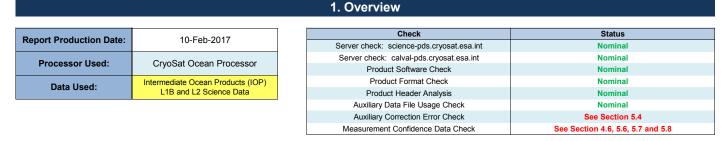


IDEAS+ Daily Report for IOP data:

08/02/2017





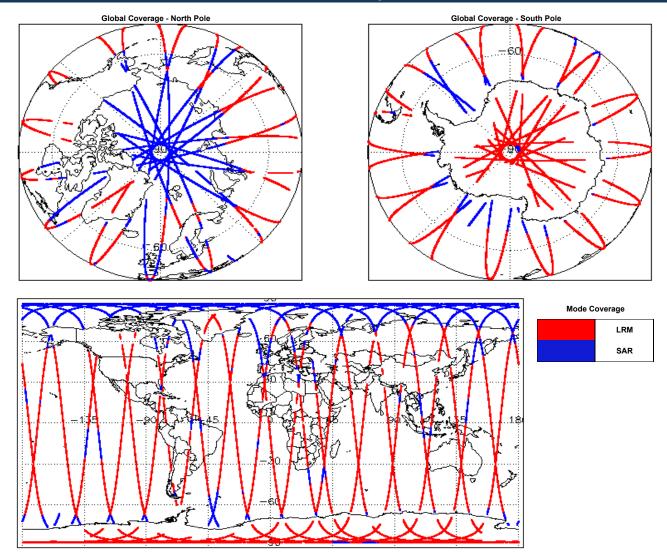
Mission / Instrument News

 07-Feb-2017
 SIRAL unavailability on 7-Feb-2017 from 13:26:13 to 15:21:08 due to a planned orbit manoeuvre.

 08-Feb-2017
 None

09-Feb-2017 Nothing planned

2. Global Coverage



3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. IOP 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 binary product file (.DBL).

Number of products with errors:

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.

4.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to check the va	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 measuren	nent record. The bit value of this flag indicates a	any problems when set.
lumber of products with errors: 0		
1.5 L1B Measurement Confidence Data Check		
ryoSat L1B data includes a measurement confidence flag (field 12) for each umber of products with errors: 0	measurement record. The bit value of this flag	indicates any problems when set.
under of products with errors.		
6 L1B Waveform Group Data Check		
ryoSat L1B data includes a waveform data flag (field 65) for each measurem	nent record. The bit value of this flag indicates a	ny problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
umber of products with errors: 10		
roduct	Test Failed	Description
S_OFFL_SIR_IOP_1B_20170208T022708_20170208T023634_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T024825_20170208T032219_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T054627_20170208T055432_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T071431_20170208T071811_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T073525_20170208T074140_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T140823_20170208T141759_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T142912_20170208T142944_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T151056_20170208T154308_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T160054_20170208T160748_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170208T191941_20170208T192019_B001	Loss of Echo	The tracking echo is missing for one or more records
.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to	DP Level 2 Data Quality Che	
5.1 L2 Product Format Check iach product, retrieved and unpacked from the science server, is checked to		
5.1 L2 Product Format Check iach product, retrieved and unpacked from the science server, is checked to		
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to lumber of products with errors: 0	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check iach product, retrieved and unpacked from the science server, is checked to lumber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 0	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
6.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 6.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 0 6.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect is checked for mis product is checked for missing Data Set Desc	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 .2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 0 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre- rind Model File Usage: This file is currently not included in all L2 products.	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
A L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an umber 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 pr Ind Model File Usage: This file is currently not included in all L2 products. umber of products with errors: 0	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
6.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to tumber of products with errors: 0 6.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an tumber 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 previous file Usage: This file is currently not included in all L2 products. umber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check iach product, retrieved and unpacked from the science server, is checked to lumber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check iach product is checked for missing Data Set Descriptors with respect to a previous of products with errors: 0 5.4 L2 Auxiliary Correction Error Check ior all products, the auxiliary corrections within the Geophysical Group are chemical products.	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check iach product, retrieved and unpacked from the science server, is checked to lumber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an lumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check iach product is checked for missing Data Set Descriptors with respect to a pr Vind Model File Usage: This file is currently not included in all L2 products.	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767).	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
6.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to tumber of products with errors: 0 6.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an tumber of products with errors: 0 6.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a prevent of products with errors: 0 6.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are chertereret.	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). e Level 2 products which are expected due to on this test.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
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A L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 A L2 Product Header Analysis 0 or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 0 A L2 Auxiliary Data File Usage Check 0 ach product is checked for missing Data Set Descriptors with respect to a provided file Usage: This file is currently not included in all L2 products. umber of products with errors: 0 A L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are cher urrently, there are two common auxiliary correction errors raised in the urrently, there are two common auxiliary correction errors raised in the urrently, there are two common auxiliary correction errors raised in the urrently, there are two common auxiliary correction errors raised in the urrently, there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors raised in the urrently there are two common auxiliary correction errors the error value is currently set for products over land a tit metric Wind Speed Error: The error value is currently set for p	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). e Level 2 products which are expected due to om this test. and sea ice, but this is to be expected.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
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.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 .2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 0 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pre- tind Model File Usage: This file is currently not included in all L2 products. umber of products with errors: 0 .4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are cherurently, there are two common auxiliary correction errors raised in the urrently, there are two common auxiliary correction errors raised in the urrently, there are two common auxiliary correction such may arise from a state Bias Error: The error value is currently set for products over land a state material is the retrors: as State Bias Error: The error value is currently set for products over land a state material is with errors: 19 reduct 19	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). Evel 2 products which are expected due to om this test. and sea ice, but this is to be expected. ter land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Non	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Iidity of Auxiliary Data Files is correct. Iidity of Auxiliary Data Files is correct. Description There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one oc
A.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an umber 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- find Model File Usage: This file is currently not included in all L2 products. umber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are cherter under the bilowed by a table highlighting any additional issues which may arise for 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 land a litimetric Wind Speed Error: The error value is Currently set for products over umber of products with errors: 19 roduct S_OFFL_SIR_IOP_2_20170208T005047_20170208T005343_B001	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). e Level 2 products which are expected due to from this test. and sea ice, but this is to be expected. ter land and sea ice, but this is to be expected. Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Iiidity of Auxiliary Data Files is correct. Iiidity of Auxiliary Data Files is correct. Description There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution There is an error with the Total Geocentric Ocean Tide height (solution There is an error with the Total Geocentric Ocean Tide height (solution GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean
5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to humber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH an umber 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 prevent of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are cher products, the auxiliary correction errors raised in the products, the auxiliary correction subjection errors raised in the proflowed by a table highlighting any additional issues which may arise for 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 land a subject.	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). E Level 2 products which are expected due to from this test. and sea ice, but this is to be expected. ter land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (GOT),	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ididity of Auxiliary Data Files is correct. Ididity of Auxiliary Data Files is correct. Description 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 -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
A.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 A.2 L2 Product Header Analysis 0 or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 0 A.3 L2 Auxiliary Data File Usage Check 0 ach product is checked for missing Data Set Descriptors with respect to a profind Model File Usage: This file is currently not included in all L2 products. umber of products, the auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are cherter of a products, the auxiliary corrections within the Geophysical Group are cherter of products with errors: or all products, the auxiliary corrections within the Geophysical Group are cherter of products over land a timetric Wind Speed 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 land a litimetric Wind Speed 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 land a litimetric Wind Speed Error: The error value is currently set for products over land a litimetric Sing LOP_2_20170208T005047_20170208T005343_B001 S_OFFL_SIR_IOP_2_20170208T024615_20170208T024706_B001	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). • Level 2 products which are expected due to om this test. and sea ice, but this is to be expected. • rer land and sea ice, but this is to be expected. • Test Failed • Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide • Total Geocentric Ocean Tide (GOT), • Total Geocentric Ocean Tide (GOT),	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ididity of Auxiliary Data Files is correct. Description Description There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height (solution GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean -GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean -GOT a
A1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 A L2 Product Header Analysis 0 or all products, a series of pre-defined checks are performed on the MPH an umber of products with errors: 0 A L2 Auxiliary Data File Usage Check 0 ach product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product suth errors: 0 A L2 Auxiliary Correction Error Check 0 or all products, the auxiliary corrections within the Geophysical Group are cherter under of products with errors: 0 A L2 Auxiliary Corrections within the Geophysical Group are cherter of products with errors: 0 A L2 Auxiliary Corrections within the Geophysical Group are cherter of products over land a stable highlighting any additional issues which may arise for 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 umber of products with errors: 19 roduct S_OFFL_SIR_IOP_2_20170208T024615_20170208T024706_B001 S_OFFL_SIR_IOP_2_20170208T024706_20170208T024825_B001	ensure it consists of both an XML header file (.i d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). b Level 2 products which are expected due to om this test. and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. for this test. Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ilidity of Auxiliary Data Files is correct. Ilidity of Auxiliary Data Files is correct. Description 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 more records There is an error with the Total Geocentric Ocean Tide height (solution - GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution - GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution - GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution - GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution - GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution

 CS_OFFL_SIR_IOP_2_201702081061355_201702081062419_B001
 Equilibrium Long Period Ocean Tide
 FLS) and the Non-equilibrium Long Period Ocean Tide

 CS_OFFL_SIR_IOP_2_20170208T071934_20170208T072643_B001
 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide
 FLS) and the Non-equilibrium Long Period Ocean Tide

 FES) and the Non-equilibrium Long Period Ocean Tide
 FLS) and the Non-equilibrium Long Period Ocean Tide
 FLS) and the Non-equilibrium Long Period Ocean Tide

CS_OFFL_SIR_IOP_2__20170208T073525_20170208T074140_B001

Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide 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_IOP_220170208T092248_20170208T092346_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_IOP_220170208T110124_20170208T110304_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_IOP_220170208T111042_20170208T113001_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170208T140618_20170208T140744_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_IOP_220170208T140744_20170208T140822_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_IOP_220170208T142944_20170208T142957_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170208T151056_20170208T154308_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170208T165025_20170208T171929_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_IOP_220170208T172803_20170208T173433_B001	Fouilibrium 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_IOP_220170208T184909_20170208T185335_B001	Fouilibrium 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_IOP_220170208T190802_20170208T190918_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

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. 29

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170208T001040_20170208T001610_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T014942_20170208T015045_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T015047_20170208T015456_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T032517_20170208T032942_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T033001_20170208T033355_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T041337_20170208T041627_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T050323_20170208T050840_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T050847_20170208T050853_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T050853_20170208T050859_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T050859_20170208T051055_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T064752_20170208T064758_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T064815_20170208T064929_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T082309_20170208T082708_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T082714_20170208T082723_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T082729_20170208T082944_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T100056_20170208T100621_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T100628_20170208T100953_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T114057_20170208T114859_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T132032_20170208T132547_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T150202_20170208T150448_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T164200_20170208T164355_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T164609_20170208T164852_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T173552_20170208T173943_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T182038_20170208T182312_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T182334_20170208T182801_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T195823_20170208T200713_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220170208T213752_20170208T213930_B001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T214039_20170208T214503_B001	lice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T231953_20170208T232542_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. 23

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170208T001040_20170208T001610_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T014942_20170208T015045_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T015047_20170208T015456_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T032517_20170208T032942_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T033001_20170208T033355_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T050859_20170208T051055_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T064815_20170208T064929_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T082309_20170208T082708_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T082729_20170208T082944_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T100056_20170208T100621_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T100628_20170208T100953_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T114057_20170208T114859_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T132032_20170208T132547_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T150202_20170208T150448_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T164200_20170208T164355_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T164609_20170208T164852_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T173552_20170208T173943_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T182038_20170208T182312_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T182334_20170208T182801_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T195823_20170208T200713_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T213752_20170208T213930_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T214039_20170208T214503_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170208T231953_20170208T232542_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
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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. 148

Number of products with errors:

6. IOP 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	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_IOP_1B	254	254	254	0	0
SIR_IOP_2	251	251	251	0	0
6.1 QCC Errors					
Number of QCC reports with errors:	0				
6.2 QCC Warnings					
Number of QCC reports with warning	gs 0				
6.3 Missing QCC Reports					
Number of products with missing Q0	CC reports: 0				