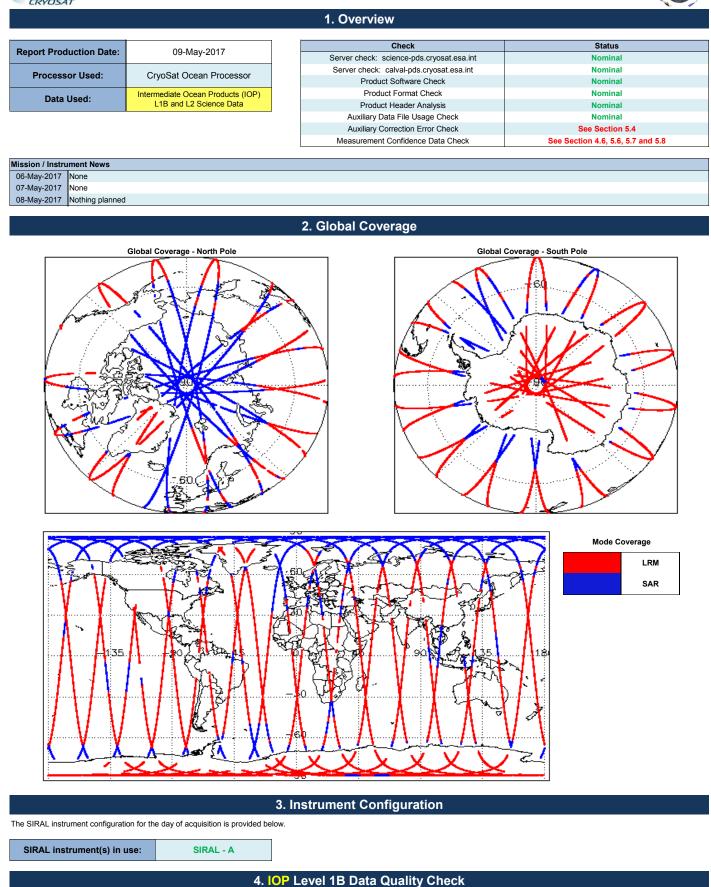


IDEAS+ Daily Report for IOP data:

07/05/2017





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	alidity 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.
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 this 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	nent record. The bit value of this flag indicates a	iny problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
Number of products with errors: 8		
	Test Failed	Description
S_OFFL_SIR_IOP_1B_20170507T010557_20170507T011723_B001 S_OFFL_SIR_IOP_1B_20170507T011926_20170507T013457_B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170507T014620_20170507T014849_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170507T022332_20170507T022423_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_201705071022322_201705071022425_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20170507T112957_20170507T113334_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20170507T114357_20170507T114510_B001	Loss of Echo	
CS_OFFL_SIR_IOP_1B_20170507T222105_20170507T222849_B001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
5_0112_0112_01_15_201100011222105_201103011222049_5001		
5. 10	OP Level 2 Data Quality Che	eck
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to		
NALA PRODUCT READER ADAIVSIS		
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
For all products, a series of pre-defined checks are performed on the MPH an Number of products with errors: 0	d SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
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	d SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
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		
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 pr Wind Model File Usage: This file is currently not included in all L2 products.		
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 pr Nind Model File Usage: This file is currently not included in all L2 products.		
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 pr Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0		
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 pr Wind Model File Usage: This file is currently not included in all L2 products.	e-determined baseline and also to check the va	
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 pr 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 ch Currently, there are two common auxiliary correction errors raised in the	e-determined baseline and also to check the va necked for the default error value (32767).	alidity of Auxiliary Data Files is correct.
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 pr 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 ch Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise fr	e-determined baseline and also to check the va lecked for the default error value (32767). a Level 2 products which are expected due to rom this test.	alidity of Auxiliary Data Files is correct.
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 pr Vind 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	e-determined baseline and also to check the va becked for the default error value (32767). be Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected.	alidity of Auxiliary Data Files is correct.
For all products, a series of pre-defined checks are performed on the MPH an Aumber 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 pr Vind Model File Usage: This file is currently not included in all L2 products. Aumber 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 ollowed 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 Unimetric Wind Speed Error: The error value is currently set for products over land a	e-determined baseline and also to check the va becked for the default error value (32767). be Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected.	alidity of Auxiliary Data Files is correct.
For all products, a series of pre-defined checks are performed on the MPH and Aumber 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 provide the Usage: This file is currently not included in all L2 products. Aumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked 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 Autimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is currently set for products over land a Sutimetric Wind Speed Error: The error value is	e-determined baseline and also to check the va becked for the default error value (32767). be Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected.	alidity of Auxiliary Data Files is correct. o surface type. All common flags are summarised in the list below, Description
For all products, a series of pre-defined checks are performed on the MPH an Aumber 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 pr Wind Model File Usage: This file is currently not included in all L2 products. Aumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are checked 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 Chimetric Wind Speed Errors: 14 Product	e-determined baseline and also to check the value (32767). e Level 2 products which are expected due to the toom 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), Nor	alidity of Auxiliary Data Files is correct. o surface type. All common flags are summarised in the list below, Description There is an error with the Total Geocentric Ocean Tide height (solution i FES) and the Non-equilibrium Long Period Ocean Tide height for one o
For all products, a series of pre-defined checks are performed on the MPH an Aumber 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 pr Vind Model File Usage: This file is currently not included in all L2 products. Aumber 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 ollowed 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 Autimetric Wind Speed Error: The error value is currently set for products over Aumber of products with errors: 14 Product CS_OFFL_SIR_IOP_2_20170507T010557_20170507T011723_B001	e-determined baseline and also to check the value (32767). Elecked for the default error value (32767). E Level 2 products which are expected due to the total sea ice, but this is to be expected. And sea ice, but this is to be expected. Test Failed	alidity of Auxiliary Data Files is correct. o surface type. All common flags are summarised in the list below, 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
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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 pr 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 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 Number of products with errors: 14 Product CS_OFFL_SIR_IOP_2_20170507T010557_20170507T013457_B001 CS_OFFL_SIR_IOP_2_20170507T015049_20170507T020315_B001 CS_OFFL_SIR_IOP_2_20170507T0160517_20170507T063301_B001	e-determined baseline and also to check the value backed 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. Ver land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES)	alidity of Auxiliary Data Files is correct.
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 pr 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 ch Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise fr Sea State Bias Error: The error value is currently set for products over land a Autimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: 14 Product CS_OFFL_SIR_IOP_2_20170507T010557_20170507T013457_B001 CS_OFFL_SIR_IOP_2_20170507T015049_20170507T020315_B001 CS_OFFL_SIR_IOP_2_20170507T060517_20170507T063301_B001 CS_OFFL_SIR_IOP_2_20170507T0705057_20170507T073733_B001	e-determined baseline and also to check the value backed 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. Ver land and sea ice, but this is to be expected. Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor	alidity of Auxiliary Data Files is correct.
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 pr 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 ch Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise fr Sea State Bias Error: The error value is currently set for products over land a Attimetric Wind Speed Error: The error value is currently set for products ov Number of products with errors: 14 Product CS_OFFL_SIR_IOP_2_20170507T010557_20170507T013457_B001 CS_OFFL_SIR_IOP_2_20170507T015049_20170507T013457_B001 CS_OFFL_SIR_IOP_2_20170507T015049_20170507T063301_B001 CS_OFFL_SIR_IOP_2_20170507T073523_20170507T073733_B001 CS_OFFL_SIR_IOP_2_20170507T073523_20170507T074558_B001	e-determined baseline and also to check the value lecked for the default error value (32767). a Level 2 products which are expected due to from this test. and sea ice, but this is to be expected. I the failed Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor	alidity of Auxiliary Data Files is correct.
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 pr 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 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 Number of products with errors: 14 Product CS_OFFL_SIR_IOP_2_20170507T010557_20170507T011723_B001 CS_OFFL_SIR_IOP_2_20170507T015049_20170507T013457_B001 CS_OFFL_SIR_IOP_2_20170507T015049_20170507T020315_B001 CS_OFFL_SIR_IOP_2_20170507T073523_20170507T073733_B001 CS_OFFL_SIR_IOP_2_20170507T073523_20170507T074558_B001 CS_OFFL_SIR_IOP_2_20170507T074411_20170507T074558_B001 CS_OFFL_SIR_IOP_2_20170507T07080622_20170507T0780745_B001	e-determined baseline and also to check the value (32767). b Level 2 products which are expected due to from this test. and sea ice, but this is to be expected. Yer land and sea ice, but this is to be expected. Total Geocentric Ocean Tide (FES) Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nore Equilibrium Long Period Ocean Tide Mean Sea Surface (1) Total Geocentric Ocean Tide (FES)	alidity of Auxiliary Data Files is correct. Description There is an error with the Total Geocentric Ocean Tide height (solution in FES) and the Non-equilibrium Long Period Ocean Tide height (solution in FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution in FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution in FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution in FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution in FES) and the Non-equilibrium Long Period Ocean Tide height (solution in 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 in 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 in FES) and the Non-equilibrium Long Period Ocean Tide height (solution in FES) and the Non-equilibrium Long Period Ocean Tide height (solution in FES) and the Non-equilibrium Long Period Ocean Tide height (solution in 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 in 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 in FES) and the Non-equilibrium Long Period Ocean Tide height (solution in FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution in FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution in FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution in FES) for one or more recor
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CS_OFFL_SIR_IOP_220170507T120709_20170507T121547_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
	Equilibrium Long Period Ocean Tide	HES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220170507T182132_20170507T185052_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_IOP_220170507T220941_20170507T221830_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

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. 35

Number of products with errors

Product Test Failed Description The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T000255_20170507T000300_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T000300 20170507T000307 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T000307_20170507T000313_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more Ice Range Averaging Status CS_OFFL_SIR_IOP_2__20170507T000314_20170507T000538_B001 records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T004829 20170507T004955 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T013655_20170507T014151_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more Ice Range Averaging Status CS OFFL SIR IOP 2 20170507T014206 20170507T014212 B001 records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T014212_20170507T014223_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T031622 20170507T032104 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T032105_20170507T032109_B001 Ice Range Averaging Status record The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T032144_20170507T032256_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T045640_20170507T050018_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T050026 20170507T050035 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T050041_20170507T050408_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T063437_20170507T063932_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T063940 20170507T064309 B001 Ice Range Averaging Status ecords The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T081435_20170507T082003_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T095355 20170507T095900 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T113611 20170507T113804 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T123013_20170507T123249_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T131508 20170507T131715 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T131808 20170507T132217 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T140911_20170507T141000_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T145304_20170507T150119_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T163155 20170507T163357 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T163436_20170507T163950_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP_2__20170507T181117_20170507T181208_B001 Ice Range Averaging Status record The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T181402_20170507T182006_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T195310_20170507T195837_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T213314 20170507T213318 B001 Ice Range Averaging Status ecords The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T213318_20170507T213727_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T230731_20170507T231211_B001 Ice Range Averaging Status record The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T231218 20170507T231225 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20170507T231225 20170507T231231 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS_OFFL_SIR_IOP_2__20170507T231231_20170507T231612_B001 Ice Range Averaging Status records

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. 28

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220170507T000255_20170507T000300_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T000300_20170507T000307_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T000307_20170507T000313_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T000314_20170507T000538_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T004829_20170507T004955_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T031622_20170507T032104_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T032144_20170507T032256_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T045640_20170507T050018_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T050026_20170507T050035_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T050041_20170507T050408_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T063437_20170507T063932_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T063940_20170507T064309_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T081435_20170507T082003_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T095355_20170507T095900_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T113611_20170507T113804_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T123013_20170507T123249_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T131508_20170507T131715_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T131808_20170507T132217_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T140911_20170507T141000_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T145304_20170507T150119_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T163155_20170507T163357_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T163436_20170507T163950_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T181117_20170507T181208_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T181402_20170507T182006_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T195310_20170507T195837_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T213318_20170507T213727_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T230731_20170507T231211_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220170507T231231_20170507T231612_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 147

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	257	257	257	0	0
SIR_IOP_2	255	255	255	0	0
6.1 QCC Errors					
lumber of QCC reports with errors): 	0			
5.2 QCC Warnings					
lumber of QCC reports with warni	ngs	D			
6.3 Missing QCC Reports	5				
lumber of products with missing (QCC reports:	0			