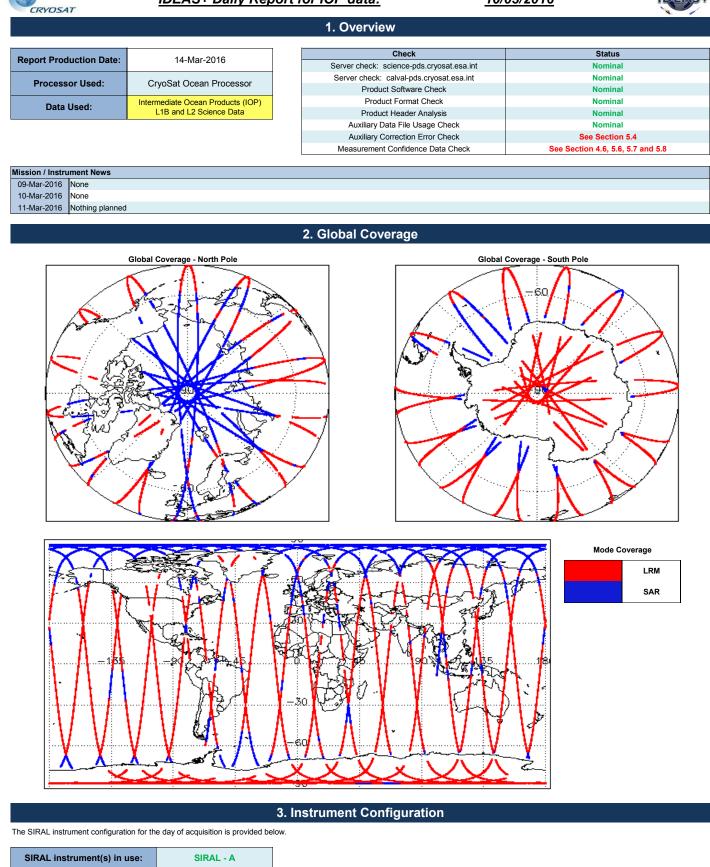


IDEAS+ Daily Report for IOP data:

<u>10/03/2016</u>





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.

Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
lumber of products with errors: 0		
I.4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag (field 60) for each measurer	nent record. The bit value of this flag indicates	any problems when set.
lumber of products with errors: 0		
1.5 L1B Measurement Confidence Data Check		
ryoSat L1B data includes a measurement confidence flag (field 12) for each umber of products with errors: 0	measurement record. The bit value of this flag	indicates any problems when set.
.6 L1B Waveform Group Data Check		
ryoSat L1B data includes a waveform data flag (field 65) for each measurem	ent record. The bit value of this flag indicates a	ny problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
umber of products with errors: 10		
roduct	Test Failed	Description
S_OFFL_SIR_IOP_1B_20160310T051556_20160310T052531_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T093617_20160310T095216_B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T103057_20160310T104254_B001 S_OFFL_SIR_IOP_1B_20160310T105438_20160310T105838_B001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T111536_20160310T111540_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T165317_20160310T170103_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T202139_20160310T202354_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T210816_20160310T211113_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T225105_20160310T225139_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20160310T230852_20160310T232037_B001	Loss of Echo	The tracking echo is missing for one or more records
ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0		
5.2 L2 Product Header Analysis		
or all products a series of pro defined checks are performed on the MPU		
	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
	d SPH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.
lumber of products with errors: 0	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Jumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check		
umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a 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 set of the set of t		
umber of products with errors: 0 .3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pr Ind Model File Usage: This file is currently not included in all L2 products.		
umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pr Vind Model File Usage: This file is currently not included in all L2 products. umber of products with errors: 0		
umber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a pr Vind Model File Usage: This file is currently not included in all L2 products. umber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check	e-determined baseline and also to check the va	
Jumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Sach product is checked for missing Data Set Descriptors with respect to a priving Model File Usage: This file is currently not included in all L2 products. Jumber of products with errors: 0 5.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are check currently, there are two common auxiliary correction errors raised in the	e-determined baseline and also to check the va ecked for the default error value (32767). P Level 2 products which are expected due t	ilidity of Auxiliary Data Files is correct.
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umber of products with errors: 0 3.3 L2 Auxiliary Data File Usage Check ach product is checked for missing Data Set Descriptors with respect to a product is checked for missing Data Set Descriptors with respect to a provide of products with errors: 0 3.4 L2 Auxiliary Correction Error Check or all products, the auxiliary corrections within the Geophysical Group are checked by a table highlighting any additional issues which may arise for ea State Bias Error: The error value is currently set for products over land a litimetric Wind Speed Error: The error value is currently set for products over land a state with the Geophysical Group are checked by a table highlighting any additional issues which may arise for ea State Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products over land a state Bias Error: The error value is currently set for products overection overection errors and the state Bias Error: Th	e-determined baseline and also to check the va ecked for the default error value (32767). b Level 2 products which are expected due t om this test. and sea ice, but this is to be expected.	ilidity of Auxiliary Data Files is correct.
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Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_IOP_2__20160310T161254_20160310T161918_B001 Geoid Height

CS_OFFL_SIR_IOP_2_20160310T150933_20160310T152000_B001

There is an error with the Geoid height for one or more records

CS_OFFL_SIR_IOP_220160310T183305_20160310T184352_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_220160310T202506_20160310T204925_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_220160310T215750_20160310T215909_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_220160310T220703_20160310T221820_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_220160310T225139_20160310T230411_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_220160310T233053_20160310T233751_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_220160310T235129_20160310T235944_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. 0

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. 31

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220160310T010913_20160310T011300_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T011321_20160310T011605_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T024654_20160310T025214_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T025221_20160310T025547_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T034451_20160310T034658_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T042655_20160310T043450_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T060626_20160310T061140_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T074808_20160310T075041_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T092753_20160310T092948_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T093146_20160310T093453_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T102147_20160310T102354_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T110625_20160310T110908_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T110924_20160310T111353_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T124419_20160310T125300_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T142347_20160310T142519_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T142634_20160310T143054_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T160547_20160310T161134_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T174452_20160310T175005_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T192311_20160310T192451_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T192452_20160310T192458_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T192458_20160310T192910_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T201100_20160310T201124_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T205826_20160310T210350_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T210351_20160310T210356_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T210357_20160310T210403_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T210403_20160310T210409_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T210409_20160310T210629_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T214941_20160310T215048_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T223752_20160310T224247_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T224308_20160310T224319_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T224325_20160310T224445_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more 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_220160310T010913_20160310T011300_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T011321_20160310T011605_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T024654_20160310T025214_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T025221_20160310T025547_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T034451_20160310T034658_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T042655_20160310T043450_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T060626_20160310T061140_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T074808_20160310T075041_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T092753_20160310T092948_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T093146_20160310T093453_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T110625_20160310T110908_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T110924_20160310T111353_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T124419_20160310T125300_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T142347_20160310T142519_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T142634_20160310T143054_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T174452_20160310T175005_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T192311_20160310T192451_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T192452_20160310T192458_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T192458_20160310T192910_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T201100_20160310T201124_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T205826_20160310T210350_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T210403_20160310T210409_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T210409_20160310T210629_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T223752_20160310T224247_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T224308_20160310T224319_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220160310T224325_20160310T224445_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: