correct.   Description   There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) for one or more records   There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records   There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 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 (solution 1 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 1 FES) for one or more records
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 prewind 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 che 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 a Altimetric Wind Speed Error: The error value is currently set for products over land a Strimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Strimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimetric Wind Speed Error: The error value is currently set for products over land a Mitimation anditimetric Wind Speed Error: The error value	re-determined baseline and also to check the value (32767). The Level 2 products which are expected due to a comment of the set. The Level 2 products which are expected due to a comment of the set. The Level 2 products which are expected due to a comment of the set. The Level 2 products which are expected due to a comment of the set. The Level 2 products which are expected. The Level 2 products whic	Idity of Auxiliary Data Files is correct.
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 provide 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 checked bias Error: The error value is currently set for products over land at Autimetric Wind Speed Error: The error value is currently set for products over land at Autimetric Wind Speed Error: The error value is currently set for products over land at Autimetric Group are checked for products with errors:   CS_OFFL_SIR_GOP_2_20160107T022057_20160107T02227_B001   CS_OFFL_SIR_GOP_2_20160107T024851_20160107T025706_B001   CS_OFFL_SIR_GOP_2_20160107T041025748_20160107T04102_B001   CS_OFFL_SIR_GOP_2_20160107T04102451_20160107T04102_B001   CS_OFFL_SIR_GOP_2_20160107T04102451_20160107T041025508_B001   CS_OFFL_SIR_GOP_2_20160107T041224_20160107T04102_B001   CS_OFFL_SIR_GOP_2_20160107T041224_20160107T041025508_B001   CS_OFFL_SIR_GOP_2_20160107T041224_20160107T041353_B001   CS_OFFL_SIR_GOP_2_20160107T041224_20160107T041353_B001   CS_OFFL_SIR_GOP_2_20160107T041224_20160107T041353_B001   CS_OFFL_SIR_GOP_2_20160107T041224_20160107T041353_B001	ecked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. 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) 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	Idity of Auxiliary Data Files is correct.   Description   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) 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 (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) 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 (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
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 product is checked for missing Data Set Descriptors with respect to a product 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 the Corrently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Bea State Bias Error: The error value is currently set for products over land at Autmetric Wind Speed Error: The error value is currently set for products over land at Autmetric Wind Speed Error: The error value is currently set for products over land at Autmetric Wind Speed Error: The error value is currently set for products over land at Autmetric Bing Gop 2 _ 20160107T022057 _ 20160107T022227 _ B001   CS_OFFL_SIR_GOP 2 _ 20160107T024851 _ 20160107T025706 _ B001 0   CS_OFFL_SIR_GOP 2 _ 20160107T040000 _ 20160107T040102 _ B001 0   CS_OFFL_SIR_GOP 2 _ 20160107T041224 _ 20160107T041353 _ B001 0   CS_OFFL_SIR_GOP 2 _ 20160107T073251 _ 20160107T120043 _ B001 0   CS_OFFL_SIR_GOP 2 _ 20160107T114314 _ 20160107T12043 _ B001 0   CS_OFFL_SIR_GOP 2 _ 20160107T121953 _ 20160107T122119 _ B001 0	ecked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. 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) Total Geocentric Ocean Tide (FES) 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 Mean Sea Surface (1), Geoid Height,	Idity of Auxiliary Data Files is correct.   Description   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 1 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 1 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 1 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 1 FES) for one or more records   There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records   There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) for one or more records   There is an error with the Total Geocentric Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1 FES)

CS_OFFL_SIR_GOP_220160107T140937_20160107T141412_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_220160107T141523_20160107T141739_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_2_20160107T143424_20160107T144206_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_220160107T151713_20160107T152512_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_2_20160107T153854_20160107T154533_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_220160107T185442_20160107T185647_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_220160107T220755_20160107T221726_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_20160107T222751_20160107T222753_B001		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

### 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. 0

Number of products with errors:

### 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. 37

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160107T000115_20160107T000121_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160107T000121_20160107T000128_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T000128_20160107T000135_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T000135_20160107T000407_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T004356_20160107T004523_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T004614_20160107T004809_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T013514_20160107T014012_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T014012_20160107T014019_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T014019_20160107T014026_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T014027_20160107T014032_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T014051_20160107T014212_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T031435_20160107T031924_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T031925_20160107T031930_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T031930_20160107T031942_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T031948_20160107T031957_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T032005_20160107T032114_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T045508_20160107T045839_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T045902_20160107T050229_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T063255_20160107T063753_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T063801_20160107T064128_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T081253_20160107T081824_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160107T095212_20160107T095720_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T113429_20160107T113624_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T131331_20160107T131534_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T131635_20160107T132036_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T140726_20160107T140826_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T145132_20160107T145938_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T163014_20160107T163219_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T163253_20160107T163820_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160107T180934_20160107T181036_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_2_20160107T181222_20160107T181709_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T181717_20160107T181821_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T195131_20160107T195700_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160107T213032_20160107T213546_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T230610_20160107T231032_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T231039_20160107T231046_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T231046_20160107T231051_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. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160107T000115_20160107T000121_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T000121_20160107T000128_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T000135_20160107T000407_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T004356_20160107T004523_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T004614_20160107T004809_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T014027_20160107T014032_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T031435_20160107T031924_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T031925_20160107T031930_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T031948_20160107T031957_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T032005_20160107T032114_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T045508_20160107T045839_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T045902_20160107T050229_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T063255_20160107T063753_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T063801_20160107T064128_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T081253_20160107T081824_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T095212_20160107T095720_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T113429_20160107T113624_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T131331_20160107T131534_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T131635_20160107T132036_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T145132_20160107T145938_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T163014_20160107T163219_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T163253_20160107T163820_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T180934_20160107T181036_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T181222_20160107T181709_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T181717_20160107T181821_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T195131_20160107T195700_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T213032_20160107T213546_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T230610_20160107T231032_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T231046_20160107T231051_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160107T231051_20160107T231445_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: 137