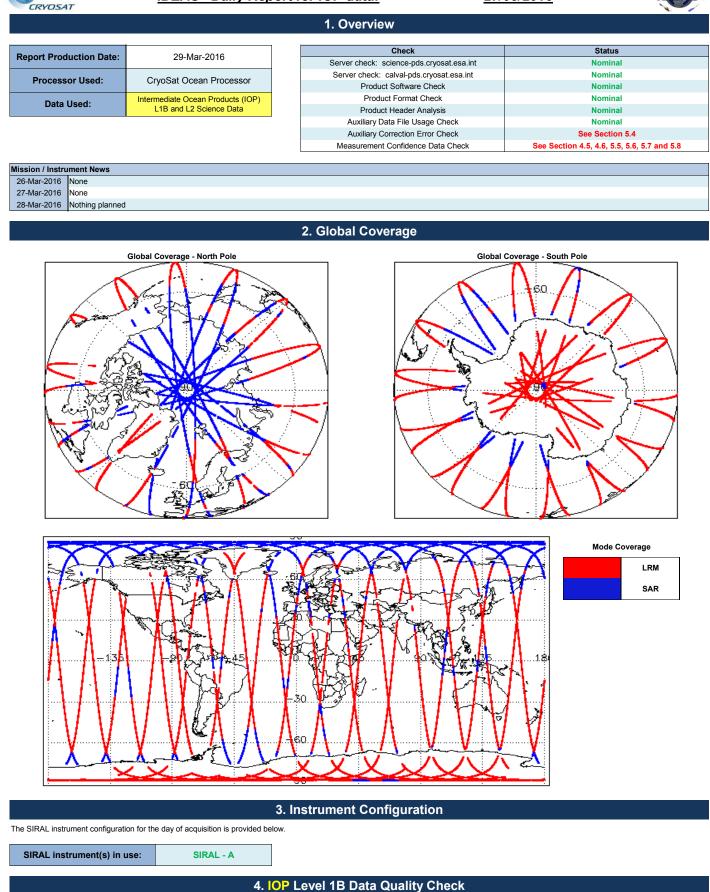


IDEAS+ Daily Report for IOP data:

27/03/2016





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: 0

4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check			
Each product is checked for missing Data Set Descriptors with respect to a pr	re-determined baseline and also to ch	neck the validity of Auxiliary Data Files is correct.	
Number of products with errors: 0			
1.4 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag (field 60) for each measurer	ment record. The bit value of this flag	indicates 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 o	of this flag indicates any problems when set.	
Number of products with errors: 1			
Product	Test Failed	Description	
CS_OFFL_SIR_IOP_1B_20160327T123557_20160327T131104_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records	
4.6 L1B Waveform Group Data Check			
CryoSat L1B data includes a waveform data flag (field 65) for each measuren	nent record. The bit value of this flag i	indicates any problems when set.	
.oss of Echo Flag: This flag is currently set for products over land, but this i	s to be expected.		
lumber of products with errors: 12			
Product	Test Failed	Description	
CS_OFFL_SIR_IOP_1B_20160327T004926_20160327T005834_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS OFFL SIR IOP 1B 20160327T014644 20160327T014743 B001	Loss of Echo	The tracking echo is missing for one or more records	

Troduct	reatraileu	Description
CS_OFFL_SIR_IOP_1B_20160327T004926_20160327T005834_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T014644_20160327T014743_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T022619_20160327T023357_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T032707_20160327T040205_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T041623_20160327T041707_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T044109_20160327T044442_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T153205_20160327T153349_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T154020_20160327T154115_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T174519_20160327T180806_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T190225_20160327T190959_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T191114_20160327T191401_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160327T220939_20160327T221137_B001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). 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 SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

Number of products with errors: 13

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160326T235820_20160327T000241_B001	GIM lonospheric Correction	There is an error with the GIM lonospheric correction for one or more records
CS_OFFL_SIR_IOP_220160327T010914_20160327T013517_B001	Lotal Geocentric Ocean Lide (EES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160327T082602_20160327T084242_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_220160327T090319_20160327T091005_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_220160327T093849_20160327T095030_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160327T110719_20160327T111207_B001	Fotal 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_220160327T135920_20160327T140101_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_220160327T210955_20160327T212545_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_220160327T220939_20160327T221137_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_220160327T221317_20160327T221435_B001	For Formation Period Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160327T224651_20160327T224953_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_220160327T231803_20160327T235201_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220160327T235202_20160327T235408_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160327T123557_20160327T131104_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

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. 33

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160326T235820_20160327T000241_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T000247_20160327T000256_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T000302_20160327T000443_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T013632_20160327T014154_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T014201_20160327T014526_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T031622_20160327T032433_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T045601_20160327T050121_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T063702_20160327T064021_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T081733_20160327T081927_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T082209_20160327T082406_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T091126_20160327T091539_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T095617_20160327T095842_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T095911_20160327T100335_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T113402_20160327T114246_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T131322_20160327T131508_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T131609_20160327T132039_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T145525_20160327T150117_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T163431_20160327T163948_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T181311_20160327T181433_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T181433_20160327T181440_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T181440_20160327T181848_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T194810_20160327T195331_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T195337_20160327T195344_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T195344_20160327T195350_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T195350_20160327T195632_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T203612_20160327T204026_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T212727_20160327T213228_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T213235_20160327T213242_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T213242_20160327T213248_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220160327T213307_20160327T213430_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T230641_20160327T231139_B001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T231139_20160327T231146_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160327T231221_20160327T231328_B001		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. 21

Number of products with errors:

CS_OFFL_SIR_IOP_2_20160327T00302_0160327T00443_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T014252_0160327T014526_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T014201_20160327T031632_00160327T032433_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T045001_20160327T031622_00160327T06121_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T045001_20160327T06121_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T045001_20160327T061927_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T081733_20160327T081927_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T091126_20160327T091539_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T091126_20160327T095842_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T1014202_1000327T095842_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T113402_20160327T113426_B001tee Backscatter Averaging StatusThe lee Backscatter Averaging StatusCS_OFFL_SIR_IOP_2_20160327T113402_20160327T113408_B001tee Backscatter Averaging StatusThe lee Backscatter Averagi	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2201603271014532_201603271014154_8001 Ide Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T014201_20160327T032433_8001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T050121_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T06302_20160327T064021_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T06132_20160327T081927_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T08132_20160327T081927_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T08120_20160327T081927_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T09153_20160327T091539_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T095617_20160327T095642_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T095017_20160327T1095842_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOP_2_20160327T195011_20160327T190535_B001 Ice Backscatter Averaging Status Flag has been set for one or more records. CS	CS_OFFL_SIR_IOP_220160327T000302_20160327T000443_B001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOP_2_201603271014220_1603271014226_B001Ice Backscatter Averaging StatusTeeords.CS_OFFL_SIR_IOP_2_20160327T031622_20160327T032433_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T06302_20160327T064021_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T081733_20160327T081927_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T081209_20160327T091927_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T091509_D01Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T091509_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T095911_20160327T095842_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T095911_20160327T1095842_B001Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T11420_20160327T11120160Ice Backscatter Averaging StatusThe loe Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20160327T1131202_D160327T115018_B001Ice Backscatter Averaging Statu	CS_OFFL_SIR_IOP_2_20160327T013632_20160327T014154_B001	Ice Backscatter Averaging Status	
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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. 156

Number of products with errors: