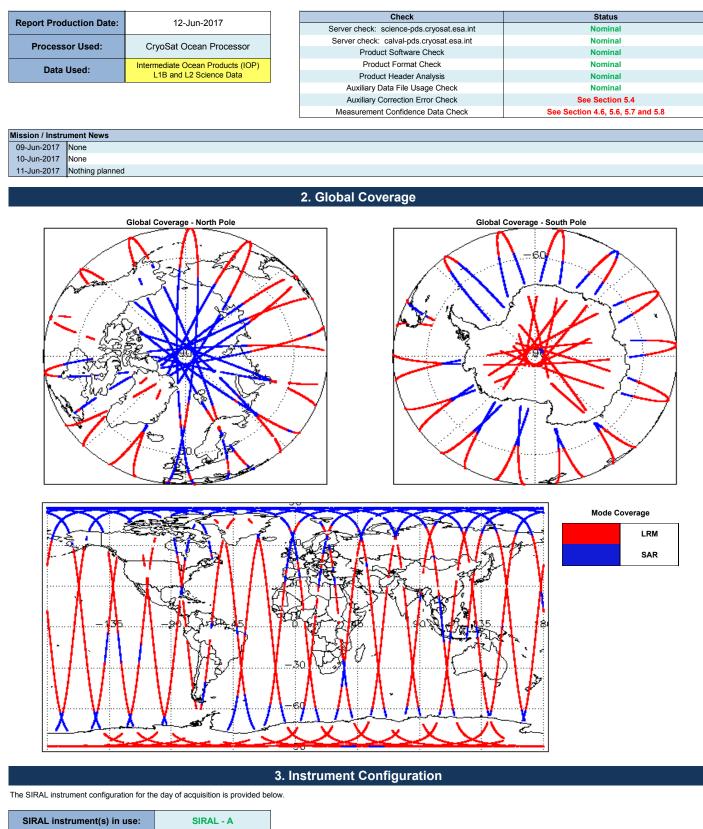


IDEAS+ Daily Report for IOP data:

10/06/2017





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 pro-	e-determined baseline and also to check	the validity 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 indic	cates any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each	measurement record. The bit value of thi	s flag indicates any problems when set
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measurem	-	ates any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 12	s to be expected.	
Product CS_OFFL_SIR_IOP_1B_20170610T000506_20170610T000701_B001	Loss of Echo	Description The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T003652_20170610T003832_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T013205_20170610T013326_B001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOP 1B 20170610T014745 20170610T015306 B001	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T064222_20170610T065155_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T065516_20170610T065741_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T071423_20170610T072855_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T082054_20170610T083026_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T083236_20170610T084001_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T114026_20170610T114706_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170610T194701_20170610T194825_B001	Loss of Echo	The tracking echo is missing for one or more records
	1	
5.1 L2 Product Format Check	DP Level 2 Data Quality	
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0		
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0		
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the MPH and the series of pre-defined checks are performed on the series of performed on the series of performed on the series of perfor	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a product 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 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 is checked for missing Data Set Descriptors with respect is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptor is checked for missing Data	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
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5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an 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-Wind Model File Usage: This file is currently not included in all L2 products.	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an 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 prowind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0	ensure it consists of both an XML header	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an 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-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, the auxiliary corrections within the Geophysical Group are chemick	ensure it consists of both an XML header d SPH in order to identify any inconsister e-determined baseline and also to check ecked for the default error value (32767).	file (.HDR) and a binary product file (.DBL).
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5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a prewind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are chefollowed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land a set	ensure it consists of both an XML header d SPH in order to identify any inconsister e-determined baseline and also to check ecked for the default error value (32767). b Level 2 products which are expected rom this test. and sea ice, but this is to be expected.	file (.HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an 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-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, the auxiliary corrections within the Geophysical Group are che Currently, there are two common auxiliary correction errors raised in the Gollowed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a	ensure it consists of both an XML header d SPH in order to identify any inconsister e-determined baseline and also to check ecked for the default error value (32767). b Level 2 products which are expected rom this test. and sea ice, but this is to be expected.	file (.HDR) and a binary product file (.DBL).
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5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an 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 prevent of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che Currently, there are two common auxiliary correction errors raised in the Collowed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products over land a Attimetric Wind Speed Error Speed	ensure it consists of both an XML header d SPH in order to identify any inconsister e-determined baseline and also to check lecked for the default error value (32767). a Level 2 products which are expected rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected.	file (.HDR) and a binary product file (.DBL). Incies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. due to surface type. All common flags are summarised in the list below, exted. Description There is an error with the Total Geocentric Ocean Tide height (solution of the orgent). Non-
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an 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 prowing Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Error: The error value is currently set for products over land a Chimetric Wind Speed Erro	ensure it consists of both an XML header Id SPH in order to identify any inconsister e-determined baseline and also to check recked for the default error value (32767). a Level 2 products which are expected rom this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES	File (.HDR) and a binary product file (.DBL). ncies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. the validity of Auxiliary Data Files is correct. due to surface type. All common flags are summarised in the list below, acted. bescription 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 for one o more records
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an 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 prowind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Caro of products with errors: 23 Product CS_OFFL_SIR_IOP_2_20170610T000118_20170610T000333_B001 CS_OFFL_SIR_IOP_2_20170610T000916_20170610T001608_B001	ensure it consists of both an XML header d SPH in order to identify any inconsister e-determined baseline and also to check tecked for the default error value (32767). a Level 2 products which are expected from this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. Total Geocentric Ocean Tide (FES Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES	File (.HDR) and a binary product file (.DBL). Incies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. the validity of Auxiliary Data Files is correct. due to surface type. All common flags are summarised in the list below, acted. b), Non-There is an error with the Total Geocentric Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solution 1) FES and the Non-equilibrium Long Period Ocean Tide height (solu
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5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a prewind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: 23 Product 23 Product 23 Cs_OFFL_SIR_IOP_2_20170610T000916_20170610T000333_B001 25_OFFL_SIR_IOP_2_20170610T000916_20170610T001608_B001 Cs_OFFL_SIR_IOP_2_20170610T000916_20170610T0012236_B001 25_OFFL_SIR_IOP_2_20170610T011254_20170610T012236_B001	ensure it consists of both an XML header d SPH in order to identify any inconsister e-determined baseline and also to check e-determined baseline and also to check becked for the default error value (32767). a Level 2 products which are expected from this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. Total Geocentric Ocean Tide (FES Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES Equilibrium Long Period Ocean Tide	file (.HDR) and a binary product file (.DBL). ncies and/or errors raised by the ground-segment processing chain. the validity of Auxiliary Data Files is correct. the validity of Auxiliary Data Files is correct. due to surface type. All common flags are summarised in the list below, acted. bescription There is an error with the Total Geocentric Ocean Tide height (solution 1 more records p. Non-FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2 more records There is an error with the Total Geocentric Ocean Tide height (solution 2 more records) There is an error with the Total Geocentric Ocean Tide height (solution 2 more records) There is an error with the Total Geocentric Ocean Tide height (solution 2 more records) There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 3 more records) There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 3 FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 3 FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 3 FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 3 FES) for one or more records <t< td=""></t<>
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CS_OFFL_SIR_IOP_220170610T065516_20170610T065741_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_IOP_220170610T071422_20170610T072855_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170610T083236_20170610T084001_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_IOP_220170610T092442_20170610T100050_B001	Foulibrium 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_220170610T100051_20170610T100201_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_220170610T110345_20170610T111851_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_220170610T111851_20170610T112054_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_220170610T112054_20170610T113036_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOP_220170610T115250_20170610T120931_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_220170610T132026_20170610T132630_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_IOP_220170610T133202_20170610T133423_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_220170610T181325_20170610T181413_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220170610T183109_20170610T190441_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_220170610T194024_20170610T194700_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_IOP_220170610T194701_20170610T194825_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_220170610T225401_20170610T225525_B001	Fouli 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. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170610T010022_20170610T010028_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T010028_20170610T010040_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T010101_20170610T010203_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T023555_20170610T023938_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T023945_20170610T023953_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T023959_20170610T024256_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T041337_20170610T041852_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T041858_20170610T042225_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T055337_20170610T055925_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T055937_20170610T060127_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T073306_20170610T073818_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T091456_20170610T091719_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T105431_20170610T105627_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T105810_20170610T110130_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T123258_20170610T123549_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T123600_20170610T124031_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T141100_20170610T141934_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T155026_20170610T155154_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220170610T155313_20170610T155731_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T173225_20170610T173811_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T191130_20170610T191642_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T204940_20170610T205129_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T205130_20170610T205136_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T205136_20170610T205550_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T213715_20170610T213800_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T222505_20170610T223028_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T223028_20170610T223034_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T223041_20170610T223047_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T223047_20170610T223301_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170610T231632_20170610T231712_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. 24

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170610T010028_20170610T010040_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T010101_20170610T010203_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T023555_20170610T023938_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T023959_20170610T024256_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T041337_20170610T041852_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T041858_20170610T042225_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T055337_20170610T055925_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T055937_20170610T060127_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T073306_20170610T073818_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T091456_20170610T091719_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T105431_20170610T105627_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T105810_20170610T110130_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T123258_20170610T123549_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T123600_20170610T124031_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T141100_20170610T141934_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T155026_20170610T155154_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T155313_20170610T155731_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T173225_20170610T173811_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T204940_20170610T205129_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T205136_20170610T205550_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T213715_20170610T213800_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20170610T223028_20170610T223034_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T223047_20170610T223301_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170610T231632_20170610T231712_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. 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	238	238	238	0	0
SIR_IOP_2	238	238	238	0	0
6.1 QCC Errors					
Number of QCC reports with error	ors: ()			
6.2 QCC Warnings					
Number of QCC reports with wa	rnings ()			
6.3 Missing QCC Repor	ts				
Number of products with missin	g QCC reports:)			