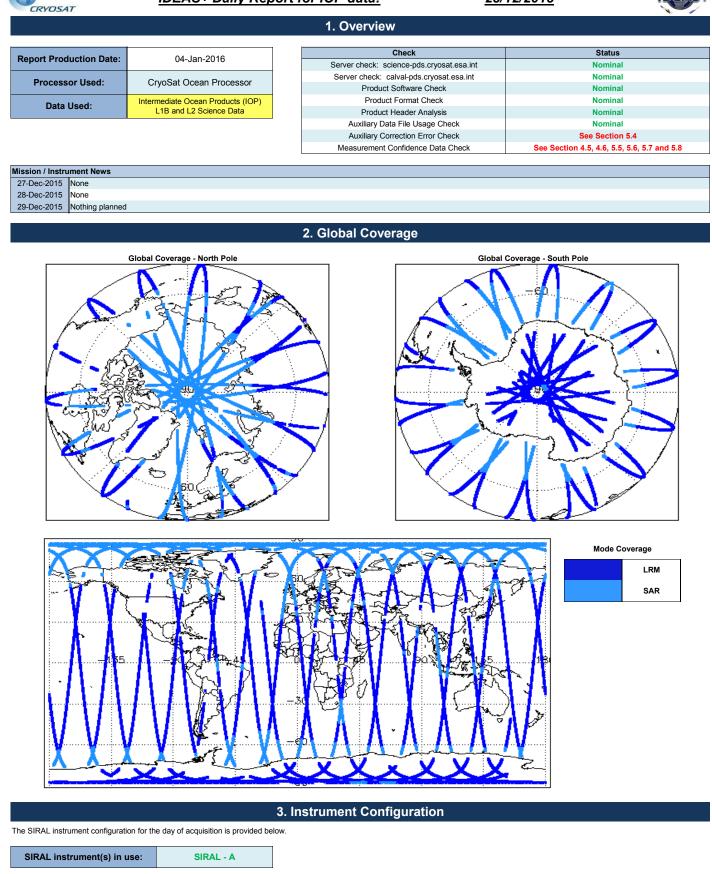


IDEAS+ Daily Report for IOP data:

28/12/2015





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.

<form> All a back a closed of the mark back all closed of the all sectores back all closed of the all closed of t</form>			
AL119 Auxiliary Correction Error Check Cryptel 11 data manufas a connector use tog the flip for each measurement record. The bit value of the big inclusion sky performs when net. AL169 Auxiliary Correction Error Check Cryptel 11 data manufas a measurement confidence big (red) 12 to each measurement record. The bit value of the big inclusion any performs when net. AL169 Auxiliary Correction Error Check Cryptel 11 data manufas a measurement confidence big (red) 12 to each measurement record. The bit value of the big inclusion any performs records AL169 Auxiliary Correction Error Check Cryptel 11 data manufas a measurement confidence big (red) red or each measurement record. The bit value of the big inclusion any preform elemented. AL169 Auxiliary Correction Error Check Cryptel 12 data manufas a scenario (red) (red) field for each measurement record. The bit value of the big inclusion any preform elemented. Cryptel 12 data manufas a scenario (red) (red) (red) for each measurement record. Cryptel 12 data manufas a scenario (red) (red	Each product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
DrySel, 18 decine index a cancelou entry fag (16d 00) for each measurement record. The bit value of this fag inclusive any proteins when set. AS 14 18 decine index a measurement conditions. Nag Index 12 for each measurement record: The bit value of this flag inclusive any proteins when set. AS 14 18 decine index a measurement conditions. Nag Index 12 for each measurement record: The bit value of this flag inclusive any proteins when set. Bold OTT_SEL (0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0	Number of products with errors: 0		
A series of anotoxies of any offer a series offer a seris	4.4 L1B Auxiliary Correction Error Check		
A 5 L15 Messurement Confidence Data Check Taylor II 6 data bioletis a maxement confidence Data Check Taylor II 7 data bioletis a maxement confidence Data Check Taylor II 2010 10 10 10 10 10 10 10 10 10 10 10 10	CryoSat L1B data includes a correction error flag (field 60) for each measurem	nent record. The bit value of this flag indicates a	iny problems when set.
Second S			
Provide of the fail of backbar a measurement on other way to be a product with a call of the fail of backbar any product with a call. Handwar of products with errors:			
Number of products with warrs: 1 Number of products (mg, mg, mg, mg, mg, mg, mg, mg, mg, mg,	4.5 L1B Measurement Confidence Data Check		
Product Tate Failed Description 150, UPFL_SHI_UPF_HE_ODISTRUCTIONSCRUTINSCRUTIONSCRUTIONSCRUTIONSCRUTIONSCRUTIONSCRUTIONSCRUTIONS		measurement record. The bit value of this flag	ndicates any problems when set.
Signer Set Cont Test Set and a more in the safety of the 1.0 seekform for one of nore exceeds As L1B Waveform Group Data Check Items is an error in the staffy of the 1.0 seekform for one of nore exceeds Synder 11 data includes a waveform that the filled 00 for each measurement exceed. Items is an error in the staffy of the 1.0 seekform for one or more records Synder 11 data includes a waveform that the filled 00 for each measurement exceed. Items is an error in the staffy of the 1.0 seekform for one or more records Synder 11 data includes a waveform that the filled 00 for each measurement exceed. Items is an error in the staffy of one or more records Synder 11 data includes a waveform that the filled 00 for each measurement exceeds Items is an error in the staffy of one or more records Synder 11 data includes a provide in the filled 00 for each concerned exceeds Items is an error in the staffy of one or more records Synder 11 data includes a provide in the staffy of one or more records Items is an error in the staffy of one or more records Synder 11 data includes a provide in the staff is one or more records Items is an error in the staffy or one or more records Synder 11 data includes a provide in the staff is one or more records Items is an error in the staffy or one or more records Synder 11 data includes a provide in the staff is one or more records Items is an error in the staffy or one or more records Synder 11	Number of products with errors: 1		
Contract Product stands end Product stands end 45.112 Waveform Group Data Check			•
Start 191 data includes a waterborn data flag (fed (6) for each meaturement month. The bit value of this fag indicates any problems when set: Case of Exchange: The fag is currently set for products over hand. but this is b is expected. Weaker of products with errors: Image: Comparison of the starting set on ear more records Sp. OFFL, SRI, UP, 10, 2015/2201701912, 2015/2201701928, 2015 Leas of Edrois The translag set ois meals for one or more records Sp. OFFL, SRI, UP, 11, 2015/2201701928, 2015/2201702918, 2010 Leas of Edrois The translag set ois meals for one or more records Sp. OFFL, SRI, UP, 12, 2015/2201701928, 2015/2201702918, 2010 Leas of Edrois The translag set ois meals for one or more records Sp. OFFL, SRI, UP, 12, 2015/22017020112, 2015/2201720112, 2015/2201722018, 2010 Leas of Edrois The translag set ois meals for one or more records Sp. OFFL, SRI, UP, 12, 2015/2201720112, 2015/2201722018, 2010 Leas of Edrois The translag set ois meals for one or more records Sp. OFFL, SRI, UP, 12, 2015/2201720112, 2015/220172018, 2010 Leas of Edrois The translag set ois meals for one or more records Sp. OFFL, SRI, UP, 12, 2015/2201720112, 2015/220172018, 2010 Leas of Edrois The translag set ois meals for one or more records Sp. OFFL, SRI, UP, 12, 2015/220172018, 2016/2201720112, 2015/220172018, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2201720112, 2016/2	CS_OFFL_SIR_IOP_1B_20151228T153725_20151228T153824_B001	Power scaling error	
Apple Dep Dep Dep Dep Dep Dep Dep Dep Dep De	4.6 L1B Waveform Group Data Check		
the section of the se	CryoSat 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.
Product Test Failed Description 52, 6FFL_SRL_0P_18_201512281001642_0011522810010457_0001 Loss of Erbo The tracking erbo in missing for one or more records 52, 6FFL_SRL_0P_18_20151228110362_0101528112381022238_0001 Loss of Erbo The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_20151228110362_010152811238142002204_0001 Loss of Erbo The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_20151228112301_0015128112341622 Loss of Erbo The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_20151228112301_0015128112341622 Loss of Erbo The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_2015122811024 Loss of Erbo The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_2015122811024 Loss of Erbo The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_201512811044 Description The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_201512811044 Description The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_20152811044 Description The tracking erbo is missing for one or more records 52, 6FFL_SRL_0P_18_20152811044 Description The tracking erbo is missing for one or more re	.oss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
Sprift_Bit_OP_18_201522010158_2010542_8001 Less of Echo The tracking scho is missing for one or more records Sprift_Bit_OP_18_20151220101544_2015122010242_8001 Less of Echo The tracking scho is missing for one or more records Sprift_Bit_OP_18_20151220110544_2015122011224022038_8001 Less of Echo The tracking scho is missing for one or more records Sprift_Bit_OP_18_20151220112241222130_20151220122201240_20151220122201240_20151220122201240_2015122012201220122012201220122012201220	Number of products with errors: 6		
Sig OFF_SIR_OP_18_20151226101544_201512281002158_8001 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_20151228102278_201512281720228_8001 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_2015122811282102273_801012281722778_8001 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_2015122811282122103_201512281722778_801 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_2015122811284722103_201512281722778_801 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_2015122811284722103_201512281722778_8001 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_20151228112847 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_201512281722779_8001 Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_2015122817287 Dott Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_20152811284 Dott Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_18_20152811284 Dott Loss of Echo The tracking echo is musing for one or more records Sig OFF_SIR_OP_200512811284100000 Dott Loss of Echo The tracking echo is musing for one or more records <t< td=""><td>Product</td><td>Test Failed</td><td>Description</td></t<>	Product	Test Failed	Description
Sign OFFL_SIRLOP_18_2015122211092204_2015122211092205_20001 Loss of Echo The tracking echo is measing for one or more records Sign OFFL_SIRLOP_18_20151222110204_20151222112200_20101 Loss of Echo The tracking echo is measing for one or more records Sign OFFL_SIRLOP_18_20151222110204_20151222112201_200151222112201 Loss of Echo The tracking echo is measing for one or more records Sign OFFL_SIRLOP_18_2015122211020152221102015222110201 Loss of Echo The tracking echo is measing for one or more records Sign OFFL_SIRLOP_18_2015122211020152221102015220110201 Loss of Echo The tracking echo is measing for one or more records Sign OFFL_SIRLOP_18_20151222110201 Loss of Echo The tracking echo is measing for one or more records Sign OFFL_SIRLOP_18_201512281122810201120812281220130_20151228112281 Loss of Echo The tracking echo is measing for one or more records Sign OFFL_SIRLOP_18_2015122811228102011208122810201120811208	CS_OFFL_SIR_IOP_1B_20151228T010116_20151228T010657_B001	Loss of Echo	
Sign OFF_ISRUOP_18_20151228T119544_20151228T123800_8001 Loss of Echo The tracking echo is missing for one or more records Sign OFF_ISRUOP_18_20151228T122100_20151228T22104_B0001 Loss of Echo The tracking echo is missing for one or more records Sign OFF_ISRUOP_18_20151228T122100_20151228T22104_B0001 Loss of Echo The tracking echo is missing for one or more records Sign OFF_ISRUOP_18_20151228T122100_20151228T22104_B001 Loss of Echo The tracking echo is missing for one or more records Sign OFF_ISRUOP_18_2015128T122100_20151228T122100_20151228T22104_B001 Loss of Echo The tracking echo is missing for one or more records Sign OFF_ISRUOP_18_2015128T128T128T02001 Sign OFE_ISRUOP_18_20000000 The tracking echo is missing for one or more records Sign OFF_ISRUOP_18_2015128T128T128T0200000000000000000000000000	CS_OFFL_SIR_IOP_1B_20151228T015644_20151228T020158_B001	Loss of Echo	The tracking echo is missing for one or more records
Sig. OFFL_SIR_UOP_18_201512281722180_2015122817221845_8001 Loss of Echo The tracking echo is missing for one or more records Sig. OFFL_SIR_UOP_18_20151228172310_20151228172274_8001 Loss of Echo The tracking echo is missing for one or more records Sig. OFFL_SIR_UOP_18_20151228172310_20151228172274_8001 Loss of Echo The tracking echo is missing for one or more records Sig. OFFL_SIR_UOP_18_20151228172310_20151228172314_8000 Sig. OFFL_SIR_UOP_18_201512281723142_8000 Sig. OFFL_SIR_UOP_18_201512281723142_8000 Sig. OFFL_SIR_UOP_18_201512281723142_8000 Sig. OFFL_SIR_UOP_18_201512281723142_8000 Sig. OFFL_SIR_UOP_18_201512281723142_8000 Sig. OFFL_SIR_UOP_18_201512281723142 Sig. OFFL_SIR_UOP_201512281723142 Sig. OFFL_SIR_UOP_201512281723142 Sig. OFFL_SIR_UOP_201512281723142 Sig. OFFL_SIR_UOP_201512281723142 Sig. OFFL_SIR_UOP_201512281723172312000557_8001 Sig. OFFL_SIR_UOP_2_2015122817023157_201512281702057_8001 Sig. OFFL_SIR_UOP_2_2015122817023157_20151281703057_8001 Sig. OFFL_SIR_UOP_2_2015122817023157_20151281703057_8001 Sig. OFFL_SIR_UOP_2_2015122817023157_20151281703057_8001 Sig. OFFL_SIR_UOP_2_2015122817023157_20151281703057_8001 Sig. OFFL_SIR_UOP_2_2	CS_OFFL_SIR_IOP_1B_20151228T092204_20151228T092228_B001	Loss of Echo	The tracking echo is missing for one or more records
Big OFF_SIN_OP_18_201512281222130_201512281222734_8001 Loss of Edu The tracking echo is missing for one or more records SLIPP Coluct Format Check S.IPP Level 2 Data Quality Check SLIP Product Format Check Image and the product file (DBL). State Bias resort of the defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or arrors raised by the ground-segment processing chain. State Auxiliary Data File Usage Check State Diagonality in the second with errors: 0 State Auxiliary Data File Usage Check Early products with errors: 0 State Auxiliary Data File Usage Check Early products with errors: 0 State Auxiliary Data File Usage Check Early products with errors: 0 State Auxiliary Data File Usage Check Early products with errors: 0 State Bias Firor: The error value is currently on through and a late 2 products. Nameer of products with errors: 0 State Bias Firor: The error value is currently are first in the products over line and as acie, but his is to be expected. Mitterior With Big Big Hight Products over line and as acie, but his is to be expected. Mitterior With Big Big Hight Products over line and as acie, but his is to be expected. Mitterior With Big Big Hight Products over line and sea (c). but his is to be expected. Mitterior With Big Big Hight Products over line and	CS_OFFL_SIR_IOP_1B_20151228T115545_20151228T122809_B001	Loss of Echo	The tracking echo is missing for one or more records
S. IOP Level 2 Data Quality Check S.1 L2 Product Format Check Exh 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). Rumber of products with errors:	CS_OFFL_SIR_IOP_1B_20151228T221803_20151228T221845_B001	Loss of Echo	The tracking echo is missing for one or more records
S.1 L2 Product Format Check aan product, retrieved and unpacked form 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 S.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 S.2 L2 Auxiliary Data File Usage Check Care products with errors: 0 S.2 L2 Auxiliary Data File Usage Check Care products is checked for missing Data SetD Exciptions 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. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error va	CS_OFFL_SIR_IOP_1B_20151228T222130_20151228T222734_B001	Loss of Echo	The tracking echo is missing for one or more records
S.1 L2 Product Format Check aan product, retrieved and unpacked form 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 S.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 S.2 L2 Auxiliary Data File Usage Check Care products with errors: 0 S.2 L2 Auxiliary Data File Usage Check Care products is checked for missing Data SetD Exciptions 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. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently not included in all L2 products. Wind Model File Usage: This file is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error value is currently set for products over land and sea loc, but this is to be expected. Wind Wind Speed Error: The error va	5.10	P Level 2 Data Quality Che	ack
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:			
Number of products with errors: 0 5.2.1.2 Product Header Analysis: 0 For all products, as eries 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 5.2.1.2 Auxiliary Data File Usage Check 0 S.1.2 Auxiliary Correction Error Check 0 5.4.2 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 with are supported to a surface type. All common flags are summarised in the list below, to bus the bigBigBridg any additional issues which may arise from this test. Sees Bales 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. Restrict Sing (Jop 220151228T010713_20151228T0100357_B001 GM Ionospheric Correction There is an error with the Total Geocentric Ocean Tide height (solution Egy) and the Total Geocentric Ocean Tide height (solution Egy) and the Total Geocentric Ocean Tide (FES), Non- FES) and the Non-equilibrium Long Period Ocean Tide height (solution Egy) and the Total Geocentric Ocean Tide height (solution Egy) and the Total Geocentric Ocean Tide height (solution Egy) and the is an error with the Total Geocentric Ocean Tide height (solution Egy) and the can error with the Total Geocentric Ocean T	5.1 L2 Product Format Check		
Solar 2 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 S.3 L2 Auxiliary Data File Usage Check. Each product is checked for missing Data Set Descriptors with respect to a pre-defermined 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 2 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 checked for the default error value (32767). Currently, there are two common auxiliary correction errors raised in the Lavel 2 products which are arsise from this test. Sas Bale Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected. Autheritor Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Sas Bale Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected. CS_OFFL_SIR_JOP_2_20151228T010713_20151228T010837_B001 GiM Ionospheric Correction There is an error with the Total Geocentric Ocean Tide (FES). Nor Error are incored with the Total Geocentric Ocean Tide (FES). The is an error with the Total Geocentric Ocean Tide (FES). Nor Error ar	Each product, retrieved and unpacked from the science server. is checked to e	ensure it consists of both an XML header file (.I	IDR) and a binary product file (DBI)
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-defermined 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. 0 5.4 L2 Auxiliary Correction Error Check Total products, the auxiliary corrections 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 label 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 product with errors: 17 Product Test Failed Description CS_OFFL_SIR_IOP_2_20151228T010713_20151228T000557_B001 GiM Ionospheric Correction There is an error with the Total Geocentric Ocean Tide (FES), Not FES) and the Non-equilibrum Long Period Ocean Tide (FES), Not FES) and the Non-equilibrum Long Period Ocean Tide (FES), Not FES) and the Non-equilibrum Long Period Ocean Tide (FES), Not FES) and the Non-equilibrum Long Period Ocean Tide (FES), Not FES) and the Non-equilibrum Long Period Ocean Tide (FES), Not FE			ibit) and a binary product nie (.bbb).
For all products, a series of pre-define decks 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 5.3.12 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: 0 5.4.12 Auxiliary Correction Error Check For all products, 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 issess which may arise from this is to be expected. Atlinetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Atlinetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of product with errors: 17 Product Test Failed Description CS_OFFL_SIR_JOP_2_20151228T000557_B001 GiM lonospheric Correction There is an error with the Total Geocentric Ocean Tide height (douldon FES) for ne or more records CS_OFFL_SIR_JOP_2_20151228T023157_20151228T023412_B001 Total Geocentric Ocean Tide (FES), Not FES) and the			
Number of products with errors: 0 5.3.12 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. 0 5.4.12 Auxiliary Correction Error Check. 0 For all products, the auxiliary corrections errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, to biolowed by a tabies binkinghing may additional issues which may arise from this is to. Sea State Blas Error: The error value is currently set for products over land and sea ice, but this is to be expected. Number of product with errors: 1 Product Test Failed Description CopFil_SIR_[OP 2_20151227T233238_20151228T000557_B001 GM lonospheric Correction There is an error with the Gial Geocentric Ocean Tide (FES) Nor- FES) and the Nor-eultibrum Long Period Ocean Tide (FES) Nor- FES) and the Nor-eultibrum Long Period Ocean Tide height (solution fES_0FFIL_SIR_[OP 2_20151228T023157_20151228T023412_B001 Total Geocentric Ocean Tide (FES) Nor- FES is an error with the Total Geocentric Ocean Tide height (solution fES) for one er more records CS_OFFIL_SIR_[OP 2_20151228T023341_20151228T023412_B001 Total Geocentric Ocean Tide (FES) Nor- FES is an error with the Total Geocentric Ocean Tide height (solution fES) in the Nor-eultibrum Long Period Ocean Tide height (solution f	Number of products with errors: 0		
5.3.1 2 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: 0 5.4.1 2 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. See Sate Bias 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: 17 Product CS_OFFL_SIR_IOP_2_20151227T233238_20151228T000557_B001 GiM Ionospheric Correction CS_OFFL_SIR_IOP_2_20151228T010713_20151228T010837_B001 CS_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 Total Geocentric Ocean Tide (FES) CS_OFFL_SIR_IOP_2_20151228T023544_20151228T033841_20151228T040158_B001 CS_OFFL_SIR_IOP_2_20151228T023542_20151228T040158_B001 CS_OFFL_SIR_IOP_2_20151228T033841_20151228T040158_B001 CS_OFFL_SIR_IOP_2_20151228T043321_20151228T040158_B001 CTotal Geocentric Ocean Tide (FES) CS_OFFL_SIR_IOP_2_20151228T043321_20151228T04158_B001 CTotal Geocentric Ocean Tide (FE	Number of products with errors: 0	·	
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Number of products with errors: 0 5.4.12 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 corrections may after 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. Attimuter 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: 17 Product Test Failed Description CS_OFFL_SIR_IOP_2_20151228T010713_20151228T010837_B001 GIM lonospheric Correction There is an error with the GIM lonospheric Corean Tide height (solution ES_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 Total Geocentric Ocean Tide (FES) Non FES) and the Non-equilibrium Long Period Ocean Tide height (solution ES_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution ES_OFFL_SIR_IOP_2_20151228T023341_20151228T030810_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Ocean Depth Land Elevation for one or more records CS_OFFL_SIR_IOP_2_20151228T033841_20151228T04158_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solu	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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
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 form that test. Sea State Blas 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: 17 Product Test Failed Description CS_OFFL_SIR_IOP_2_20151227T23328_20151228T000557_B001 GiM lonospheric Correction There is an error with the Gial Geocentric Ocean Tide (FES), Norn FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide h	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 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-	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
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Attimetric 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: 17 Product Test Failed Description CS_OFFL_SIR_IOP_2_20151227T233238_20151228T000557_B001 GIM lonospheric Correction There is an error with the GIM lonospheric correction for one or more records CS_OFFL_SIR_IOP_2_20151228T010713_20151228T010837_B001 Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) for one or more records CS_OFFL_SIR_IOP_2_20151228T023157_20151228T030810_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Ocean Depth/ Land Elevation for one or more records CS_OFFL_SIR_IOP_2_20151228T033841_20151228T040158_B001 Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide height (solution for ere or more records CS_OFFL_SIR_IOP_2_20151228T040321_20151228T040158_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution for ere or more records CS_OFFL_SIR_IOP_2_20151228T040321_20151228T040158_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution f	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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are two common auxiliary correction errors raised in the	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767).	nd/or errors raised by the ground-segment processing chain.
Number of products with errors: 17 Product Test Failed Description CS_OFFL_SIR_IOP_2_20151227T233238_20151228T000557_B001 GIM lonospheric Correction There is an error with the GIM lonospheric correction for one or more records CS_OFFL_SIR_IOP_2_20151228T010713_20151228T010837_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) for one or more records CS_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records CS_OFFL_SIR_IOP_2_20151228T025244_20151228T030810_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Ocean Depth/ Land Elevation for one or more records CS_OFFL_SIR_IOP_2_20151228T033841_20151228T040158_B001 Total Geocentric Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_IOP_2_20151228T040321_20151228T041136_B001 Total Geocentric Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_IOP_2_20151228T040321_20151228T041136_B001 Total Geocentric Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Peri	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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a prewind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). • Level 2 products which are expected due to on this test.	nd/or errors raised by the ground-segment processing chain.
Product Test Failed Description CS_OFFL_SIR_IOP_2_20151227T233238_20151228T000557_B001 GIM lonospheric Correction There is an error with the GIM lonospheric correction for one or more records CS_OFFL_SIR_IOP_2_20151228T010713_20151228T010837_B001 Total Geocentric Ocean Tide (FES), Non FeS) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) for one or more records CS_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records CS_OFFL_SIR_IOP_2_20151228T023244_20151228T030810_B001 Total Geocentric Ocean Tide (FES) There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Ocean Depth/ Land Elevation for one or more records CS_OFFL_SIR_IOP_2_20151228T033841_20151228T040158_B001 Total Geocentric Ocean Tide (FES), Non FEQ and the Non-equilibrium Long Period Ocean Tide height for one or more records CS_OFFL_SIR_IOP_2_20151228T040321_20151228T040158_B001 Total Geocentric Ocean Tide (FES), Non FEQ and the Non-equilibrium Long Period Ocean Tide height (solution FES) for one or more records CS_OFFL_SIR_IOP_2_20151228T040321_20151228T041136_B001 Total Geocentric Ocean Tide (FES), Non FES is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records CS_OFFL_SIR_IOP_2_20151228T040321	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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are che Currently, there are two common auxiliary correction errors raised in the 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	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). • Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain.
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CS_OFFL_SIR_IOP_2_20151228T04132_20151228T041136_B001 Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) for one or more records Total Geocentric Ocean Tide (FES), Non-Fruilibrium Long Period Ocean Tide (FES), and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or fruitibrium Long Period Ocean Tide (FES), Non-Fruilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or fruitibrium Long Period Ocean Tid	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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a prewind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are chefolowed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over Number of products with errors: 17 Product CS_OFFL_SIR_IOP_220151228T010713_20151228T000557_B001 CS_OFFL_SIR_IOP_220151228T010713_20151228T010837_B001 CS_OFFL_SIR_IOP_220151228T010713_20151228T023412_B001	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va e-determined baseline and also to check the va ecked for the default error value (32767). • Level 2 products which are expected due to om this test. ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Example Correction Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES)	Idior errors raised by the ground-segment processing chain. Idioty of Auxiliary Data Files is correct. Desurface type. All common flags are summarised in the list below, Description There is an error with the GIM Ionospheric correction for one or more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records
CS_OFFL_SIR_IOP_2_20151228T041137_20151228T041436_B001 Total Geocentric Ocean Tide (FES), Non- Fourilibrium Long Period Ocean Tide Fourilibrium Long Period Ocean Tide Fourilibrium Long Period Ocean Tide	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 Number of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a prewind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Altimetric Wind Speed Error: The error value is currently set for products over land a Cs_OFFL_SIR_IOP_2_20151228T010713_20151228T010837_B001 CS_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 CS_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 CS_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va e-determined baseline and	Ididity of Auxiliary Data Files is correct.
US_OFFL_SIR_IOP_2_201512281041137_201512281041436_B001 Feguilibrium Long Period Ocean Tide FES) and the Non-equilibrium Long Period Ocean Tide relight for one of	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 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 predwind 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 check 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 futimetric Wind Speed Error: The error value is currently set for products over land a futimetric Wind Speed Error: The error value is currently set for products over land a futimetric Sea OFFL_SIR_IOP_2_20151228T010713_20151228T000557_B001 CS_OFFL_SIR_IOP_2_20151228T023157_20151228T023412_B001 CS_OFFL_SIR_IOP_2_20151228T023157_20151228T030810_B001 CS_OFFL_SIR_IOP_2_20151228T025244_20151228T030810_B001 CS_OFFL_SIR_IOP_2_20151228T033841_20151228T040158_B001	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). • Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. I Test Failed I GIM Ionospheric Correction Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Fuel Gia Gocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	Idility of Auxiliary Data Files is correct.
records more records	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 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 predwind 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 checked for missing any additional issues which may arise for followed by a table highlighting any additional issues which may arise for followed by a table highlighting any additional issues which may arise for followed by a table highlighting any additional issues which may arise for forducts over land a Atimetric Wind Speed Error: The error value is currently set for products over land a Atimetric Followed by a table highlighting any additional issues which may arise for Spect for products with errors: 17 Product CS_OFFL_SIR_IOP_220151228T023157_20151228T000557_B001 CS_OFFL_SIR_IOP_220151228T023157_20151228T030810_B001 CS_OFFL_SIR_IOP_220151228T033841_20151228T040158_B001 CS_OFFL_SIR_IOP_220151228T033841_20151228T040158_B001 CS_OFFL_SIR_IOP_220151228T040321_20151228T041136_B001	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). P Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. I Test Failed I GIM Ionospheric Correction I Total Geocentric Ocean Tide (FES)	Idility of Auxiliary Data Files is correct.

CS_OFFL_SIR_IOP_2_20151228T061653_20151228T064230_B001 Mean Sea Surface (2) There is an error with the MSS height (solution 2) for one or more records

Total Geocentric Ocean Tide (FES)

CS_OFFL_SIR_IOP_2__20151228T044021_20151228T044056_B001

There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

CS_OFFL_SIR_IOP_220151228T074243_20151228T074715_B001	For Four 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_220151228T110352_20151228T111406_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_220151228T142616_20151228T142717_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_220151228T142717_20151228T144049_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220151228T152910_20151228T153724_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_220151228T172859_20151228T173122_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220151228T175130_20151228T181728_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_220151228T222130_20151228T222734_B001	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

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_220151228T153725_20151228T153824_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_220151228T000818_20151228T001328_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T001334_20151228T001341_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T001341_20151228T001348_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T001348_20151228T001643_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T005647_20151228T010018_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T014721_20151228T015225_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T015226_20151228T015232_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151228T015240_20151228T015245_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T015245_20151228T015257_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T015304_20151228T015430_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T033144_20151228T033155_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T033218_20151228T033321_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T050718_20151228T051053_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T051115_20151228T051430_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T064501_20151228T065006_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151228T065014_20151228T065341_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T082459_20151228T083039_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T083132_20151228T083241_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T100424_20151228T100933_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151228T114628_20151228T114835_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T132546_20151228T132744_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T132906_20151228T133246_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T141937_20151228T142103_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T150402_20151228T151148_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T164222_20151228T164435_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T164448_20151228T165041_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T182145_20151228T182301_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T182432_20151228T182851_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220151228T200342_20151228T200921_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T205102_20151228T205849_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T214246_20151228T214758_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T232024_20151228T232245_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T232252_20151228T232703_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag (field 49) and an Ocean (field 55) and Ice (field 61) Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

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

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 23

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220151228T000818_20151228T001328_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T001334_20151228T001341_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T001348_20151228T001643_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T033218_20151228T033321_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T050718_20151228T051053_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T051115_20151228T051430_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T064501_20151228T065006_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T065014_20151228T065341_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T082459_20151228T083039_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T083132_20151228T083241_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T100424_20151228T100933_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T114628_20151228T114835_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T132546_20151228T132744_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T132906_20151228T133246_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T150402_20151228T151148_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T164222_20151228T164435_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T164448_20151228T165041_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T182145_20151228T182301_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T182432_20151228T182851_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T205102_20151228T205849_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T214246_20151228T214758_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T232024_20151228T232245_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151228T232252_20151228T232703_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:

136