

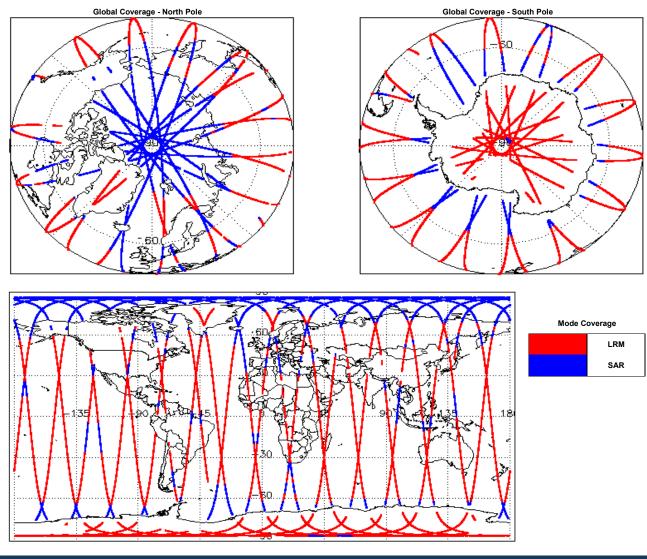
IDEAS+ Daily Report for GOP data:

<u>19/05/2017</u>

Report Production Date:	16-Jun-2017	Check	Status	
		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
Data Usa di	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	

20-May-2017	Nothing planned
19-May-2017	None
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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	e-determined baseline and also to check the val	lidity 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 measurem	ent record. The bit value of this flag indicates a	ny problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
ryoSat L1B data includes a measurement confidence flag (field 12) for each ι	measurement record. The bit value of this flag in	ndicates any problems when set
lumber of products with errors: 0		
A LAD Wass from One on Date Ob ash		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measurements	-	ny problems when set.
.oss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 16	to be expected.	
roduct S_OFFL_SIR_GOP_1B_20170519T003619_20170519T004139_B001	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T010449_20170519T011941_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T020735_20170519T020957_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T021507_20170519T022206_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T053021_20170519T053919_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170519T072736_20170519T072819_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T102336_20170519T102539_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T120648_20170519T121403_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T134914_20170519T135327_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T135540_20170519T135719_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T140254_20170519T140351_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T140351_20170519T140954_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T170553_20170519T170724_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T170749_20170519T171304_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170519T220126_20170519T220307_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170519T234519_20170519T235100_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		
	prouro it consists of both on VML booder file ()	HDD) and a product file (DDI.)
Each product, retrieved and unpacked from the science server, is checked to e		
5.2 L2 Product Header Analysis		
or all 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.
lumber of products with errors: 0		
5.3 L2 Auxiliary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
Vind Model File Usage: This file is currently not included in all L2 products.		· · · · · · · · · · · · · · · · · · ·
lumber of products with errors: 0		
412 Auviliany Correction Error Check		
5.4 L2 Auxiliary Correction Error Check		
For all products, the auxiliary corrections within the Geophysical Group are che		o surface type. All common flaos are summarised in the list below.
Surrently, there are two common auxiliary correction errors raised in the		
	om this test.	
bllowed by a table highlighting any additional issues which may arise fr		
bllowed by a table highlighting any additional issues which may arise fr ea State Bias Error: The error value is currently set for products over land a litimetric Wind Speed Error: The error value is currently set for products over a state bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias bias over the error value is currently set for products over a state bias bias bias bias over the error value is currently set for products over a state bias bias bias bias bias bias bias bias	nd sea ice, but this is to be expected.	
bllowed by a table highlighting any additional issues which may arise fr ea State Bias Error: The error value is currently set for products over land a litimetric Wind Speed Error: The error value is currently set for products over a state bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias over the error value is currently set for products over a state bias bias bias over the error value is currently set for products over a state bias bias bias bias over the error value is currently set for products over a state bias bias bias bias bias bias bias bias	nd sea ice, but this is to be expected.	
billowed by a table highlighting any additional issues which may arise fr iea 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 lumber of products with errors: 17	nd sea ice, but this is to be expected.	Description
billowed by a table highlighting any additional issues which may arise fr area 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 lumber of products with errors: 17 roduct	nd sea ice, but this is to be expected. er land and sea ice, but this is to be expected.	
ollowed by a table highlighting any additional issues which may arise fr 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 lands Number of products with errors: 17 Product 17 CS_OFFL_SIR_GOP_2_20170519T001148_20170519T001339_B001	nd sea ice, but this is to be expected. er land and sea ice, but this is to be expected.	There is an error with the Total Geocentric Ocean Tide height (solution 2
ollowed by a table highlighting any additional issues which may arise fr 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 Number of products with errors: 17 Product 25_OFFL_SIR_GOP_2_20170519T001148_20170519T001339_B001 CS_OFFL_SIR_GOP_2_20170519T005317_20170519T010247_B001	nd 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)	There is an error with the Total Geocentric Ocean Tide height (solution : FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution : FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution : FES) and the Non-equilibrium Long Period Ocean Tide height for one or
Currently, there are two common auxiliary correction errors raised in 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 sea State Bias Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently set for products over land a fultimetric Wind Speed Error: The error value is currently s	nd 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), Non	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) and the Non-equilibrium Long Period Ocean Tide height for one or more records

Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2__20170519T021507_20170519T022206_B001

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

CS_OFFL_SIR_GOP_2_20170519T035329_20170519T040152_B001 Total Geocentric Ocean Tide (FES), Nor- Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution 2: FS) and the Non-equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170519T040153_20170519T040144_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 CS_OFFL_SIR_GOP_2_20170519T055112_20170519T061816_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 CS_OFFL_SIR_GOP_2_20170519T071915_20170519T072051_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 CS_OFFL_SIR_GOP_2_20170519T072736_20170519T072819_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 CS_OFFL_SIR_GOP_2_20170519T113029_20170519T114746_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 CS_OFFL_SIR_GOP_2_20170519T13026_20170519T13039_B001	CS_OFFL_SIR_GOP_220170519T033626_20170519T034732_B001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	more records
CS_OFFL_SIR_GOP_2_20170519T040153_20170519T040444_B001 India Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (GOT) CS_OFFL_SIR_GOP_2_20170519T123262_0170519T123839_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (GOT) CS_OFFL_SIR_GOP_2_20170519T140254_20170519T140351_B001 Total Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES),	CS_OFFL_SIR_GOP_220170519T035329_20170519T040152_B001		FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170519T055112_20170519T061816_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_GOP_2_20170519T071915_20170519T072051_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 Mon-equilibrium Long Period Ocean Tide more records CS_OFFL_SIR_GOP_2_20170519T072736_20170519T072819_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 Mon-equilibrium Long Period Ocean Tide FES) and the Mon-equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170519T113029_20170519T114746_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 Mon-equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170519T123626_20170519T123839_B001 Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_GOP_2_20170519T153810_20170519T154021_B001 Total Geocentric Ocean Tide (GOT), 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) for one or more records CS_OFFL_SIR_GOP_2_20170519T153810_20170519T154021_	CS_OFFL_SIR_GOP_220170519T040153_20170519T040444_B001		FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170519T071915_20170519T072051_B001 Total Geocentric Ocean Tide (FES), 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 (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 (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 (solution 1: Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 1: Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equi	CS_OFFL_SIR_GOP_220170519T055112_20170519T061816_B001		FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_201705191072/36_201705191072819_B001 Equilibrium Long Period Ocean Tide FES) and the Mean Sea Surface height for one or more records CS_OFFL_SIR_GOP_2_20170519T113029_20170519T114746_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), CS_OFFL_SIR_GOP_2_20170519T140254_20170519T140351_B001 Total Geocentric Ocean Tide (GOT) 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_2_20170519T140254_20170519T140351_B001 Total Geocentric Ocean Tide (GOT), 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_2_20170519T153810_20170519T183506_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height for one or more records CS_OFFL_SIR_GOP_2_20170519T183516_20170519T183506_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period	CS_OFFL_SIR_GOP_2_20170519T071915_20170519T072051_B001		FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170519T113029_20170519T114746_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT) Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_GOP_2_20170519T140254_20170519T140351_B001 Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_GOP_2_20170519T153810_20170519T183506_B001 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 CS_OFFL_SIR_GOP_2_20170519T183506_B001 Total Geocentric Ocean Tide (FES), 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 <	CS_OFFL_SIR_GOP_220170519T072736_20170519T072819_B001		
CS_OFFL_SIR_GOP_2_20170519T123626_20170519T123839_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean CS_OFFL_SIR_GOP_2_20170519T140254_20170519T140351_B001 Total Geocentric Ocean Tide (GOT), There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_GOP_2_20170519T153810_20170519T154021_B001 Total Geocentric Ocean Tide (GOT), 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 CS_OFFL_SIR_GOP_2_20170519T153810_20170519T154021_B001 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 CS_OFFL_SIR_GOP_2_20170519T180705_20170519T183506_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height for one or more records Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide 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 CS_OFFL_SIR_GOP_2_20170519T235216_20170519T235239_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height for one or more records </td <td>CS_OFFL_SIR_GOP_220170519T113029_20170519T114746_B001</td> <td></td> <td>FES) and the Non-equilibrium Long Period Ocean Tide height for one or</td>	CS_OFFL_SIR_GOP_220170519T113029_20170519T114746_B001		FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170519T140234_20170519T140351_B001 Total Geocentric Ocean Tide (GOT) GOT) for one or more records CS_OFFL_SIR_GOP_2_20170519T153810_20170519T154021_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution 1: Tide height for one or more records CS_OFFL_SIR_GOP_2_20170519T180705_20170519T183506_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170519T180705_20170519T183506_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170519T235116_20170519T235239_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 CS_OFFL_SIR_GOP_2_20170519T235116_20170519T235239_B001 Total Geocentric Ocean Tide (FES), Non-Fer is an error with the Total Geocentric Ocean Tide height for one or more records	CS_OFFL_SIR_GOP_220170519T123626_20170519T123839_B001	Total Geocentric Ocean Tide (FES), Non	-GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean
CS_OFFL_SIR_GOP_2_20170519T153810_20170519T154021_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_GOP_2_20170519T180705_20170519T183506_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_20170519T180705_20170519T183506_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 (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 (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 CS_OFFL_SIR_GOP_2_20170519T235116_20170519T235239_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height for one or more records	CS_OFFL_SIR_GOP_220170519T140254_20170519T140351_B001	Total Geocentric Ocean Tide (GOT)	
CS_OFFL_SIR_GOP_2_20170519T180705_20170519T183506_B001 CS_OFFL_SIR_GOP_2_20170519T235116_20170519T235239_B001 CS_OFFL_SIR_GOP_2_20170519T235116_20170519T235239_B001 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 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	CS_OFFL_SIR_GOP_220170519T153810_20170519T154021_B001	Total Geocentric Ocean Tide (FES), Non	-GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean
CS_OFFL_SIR_GOP_2_20170519T235116_20170519T235239_B001 Intel (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide height for one or	CS_OFFL_SIR_GOP_220170519T180705_20170519T183506_B001		FES) and the Non-equilibrium Long Period Ocean Tide height for one or
	CS_OFFL_SIR_GOP_220170519T235116_20170519T235239_B001		FES) and the Non-equilibrium Long Period Ocean Tide height for one or

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. 31

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170519T012216_20170519T012710_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T012715_20170519T012722_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T012722_20170519T012728_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T012746_20170519T012903_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T030157_20170519T030638_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T030644_20170519T030653_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T030700_20170519T030825_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T044134_20170519T044538_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T044542_20170519T044552_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T044558_20170519T044923_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T062010_20170519T062451_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T062456_20170519T062827_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T075956_20170519T080518_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T093928_20170519T094417_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T112129_20170519T112322_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T112642_20170519T112741_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T130018_20170519T130236_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T130313_20170519T130733_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T143808_20170519T144639_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T161715_20170519T161908_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T162002_20170519T162445_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T175644_20170519T175701_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T175921_20170519T180516_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T193828_20170519T194347_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220170519T211716_20170519T211830_B001	Lice Rande Averading Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T211830_20170519T211837_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T211838_20170519T212243_B001	Lice Rande Averading Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T225219_20170519T225728_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T225741_20170519T225748_B001	lice Rande Averading Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T225748_20170519T230046_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T234054_20170519T234421_B001	Lice Rande Averading 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.

Number of products with errors: 27

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170519T012722_20170519T012728_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170519T012746_20170519T012903_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T030157_20170519T030638_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T030644_20170519T030653_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T030700_20170519T030825_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T044134_20170519T044538_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T044558_20170519T044923_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T062010_20170519T062451_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T062456_20170519T062827_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T075956_20170519T080518_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T093928_20170519T094417_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T112129_20170519T112322_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T112642_20170519T112741_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T130018_20170519T130236_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T130313_20170519T130733_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T143808_20170519T144639_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T161715_20170519T161908_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T162002_20170519T162445_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T175644_20170519T175701_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T175921_20170519T180516_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T193828_20170519T194347_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T211716_20170519T211830_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T211838_20170519T212243_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T225219_20170519T225728_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T225741_20170519T225748_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T225748_20170519T230046_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170519T234054_20170519T234421_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: 158

6. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOP_1B	268	268	268	0	0
SIR_GOP_2	266	266	266	0	0
6.1 QCC Errors					
Number of products with QCC	errors:	D			
6.2 QCC Warnings					
Number of QCC reports with wa	arnings	D			
6.3 Missing QCC Repo	orts				
Number of products with missi	ng QCC reports:	0			