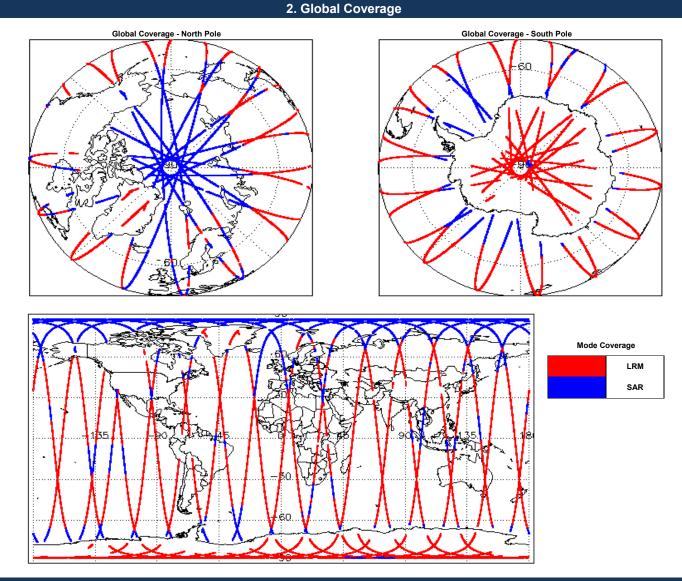


IDEAS+ Daily Report for GOP data:

<u>17/01/2017</u>

Report Production Date:	16-Feb-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 Used:	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	

wission / instru	inent news
16-Jan-2017	None
17-Jan-2017	None
18-Jan-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

CS_OFFL_SIR_GOP_2_20170117T012231_20170117T012318_B001 Iotal 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_20170117T013618_20170117T021049_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium L	4.3 L1B Auxilary Data File Usage Check		
4.4.15 Auxiliary Connection Error Check Cross Cale as nakes a cances one type bill GO for can measurement mount. The Struce of the Step tectors are productions when stat. Auxiliary Connection Error Check Cross Cale as nakes as cances one type bill GO for can measurement mount. The Struce of the Step tectors are productions when as the Step tectors are productions when are productions when and the Step tectors are productions when are productions. Cross Cale as a cancel as a cance	Each product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to che	ck the validity of Auxiliary Data Files is correct.
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Depuise L10 data statutes a measurement conductors large field 12 for each measurement recent. The bit value of the flag indicates any activents when each. As L13 Waveform Group Data Check Synch L10 data indicates away catter policities of the flag indicates any activents when each. Ass L13 Waveform Group Data Check Synch L10 data indicates away catter policities of the flag indicates any activents when each. Ass of the Flag. The flag is darmany of the policities of the flag indicates any activents when each. Synch L10 data indicates away catter policities. Synch L10 data in	Number of products with errors: 0		
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Auge of generation was and a set of the Section account of the Secti	CryoSat L1B data includes a measurement confidence flag (field 12) for each I	measurement record. The bit value of t	this flag indicates any problems when set.
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Deplete 118 data relative a summer of the gale cancer. 10 Preview 10 Sort GRS, CO, CO, Sort ONT/TODES, SORT ONT SORT GRS, SORT ONT CONSTRUCTION SORT GRS, SOR	4.6 L1B Waveform Group Data Check		
see of Eng Time for a consistent work work with it is to be expected. Name 10 Name 10 See of Eng Time for a consistent of the standard of		ent record. The bit value of this flag inc	licates any problems when set.
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Test Products a series of pro-defined bases performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. S.J L2 Auxiliary Data File Usage Check Sale Auxiliary Data File Usage Check Colspan="2">Sale Auxiliary Data File Usage Check Colspan="2">Sale Auxiliary Correction Error Check Sale Busines Correction Error Check Sale State Biss Error: The error value is currently set for products over land and sea ice, but this is to be expected. Numeric Visit State Biss Error: The error value is currently set for products over land and sea ice, but this is to be expected. Numeric Visit State Biss Error: The error value is currently set for products over land and sea ice, but this is to be expected. Numeric Visit State Biss Error: The error value is currently set for products over land and sea ice, but this is to be expected. State Biss Error: The error value is currently set for products over land and sea ice, but this is to be expected. State Biss Error: The error value is currently set for products over land and sea ice, but this is to be expected. State Biss Error: The error value is currently set for products over land an	lumber 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 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: 0 5.4 L2 Auxiliary Correction Error Check For all products, there are two common auxiliary correction errors raised in the Level 2 products which are are spected due to surface type. All common flags are summarised in the list below, followed by a bible highlighting any additional issues which may arise from this tast. Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of products with errors: 17 Product Test Failed Description Disc. Total Geocentric Ocean Tide (FES), Nor EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean Tide height (solution EES) and the Non-equilibrum Long Period Ocean		d SPH in order to identify any inconsist	ancies and/or arrors raised by the ground segment processing chain
The 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 al L2 products. Humber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check To all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Turrently, 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, ollowed by a table highlighting any additional issues which may arise from this test. Bas State Bias From: The error value is currently set for products over land and sea ice, but this is to be expected. Withering Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Withering Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Withering Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Withering CP_2_20170117T012231_20170117T012318_B001 Total Geocentric Ocean Tide (FES). Non- FES) and the Non-equilibrium Long Period Ocean Tide Sp. OFFL_SIR_GOP_2_20170117T068387_20170117T063101_B001 Total Geocentric Ocean Tide (FES). Non- FES is an error with the Total Geocentric Ocean Tide height for one or more records Sp. OFFL_SIR_GOP_2_20170117T068387_20170117T06301_B001 Total Geocentric Ocean Tide (FES). Non- FES is an error with the Total Geocentric Ocean Tide height for one or more records Sp. OFFL_SIR_GOP_2_20170117T068387_20170117T06301_B001 Total Geocentric Ocean Tide (FES). Non- FES is and the Non-equilibrium Long Period Ocean Tide Sp. OFFL_SIR_GOP_2_20170117T068387_20170117T06384_20170117T06384_2001 Total Geocentric Ocean Tide (FES). Non- FES is and the Non-equilibrium Long Period Ocean Tide Sp.			choice and or chois raised by the ground-segment processing chain.
act 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: 0 St. L2 Auxiliary Correction Error Check For all products, the 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, onlowed by a table highlighting any additional issues which may arise from this test. Bas State Bits Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of products with errors: 17 Product Test Failed Total Geocentric Ocean Tide (FES), Non- There is an error with the Total Geocentric Ocean Tide height (solution ES) of near ecords DS_OFFL_SIR_GOP_2_20170117T01231_20170117T012318_B001 Total Geocentric Ocean Tide (FES), Non- Dis_OFFL_SIR_GOP_2_20170117T063818_20170117T063101_B001 Total Geocentric Ocean Tide (FES), Non- S2_OFFL_SIR_GOP_2_20170117T063857_20170117T063010_B001 Total Geocentric Ocean Tide (FES), Non- S2_OFFL_SIR_GOP_2_20170117T063819_20170117T063010_B001 Total Geocentric Ocean Tide (FES), Non- S3_OFFL_SIR_GOP_2_20170117T063842_0170117T067048_B001 Total Geocentric Ocean Tide (FES), Non- S3_OFFL_SIR_GOP_2_20170117T063842_0170117T063942_	5312 Auviliany Data File Usage Check		
Wind Model File Usage: This file is currently not included in all 22 products. State		a determined baseline and also to abo	ek the validity of Auvilian/ Data Files is correct
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S. 4.1.2 Auxiliary Correction Error Check So of a products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). Correction Error Check Sa a state bias Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of products with or products over land and sea ice, but this is to be expected. Number of products with errors: 17 Product Description Total Geocentric Ocean Tide (FES), Nor So OFFL_SIR_GOP_2_20170117T012231_20170117T012318_B001 Total Geocentric Ocean Tide (FES), Nor So OFFL_SIR_GOP_2_20170117T012318_B001 Total Geocentric Ocean Tide (FES), Nor So OFFL_SIR_GOP_2_20170117T012318_B001 Total Geocentric Ocean Tide (FES), Nor So OFFL_SIR_GOP_2_20170117T06304_20170117T021049_B001 Total Geocentric Ocean Tide (FES), Nor So OFFL_SIR_GOP_2_20170117T063243_20170117T06301_B001 Total Geocentric Ocean Tide (FES), Nor So OFFL_SIR_GOP_2_20170117T063243_20170117T070738_B001 Total Geocentric Ocean Tide (FES), Nor So OFFL_SIR_GOP_2_20170117T063243_20170117T070738_B001 Total Geocentric Ocean T			
Total Geocentric Ocean Tide (FES), Not Equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records 32_OFFL_SIR_GOP_2_20170117T063857_20170117T063042_8001 Total Geocentric Ocean Tide (FES), Not Equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean			
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, ollowed by a table highlighting any additional issues which may arise from this test. Bee State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected. Description Withmetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Description Product Test Failed Description S2_OFFL_SIR_GOP_2_20170117T012231_20170117T012318_B001 Total Geocentric Ocean Tide (FES). Non- Equilibrium Long Period Ocean Tide Height (solution Equilibrium Long Period Ocean Tide (FES). There is an error with the Total Geocentric Ocean Tide height (solution more records S2_OFFL_SIR_GOP_2_20170117T013618_20170117T063011_B001 Total Geocentric Ocean Tide (FES). Equilibrium Long Period Ocean Tide (FES). Non- Equilibrium Long Period Ocean Tide Height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution records S2_OFFL_SIR_GOP_2_20170117T063957_20170117T065011_B001 Total Geocentric Ocean Tide (FES). Non- Equilibrium Long Period Ocean Tide (FES). Non- Equilibrium Long Period Ocean Tide Height for one or more records S3_OFFL_SIR_GOP_2_20170117T080243_20170117T069042_B001 Total Geocentric Ocean Tide (FES). Non- Equilibrium Long Period Ocean Tide (FES). Non- ES: OrFL_SIR_GOP_2_20170117T080243_20170117T080942_B001 Total Geocentric Ocean Tide (FES). Non- ES: OrFL_SIR_GOP_2_20170117T138094_20170117T13	5.4 L2 Auxiliary Correction Error Check		
Ollowed by a table highlighting any additional issues which may arise from this test. See State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected. Withmetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Withmetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Verduct Description Product Description S2_OFFL_SIR_GOP_2_20170117T012231_20170117T012318_B001 Total Geocentric Ocean Tide (FES), Norn-ES) and the Non-equilibrium Long Period Ocean Tide height (solution ES) for one or more records DS_OFFL_SIR_GOP_2_20170117T013618_20170117T021049_B001 Total Geocentric Ocean Tide (FES), Norn-ES) and the Non-equilibrium Long Period Ocean Tide height (solution ES) for one or more records S2_OFFL_SIR_GOP_2_20170117T062940_20170117T063101_B001 Total Geocentric Ocean Tide (FES), Norn-Equilibrium Long Period Ocean Tide (FES), Norn-ES, and the Non-equilibrium Long Period Ocean Tide (FES), Norn-ES, and the Non-equilibrium Long Period Ocean Tide height (solution Coean Tide (FES), Norn-ES, and the Non-equilib	or all products, the auxiliary corrections within the Geophysical Group are che	ecked for the default error value (32767	7).
Attimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Author of products with errors: 17 Product Test Failed Description 32_OFFL_SIR_GOP_2_20170117T012231_20170117T012318_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- Equilibr			ed due to surface type. All common flags are summarised in the list below,
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SS_OFFL_SIR_GOP_2_20170117T012231_20170117T012318_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- ES, OFFL_SIR_GOP_2_20170117T130819_20170117T134032_B001 Total Geocentric Ocean Tide (FES), Non- ES, and the Non-equilibrium Long Period Ocean Tide height (solution 2) for one or more records	Product	Test Failed	Description
Instance Instance <td< td=""><td>S_OFFL_SIR_GOP_220170117T012231_20170117T012318_B001</td><td></td><td>Tide FES) and the Non-equilibrium Long Period Ocean Tide height for one of</td></td<>	S_OFFL_SIR_GOP_220170117T012231_20170117T012318_B001		Tide FES) and the Non-equilibrium Long Period Ocean Tide height for one of
SS_OFFL_SIR_GOP_2_20170117T062940_20170117T063101_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height for one or more records SS_OFFL_SIR_GOP_2_20170117T063857_20170117T065011_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height for one or more records SS_OFFL_SIR_GOP_2_20170117T065214_20170117T070738_B001 Mean Sea Surface (2), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution Cean Tide (FES), Non-Equilibrium Long Period Ocean Tide height for one or more records SS_OFFL_SIR_GOP_2_20170117T080243_20170117T080942_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records SS_OFFL_SIR_GOP_2_20170117T130819_20170117T131026_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records SS_OFFL_SIR_GOP_2_20170117T130819_20170117T134032_B001 Mean Sea Surface (2) There is an error with the Total Geocentric Ocean Tide height (solution more records SS_OFFL_SIR_GOP_2_20170117T144514_20170117T144539_B	S_OFFL_SIR_GOP_220170117T013618_20170117T021049_B001	Total Geocentric Ocean Tide (Fl	FES) for one or more records
SS_OFFL_SIR_GOP_2_20170117T063857_20170117T065011_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 SS_OFFL_SIR_GOP_2_20170117T065214_20170117T070738_B001 Mean Sea Surface (2), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide height for one or more records There is an error with the Mean Sea Surface height and the Total Geocentric Ocean Tide height for one or more records SS_OFFL_SIR_GOP_2_20170117T080243_20170117T080942_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 SS_OFFL_SIR_GOP_2_20170117T130819_20170117T131026_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 SS_OFFL_SIR_GOP_2_20170117T130819_20170117T131026_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 SS_OFFL_SIR_GOP_2_20170117T133099_20170117T134032_B001 Mean Sea Surface (2) There is an error with the MSS height (solution 2) for one or more records SS_OFFL_SIR_GOP_2_20170117T144514_20170117T144539_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide height (solution or period Ocean Tide height (solution or period Ocean Tide height (solution or period Ocean Tide height (sol	S_OFFL_SIR_GOP_2_20170117T062940_20170117T063101_B001		ES), NON- FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records
Ocean Tide (FES) Geocentric Ocean Tide height for one or more records CS_OFFL_SIR_GOP_2_20170117T080243_20170117T080942_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170117T130819_20170117T131026_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide CS_OFFL_SIR_GOP_2_20170117T130819_20170117T134032_B001 Mean Sea Surface (2) There is an error with the Total Geocentric Ocean Tide height (solution 2) for one or more records CS_OFFL_SIR_GOP_2_20170117T144514_20170117T144539_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution period Ocean Tide heig	S_OFFL_SIR_GOP_2_20170117T063857_20170117T065011_B001		ES), NON-FES) and the Non-equilibrium Long Period Ocean Tide height for one o
SS_OFFL_SIR_GOP_2_20170117T080243_20170117T080942_B001 Total Geocentric Ocean Tide Equilibrium Long Period Ocean Tide FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records SS_OFFL_SIR_GOP_2_20170117T130819_20170117T131026_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 SS_OFFL_SIR_GOP_2_20170117T133909_20170117T134032_B001 Mean Sea Surface (2) There is an error with the Total Geocentric Ocean Tide height (solution 2) for one or more records SS_OFFL_SIR_GOP_2_20170117T144514_20170117T144539_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) for one or more records	S_OFFL_SIR_GOP_2_20170117T065214_20170117T070738_B001		Geocentric Ocean Tide height for one or more records
SS_OFFL_SIR_GOP_2_20170117T130819_20170117T131026_B001 Total Geocentric Ocean Tide (FES), Noti- FES) and the Non-equilibrium Long Period Ocean Tide more records SS_OFFL_SIR_GOP_2_20170117T133099_20170117T134032_B001 Mean Sea Surface (2) There is an error with the MSS height (solution 2) for one or more records SS_OFFL_SIR_GOP_2_20170117T134032_B001 Total Geocentric Ocean Tide (FES), Non- There is an error with the Total Geocentric Ocean Tide height (solution 2) for one or more records SS_OFFL_SIR_GOP_2_20170117T144514_20170117T144539_B001 Total Geocentric Ocean Tide (FES), Non- There is an error with the Total Geocentric Ocean Tide height (solution 2) for one or more records	S_OFFL_SIR_GOP_220170117T080243_20170117T080942_B001		ES), NOI1- FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records
Total Geocentric Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide height (solution	CS_OFFL_SIR_GOP_220170117T130819_20170117T131026_B001		ES), NOT-FES) and the Non-equilibrium Long Period Ocean Tide height for one o
S OFEL SIR GOP 2 20170117T144514 20170117T144539 R001 [Total Geocentric Ocean Tide (FES), Non-JEES) and the Non-equilibrium Long Period Ocean Tide height for one of	S_OFFL_SIR_GOP_220170117T133909_20170117T134032_B001	Mean Sea Surface (2)	
Equilibrium Long Period Ocean Tide records		Initial Sea Sunace (2)	There is an error with the MSS height (solution 2) for one or more recor

CS_OFFL_SIR_GOP_220170117T145015_20170117T145201_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_220170117T153751_20170117T161046_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_220170117T161449_20170117T162726_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_220170117T171734_20170117T173514_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220170117T182608_20170117T184045_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_220170117T191218_20170117T191418_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_0FFL_SIR_GOP_220170117T191425_20170117T192340_B001	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_220170117T193426_20170117T193515_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

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_220170117T003737_20170117T004324_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T012507_20170117T013254_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T021642_20170117T022155_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T035500_20170117T035642_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T035649_20170117T040101_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T044247_20170117T044315_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T053016_20170117T053541_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T053547_20170117T053553_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T053553_20170117T053559_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T053559_20170117T053818_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T062135_20170117T062237_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T070943_20170117T071438_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T071445_20170117T071452_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T072254_20170117T072328_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T084914_20170117T085352_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T085355_20170117T085408_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T085414_20170117T085423_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T085429_20170117T085545_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T102921_20170117T103305_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T103312_20170117T103322_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T103327_20170117T103653_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T112703_20170117T112934_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T120726_20170117T121219_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T121226_20170117T121555_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T134722_20170117T135249_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T144514_20170117T144539_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T152646_20170117T153146_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T170858_20170117T171051_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T180258_20170117T180545_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T184753_20170117T185003_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220170117T185050_20170117T185505_B001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T194158_20170117T194240_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T202546_20170117T203406_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T220442_20170117T220642_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T220725_20170117T221229_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T234406_20170117T234449_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T234649_20170117T235250_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.

Number of products with errors: 32

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170117T003737_20170117T004324_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T012507_20170117T013254_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T021642_20170117T022155_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T035500_20170117T035642_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T035649_20170117T040101_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T044247_20170117T044315_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T053016_20170117T053541_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T053553_20170117T053559_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T053559_20170117T053818_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T062135_20170117T062237_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T070943_20170117T071438_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T085355_20170117T085408_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T085414_20170117T085423_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T085429_20170117T085545_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T102921_20170117T103305_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T103312_20170117T103322_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T103327_20170117T103653_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T120726_20170117T121219_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T121226_20170117T121555_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T134722_20170117T135249_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T144514_20170117T144539_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T152646_20170117T153146_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T170858_20170117T171051_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T180258_20170117T180545_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T184753_20170117T185003_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T185050_20170117T185505_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T194158_20170117T194240_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T202546_20170117T203406_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T220442_20170117T220642_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170117T220725_20170117T221229_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T234406_20170117T234449_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170117T234649_20170117T235250_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.

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	284	284	284	0	0
SIR_GOP_2	280	280	280	0	0
6.1 QCC Errors					
Number of products with QCC	Cerrors:)			
6.2 QCC Warnings					
Number of QCC reports with	warnings)			
6.3 Missing QCC Rep	orts				
Number of products with miss	sing OCC reports:	0			