

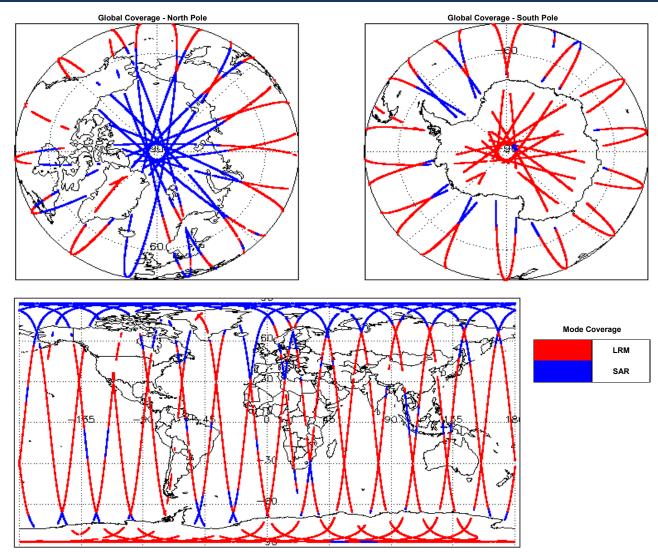
IDEAS+ Daily Report for GOP data:

<u>26/02/2017</u>

eport Production Date:	30-Mar-2017	Check	Status	
report i roudetion Date.		Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	Crue Cat Oscar Presses	Server check: calval-pds.cryosat.esa.int	Nominal	
	CryoSat Ocean Processor	Product Software Check	Nominal	
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data	Product Format Check	Nominal	
		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	

201002011	None
26-Feb-2017	None
27-Feb-2017	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

4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 60) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag (field 65) for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20170226T003128_20170226T003403_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T015738_20170226T020220_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T021629_20170226T022416_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T040602_20170226T040825_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T042400_20170226T043950_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T054639_20170226T055816_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T081110_20170226T084017_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T085122_20170226T090111_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T121949_20170226T122326_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T152806_20170226T153337_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T202549_20170226T202648_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T202720_20170226T203151_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T234226_20170226T234350_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170226T234512_20170226T235259_B001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Wind Model File Usage: This file is currently not included in all L2 products.

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are two common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected.

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Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

N	lumber	of proe	ducts w	/ith errors:
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Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170226T002259_20170226T002624_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220170226T002819_20170226T003001_B001	For Long Period Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220170226T003128_20170226T003403_B001	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220170226T040122_20170226T040246_B001	For Long Period Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220170226T040602_20170226T040825_B001	For the second the second trace (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220170226T042400_20170226T043950_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220170226T052356_20170226T052545_B001	Fotal Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220170226T070831_20170226T070908_B001	Total Geocentric Ocean Tide (FES), Non-	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_20170226T07858_20170226T10210 Total Geocentric Ocean Tide (FES), Not 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 (FES), Not Equilibrium Long Period Ocean Tide (FES), Not Equilibrium Long Period Ocean Tide (FES), Not Equilibrium Long Period Ocean Tide (FES), Not 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 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 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-equ					
CS_OFFL_SIR_GOP_2_20170226T103655_20170226T104140_B001 India Geocentric Ocean Tide (FES), Nor Period Ocean Tide equilibrium Long Period Ocean Tide equilibrium Long Period Ocean Tide equilibrium Long Period Ocean Tide equilibrium Long Period Ocean Tide et pe	CS_OFFL_SIR_GOP_220170226T071858_201702	26T072001_B001		le (FES), Non-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170226T120721_B001 Iotal Geocentric Ocean Tide (FES), Non- FeS) and the Non-equilibrium Long Period Ocean Tide height (solution 2: Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T121619_20170226T122326_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T121949_20170226T122326_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T123718_20170226T122326_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T123718_20170226T125706_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T135802_20170226T140817_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T152617_20170226T152712_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T1625712_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period 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)	CS_OFFL_SIR_GOP_220170226T103655_2017022	26T104140_B001		de (FES), Non-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170226T121619_20170226T121686_B001 Total Geocentric Ocean Tide (FES), Nor- FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T121949_20170226T122326_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T123718_20170226T125706_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T123718_20170226T125706_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T152617_20170226T152712_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T164617_20170226T152712_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T164617_20170226T165539_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T1717212_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean Tide height (solution 2: CS_OFFL_SIR_GOP_2_20170226T1717212_B001 Total Geocentric Ocean Tide (FES), Nor- There is an error with the Total Geocentric Ocean T	CS_OFFL_SIR_GOP_220170226T120649_2017022	26T120721_B001		de (FES), Non- rean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170226T121949_20170226T122326_B001 Total Geocentric Ocean Tide Period Ocean Tide mere records CS_OFFL_SIR_GOP_2_20170226T123718_20170226T125706_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T123718_20170226T125706_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T135802_20170226T140817_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T152617_20170226T152712_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T152617_20170226T152712_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T164617_20170226T165539_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T1717212_00170226T172124_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T182321_20170226T183129_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T182321_20170226T183129_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T182321_20170226T202532_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170226T202314_20170226T234131_B001	CS_OFFL_SIR_GOP_220170226T121619_2017022	26T121636_B001		De (FES), NON-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
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CS_OFFL_SIR_GOP_2_20170226T132617_20170226T152712_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide FES) for one or more records CS_OFFL_SIR_GOP_2_20170226T152617_20170226T152712_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_20170226T164617_20170226T165539_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_20170226T177121_20170226T172124_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_20170226T183129_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_20170226T202314_20170226T202532_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_20170226T233804_20170226T234131_B001 Total Geocentric Ocean Tide (FES), Non- Fequilibrium Long Period Ocean Tide	CS_OFFL_SIR_GOP_220170226T123718_2017022	26T125706_B001		e (FES), NON-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170226T152617_20170226T152712_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Per	CS_OFFL_SIR_GOP_220170226T135802_2017022	26T140817_B001	Total Geocentric Ocean Tid	Je (FES)	FES) for one or more records
CS_OFFL_SIR_GOP_2_20170226T164617_20170226T165539_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T171721_20170226T172124_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T171721_20170226T172124_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T182321_20170226T183129_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T202314_20170226T202532_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T203304_20170226T202532_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T233804_20170226T234131_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T233804_20170226T234131_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T234512_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T234512_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_GOP_2_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES), Non-	CS_OFFL_SIR_GOP_2_20170226T152617_2017022	26T152712_B001		e (FES), Non- ean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170226T171721_20170226T183129_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_20170226T182321_20170226T183129_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_20170226T202314_20170226T202532_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_20170226T233804_20170226T234131_B001 Total Geocentric Ocean Tide (FES) 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 CS_OFFL_SIR_GOP_2_20170226T233804_20170226T234131_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_2_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Per	CS_OFFL_SIR_GOP_220170226T164617_2017022	26T165539_B001		le (FES), NON-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170226T182321_20170226T183129_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_20170226T202314_20170226T202532_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_20170226T233804_20170226T234131_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_2_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records	CS_OFFL_SIR_GOP_220170226T171721_2017022	26T172124_B001		te (FES), Non-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170226T202314_20170226T202532_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_20170226T233804_20170226T234131_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_2_20170226T234512_20170226T234512_20170226T235259_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) for one or more records	CS_OFFL_SIR_GOP_220170226T182321_2017022	26T183129_B001		e (FES), NON-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_201702261233804_201702261234513_B001 CS_OFFL_SIR_GOP_2_20170226T234512_20170226T235259_B001 Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non- Fauilibrium Long Period Ocean Tide (FES), Non- Fauilibrium Long Period Ocean Tide (FES), Non- 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	CS_OFFL_SIR_GOP_220170226T202314_2017022	26T202532_B001		te (FES), Non-	FES) and the Non-equilibrium Long Period Ocean Tide height for one or
CS_OFFL_SIR_GOP_2_20170226T234512_20170226T235259_B001	CS_OFFL_SIR_GOP_220170226T233804_2017022	26T234131_B001	Total Geocentric Ocean Tid		
	CS_OFFL_SIR_GOP_220170226T234512_2017022	26T235259_B001		te (FES), Non-	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. 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. 31

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170226T012725_20170226T012840_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T012848_20170226T013254_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T030227_20170226T030739_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T030745_20170226T030751_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T030759_20170226T031051_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T035050_20170226T035430_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T044132_20170226T044636_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T044656_20170226T044708_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T044715_20170226T044840_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T062047_20170226T062547_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T062547_20170226T062554_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T062612_20170226T062621_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T062629_20170226T062733_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T080130_20170226T080504_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T080526_20170226T080845_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T093912_20170226T094417_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T094424_20170226T094752_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T111911_20170226T112449_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T112556_20170226T112651_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T125834_20170226T130344_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T144040_20170226T144247_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

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5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 25

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170226T012725_20170226T012840_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T012848_20170226T013254_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T030227_20170226T030739_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T030759_20170226T031051_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T044132_20170226T044636_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T044715_20170226T044840_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T062629_20170226T062733_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T080130_20170226T080504_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T080526_20170226T080845_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T093912_20170226T094417_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T094424_20170226T094752_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T111911_20170226T112449_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T112556_20170226T112651_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T125834_20170226T130344_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T144040_20170226T144247_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T161957_20170226T162155_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T162313_20170226T162657_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T171347_20170226T171510_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T175810_20170226T180559_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T193632_20170226T193846_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T193900_20170226T194451_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T211555_20170226T211711_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T211842_20170226T212306_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170226T225753_20170226T230331_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170226T234512_20170226T235259_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

Number of products with errors:

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.

150

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	271	271	271	0	0
SIR_GOP_2	270	270	270	0	0

6.1 QCC Errors	
Number of products with QCC errors:	0
6.2 QCC Warnings	
Number of QCC reports with warnings	0
6.3 Missing QCC Reports	
Number of products with missing QCC reports:	0