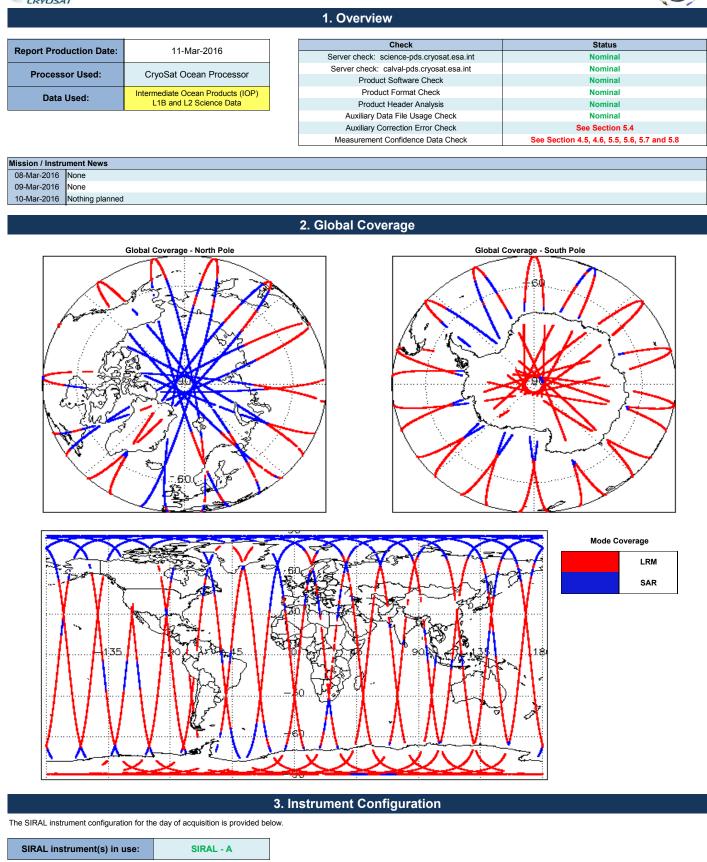


IDEAS+ Daily Report for IOP data:

09/03/2016





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 pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.			
lumber of products with errors: 0			
I.4 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag (field 60) for each measurement 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 of this flag indicates any problems when set.			
Number of products with errors: 1			
Product	Test Failed	Description	
CS_OFFL_SIR_IOP_1B_20160309T212956_20160309T214740_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records	
I.6 L1B Waveform Group Data Check			

CryoSat L1B data includes a waveform data flag (field 65) for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

13

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_1B_20160309T011726_20160309T011911_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T025736_20160309T030025_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T050655_20160309T050945_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T061553_20160309T061619_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T074143_20160309T074409_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T074516_20160309T080704_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T083339_20160309T083657_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T113905_20160309T115401_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T125624_20160309T125846_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T142427_20160309T142534_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T173017_20160309T173356_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T191305_20160309T192151_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOP_1B_20160309T211306_20160309T211804_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:

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).

0

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.

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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:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160308T235355_20160309T000210_B001	GIM Ionospheric Correction	There is an error with the GIM lonospheric correction for one or more records
CS_OFFL_SIR_IOP_220160309T060256_20160309T061442_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_220160309T062043_20160309T062237_B001	Fauilibrium 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_220160309T095441_20160309T095627_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_220160309T191305_20160309T192151_B001	Fauilibrium 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_220160309T212955_20160309T214740_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
	Total Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOP_220160309T225954_20160309T231015_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

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: 1

Product	Test Failed	Description	
CS_OFFL_SIR_IOP_220160309T212955_20160309T214740_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. 35

Number of products with errors:

CS_OFFL_SIR_IOP_2_20160309T001946_20160309T002427_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T002432_20160309T002444_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T002450_20160309T002459_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T02002_20160309T020341_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T020349_20160309T020341_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T020349_20160309T020358_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T020404_20160309T020730_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T02455_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T0304025_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records. CS_OFFL_SIR_IOP_2_20160309T034025_B001	ore core core core core core core core c
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CS_OFFL_SIR_IOP_2_20160309T0193335_20160309T102038_B001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or n	
US UFFL SIK IUP Z ZUTOUSUSTTUTOST ZUTOUSUSTTUZUSO BUUT TICE RANGE AVERAGING STATUS	ore
	ore
CS_OFFL_SIR_IOP_2_20160309T102130_20160309T102541_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T111233_20160309T111321_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T115626_20160309T120442_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T133518_20160309T133720_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T133800_20160309T134312_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T151441_20160309T151530_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T151725_20160309T152329_B001 Ice Range Averaging Status The loce Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T165634_20160309T170159_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T183641_20160309T184050_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T201050_20160309T201534_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T201540_20160309T201547_B001 Ice Range Averaging Status The loe Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T201548_20160309T201554_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T201554_20160309T201931_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T214917_20160309T215433_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	
CS_OFFL_SIR_IOP_2_20160309T215446_20160309T215451_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	
CS_OFFL_SIR_IOP_2_20160309T215508_20160309T215644_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T232842_20160309T233343_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T233344_20160309T233350_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T233408_20160309T233418_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_IOP_2_20160309T233422_20160309T233523_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n 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. 26

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160309T001946_20160309T002427_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T002506_20160309T002619_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T020002_20160309T020341_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T020404_20160309T020730_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T025736_20160309T030025_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T033800_20160309T034255_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T034302_20160309T034631_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T051758_20160309T052326_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T065719_20160309T070223_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T083934_20160309T084127_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T093336_20160309T093613_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T101831_20160309T102038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T102130_20160309T102541_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T111233_20160309T111321_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T115626_20160309T120442_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T133518_20160309T133720_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T133800_20160309T134312_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T151441_20160309T151530_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T151725_20160309T152329_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T183641_20160309T184050_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T201050_20160309T201534_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T201554_20160309T201931_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T215446_20160309T215451_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T215508_20160309T215644_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T233408_20160309T233418_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160309T233422_20160309T233523_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.

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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: