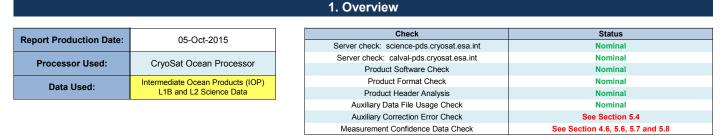


# IDEAS+ Daily Report for IOP data:

# <u>01/10/2015</u>



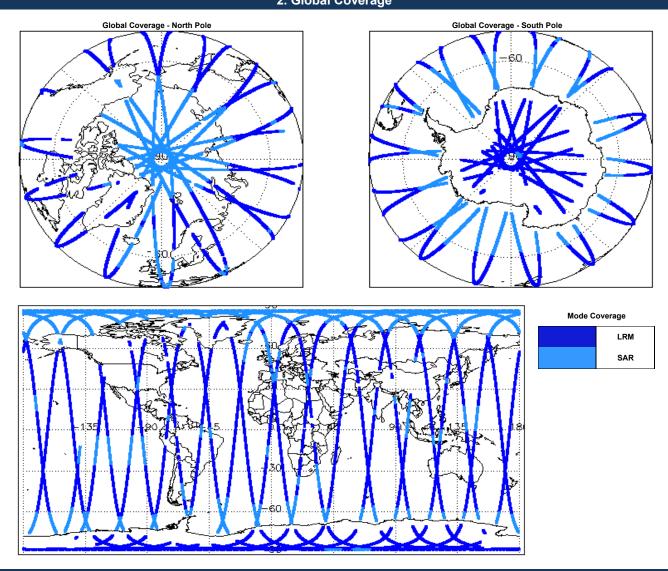


#### Mission / Instrument News 30-Sep-2015 None

01-Oct-2015 SIRAL unavailability from 23:30:32 on 1-Oct-2015 to 00:26:54 on 2-Oct-2015 due to a planned orbit manoeuvre.

02-Oct-2015 Nothing planned

# 2. Global Coverage



## 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

#### SIRAL instrument(s) in use:

SIRAL - A

## 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 repsect to a p	re-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 60) for each measured	ment record. The bit value of this flag indicates a	any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
	manufroment record. The hit value of this floor	indicates any problems when est
CryoSat L1B data includes a measurement confidence flag (field 12) for each lumber of products with errors: 0	measurement record. The bit value of this hag	indicates any problems when set.
I.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measurer	-	ny problems when set.
.oss of Echo Flag: This flag is currently set for products over land, but this i	s to be expected.	
lumber of products with errors: 12		
roduct	Loss of Echo	Description
S_OFFL_SIR_IOP_1B_20151001T011954_20151001T015234_B001 S_OFFL_SIR_IOP_1B_20151001T023523_20151001T023638_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_201510011023923_201510011023030_D001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_201510011022425_201510011023040_0001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_201510011002349_201510011003331_b001 S_OFFL_SIR_IOP_1B_20151001T073815_20151001T074037_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20151001T112245_20151001T114714_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_201510011122030_201510011120409_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_201510011124833_201510011125542_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_201510011124035_201510011123042_0001	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo	
S_OFFL_SIR_IOP_1B_20151001T170211_20151001T171826_B001		The tracking echo is missing for one or more records
S_OFFL_SIR_IOP_1B_20151001T185634_20151001T191230_B001 S_OFFL_SIR_IOP_1B_20151001T223307_20151001T223528_B001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
5. I 1 L2 Product Format Check	OP Level 2 Data Quality Che	
5. 1 5.1 L2 Product Format Check		
5.1 L2 Product Format Check Sach product, retrieved and unpacked from the science server, is checked to lumber of products with errors: 0		
5.1 L2 Product Format Check Sach product, retrieved and unpacked from the science server, is checked to lumber of products with errors: 0		
5. 1 5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to umber of products with errors: 0 5.2 L2 Product Header Analysis	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL).
5. 1 5.1 L2 Product Format Check ach product, retrieved and unpacked from the science server, is checked to humber of products with errors: 0 5.2 L2 Product Header Analysis or all products, a series of pre-defined checks are performed on the MPH ar	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check         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 pre-defined checks are performed on the MPH ar umber of products with errors:         0	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL).
5.1 L2 Product Format Check         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 pre-defined checks are performed on the MPH ar umber of products with errors:         0         5.3 L2 Auxiliary Data File Usage Check	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check      iach product, retrieved and unpacked from the science server, is checked to      lumber of products with errors:         0          5.2 L2 Product Header Analysis      or all products, a series of pre-defined checks are performed on the MPH ar      lumber of products with errors:         0          5.3 L2 Auxiliary Data File Usage Check          iach product is checked for missing Data Set Descriptors with respect to a p	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check 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 pre-defined checks are performed on the MPH ar 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 p Ind Model File Usage: This file is currently not included in all L2 products.	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check         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 pre-defined checks are performed on the MPH ar 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 p         Vind Model File Usage: This file is currently not included in all L2 products.         umber of products with errors:       0	ensure it consists of both an XML header file (.i	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check         Sach product, retrieved and unpacked from the science server, is checked to humber of products with errors:         0         5.2 L2 Product Header Analysis         or all products, a series of pre-defined checks are performed on the MPH are humber 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 performed on the IL2 products.         Wind 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	ensure it consists of both an XML header file (.i nd SPH in order to identify any inconsistencies a re-determined baseline and also to check the va	HDR) and a binary product file (.DBL). nd/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check      iach 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 pre-defined checks are performed on the MPH ar      lumber 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 p  Wind Model File Usage: This file is currently not included in all L2 products.  Iumber of products with errors:         0      5.4 L2 Auxiliary Correction Error Check  or all products, the auxiliary corrections within the Geophysical Group are classed.	ensure it consists of both an XML header file (.i nd SPH in order to identify any inconsistencies a re-determined baseline and also to check the va	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to humber 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 are humber 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 performed on the IL2 products.         Und Model File Usage: This file is currently not included in all L2 products.         Lumber of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are characterized and the scurrently, there are two common auxiliary correction errors raised in the scurrently.	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the va necked for the default error value (32767). e Level 2 products which are expected due to	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to lumber 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 are lumber 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 performed on the IL2 products.         Undber of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are clearered by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may arise for the product by a table highlighting any additional issues which may ari	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the va necked for the default error value (32767). e Level 2 products which are expected due to rom this test.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
5.1 L2 Product Format Check     5.1 L2 Product Format Check     5.4 L2 Product and unpacked from the science server, is checked to     1umber 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 ar     1umber 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 p     Vind Model File Usage: This file is currently not included in all L2 products.     Iumber of products with errors:     0     5.4 L2 Auxiliary Correction Error Check     for all products, the auxiliary corrections within the Geophysical Group are cl     currently, there are two common auxiliary correction errors raised in th     ollowed by a table highlighting any additional issues which may arise f     the astate Bias Error: The error value is currently set for products over land	ensure it consists of both an XML header file (.i nd SPH in order to identify any inconsistencies a re-determined baseline and also to check the va necked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
5.1       L2 Product Format Check         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 pre-defined checks are performed on the MPH ar 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 of products with errors:         0       0         5.4       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 utimetric Wind Speed Error: The error value is currently set for products over land	ensure it consists of both an XML header file (.i nd SPH in order to identify any inconsistencies a re-determined baseline and also to check the va necked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain.
5.1         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.3         5.4         5.4         5.5         5.6         6         5.7         6         6         6         7.5         7.6         7.6         7.7         7.7         7.8         7.9         7.10         7.10         7.10         7.10         7.10<	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the va necked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ilidity of Auxiliary Data Files is correct.
5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.3         5.4         5.4         5.4         5.4         5.5         5.6         5.7         6.7         6.8         6.9         7.9         7.9         7.9         7.9         7.1         7.1         7.1         7.2         7.3         7.4         7.5         7.6         7.7         7.7         7.8         7	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the var necked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ilidity of Auxiliary Data Files is correct. Ilidity of Auxiliary Data Files is correct. Ilidity of Auxiliary Data Files is correct. IDENTIFY OF AUXILIARY DATA FILES AND ADDRESSING ADDRES
5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.3         5.4         5.4         5.4         5.4         5.5         5.6         5.7         6.7         6.8         6.9         7.9         7.9         7.9         7.9         7.1         7.1         7.1         7.2         7.3         7.4         7.5         7.6         7.7         7.7         7.8         7	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the va hecked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. Test Failed GIM lonospheric Correction	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Iidity of Auxiliary Data Files is correct. Iidity of Auxiliary Data Files is correct. Description There is an error with the GIM lonospheric correction for one or more records
5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.3         5.4         5.4         5.4         5.4         5.4         5.4         5.5         5.6         6.6         6.7         6.7         6.8         6.9         6.9         6.4         7.5         7.6         7.6         7.7         7.8         7.9         7.9         7.9         7.9         7.9         7	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the var necked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected.	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ilidity of Auxiliary Data Files is correct. Ilidity of Auxiliary Data Files is correct. Ilidity of Auxiliary Data Files is correct. IDENTIFY OF AUXILIARY DATA FILES AND ADDRESSING ADDRES
5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.1         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.2         5.3         5.3         5.4         5.4         5.3         5.3         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.4         5.5         5.6         5.7         5.8         6.4         6.4         6.5         7.5         7.6         7.6         7	ensure it consists of both an XML header file (.i and SPH in order to identify any inconsistencies a re-determined baseline and also to check the var recedetermined baseline and also to check the var recede	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Idity of Auxiliary Data Files is correct. Idity of Auxiliary Data Files is correct. 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 for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height 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) and the Non-equilibrium Long Period Ocean Tide height for one of the otean Tide h
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to humber of products with errors:       0         5.2 L2 Product Header Analysis       0         5.2 L2 Product Header Analysis       0         5.3 L2 Auxiliary Data File Usage Check       0         5.3 L2 Auxiliary Data File Usage Check       0         5.4 L2 Auxiliary Data File Usage Check       0         5.4 L2 Auxiliary Correction Error Check       0         5.4 L2 Auxiliary Corrections within the Geophysical Group are clearently, there are two common auxiliary correction errors raised in the ollowed by a table highlighting any additional issues which may arise for a state Bias Error: The error value is currently set for products or lumber of products with errors:       25         Froduct       25       25         Froduct       25       20         ScoFFL_SIR_IOP_2_20150930T235754_20151001T000305_B001       25         CS_OFFL_SIR_IOP_2_20151001T005822_20151001T010240_B001       25         CS_OFFL_SIR_IOP_2_20151001T005822_20151001T010240_B001       25	ensure it consists of both an XML header file (.i and SPH in order to identify any inconsistencies a re-determined baseline and also to check the va necked for the default error value (32767). e Level 2 products which are expected due to rom this test. and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. Test Failed GIM lonospheric Correction Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Iidity of Auxiliary Data Files is correct. Iidity of Auxiliary Data Files is correct. 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 for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records
5.1       L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to humber 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 are humber 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 point of products with errors:       0         5.4       L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are of coursently, there are two common auxiliary correction errors raised in the ollowed by a table highlighting any additional issues which may arise for a State Bias Error: The error value is currently set for products or humber of products with errors:       25         Product       25         Product       Scipper_2_20150930T235754_20151001T000305_B001         CS_OFFL_SIR_IOP_2_20151001T00534_20151001T010240_B001       25         CS_OFFL_SIR_IOP_2_20151001T010534_20151001T0102352_B001       25         CS_OFFL_SIR_IOP_2_20151001T010534_20151001T0102352_B001       25	ensure it consists of both an XML header file (.i nd SPH in order to identify any inconsistencies a re-determined baseline and also to check the var- recedetermined baseline and also to check the var- recedetermited baseline and also to check the var- recedetermined baseli	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ididity of Auxiliary Data Files is correct. Ididity of Auxiliary Data Files is correct. Description There is an error with the GIM lonospheric 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) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records
5.1       L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to humber 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 are humber 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 point Model File Usage: This file is currently not included in all L2 products.         Humber of products with errors:       0         5.4       L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are classed by a table highlighting any additional issues which may arise for bolowed by a table highlighting any additional issues which may arise for bolowed by a table highlighting any additional issues which may arise for products or humber of products with errors:       25         Forduct       25         So OFFL_SIR_IOP_2_20151001T005342_20151001T00305_B001       25         SS_OFFL_SIR_IOP_2_20151001T00534_20151001T010240_B001       25         SS_OFFL_SIR_IOP_2_20151001T023522_B001       25         SS_OFFL_SIR_IOP_2_20151001T023522_B001       25         SS_OFFL_SIR_IOP_2_20151001T023850_20151001T0234443_B001	ensure it consists of both an XML header file (.i and SPH in order to identify any inconsistencies a re-determined baseline and also to check the va recedetermined baseline and also to check th	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ilidity of Auxiliary Data Files is correct. Ilidity of Auxiliary Data Files is correct. Description There is an error with the GIM lonospheric 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 for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or FES) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or Here 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 Here is an error with the Total Geocentric Ocean Tide height (solution Here is an error with the Total Geocentric Ocean Tide height (solution Here is an error with the Total Geocentric Ocean Tide height (solution Here is an error with the Total Geocentric Ocean Tide height (solution Here is an error with the Total Geocentric Ocean Tide height (solution Here is an error with the Total Geocen
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to 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 are 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 point of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         Each products, the auxiliary correction Error Check         For all products, the auxiliary correction errors raised in the ollowed by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products or Number of products with errors:         25         Product         26.0FFL_SIR_IOP_2_20151001T005822_20151001T000305_B001         27.0FFL_SIR_IOP_2_20151001T010534_20151001T010733_B001         28_OFFL_SIR_IOP_2_20151001T023850_20151001T024443_B001         29_OFFL_SIR_IOP_2_20151001T023850_20151001T024443_B001         29_OFFL_SIR_IOP_2_20151001T023850_20151001T02640_B001	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the va recedetermined baseline and also to check the	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Iiidity of Auxiliary Data Files is correct. Iiidity of Auxiliary Data Files is correct. Description There is an error with the GIM lonospheric 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) and the Non-equilibrium Long Period Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or Here is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or Here is an error with the Total Geocentric Ocean Tide height for one or Here is an error with the Total Geocentric Ocean Tide height for one or Here is an error with the Total Geocentric Ocean Tide height for one or Here is an error with the Total Geocentric Ocean Tide height for one or Here is an error with the Total Geocentric Ocean Tide height for one or Here is an error with the Total Geocentric Ocean Tide height for one or
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to 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 ar 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 p 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 For all products, the auxiliary corrections within the Geophysical Group are check For all products, the auxiliary corrections within the Geophysical Group are check For all products, the auxiliary corrections within the Geophysical Group are checked by a table highlighting any additional issues which may arise for Sea State Bias Error: The error value is currently set for products over land Altimetric Wind Speed Error: The error value is currently set for products or	ensure it consists of both an XML header file (.i ad SPH in order to identify any inconsistencies a re-determined baseline and also to check the va hecked for the default error value (32767). <b>e Level 2 products which are expected due to</b> <b>rom this test.</b> and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. <b>Test Failed</b> GIM lonospheric Correction Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Geoid Height Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Geoid Height Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	HDR) and a binary product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Ididity of Auxiliary Data Files is correct. Ididity of Auxiliary Data Files is correct. Description There is an error with the GIM lonospheric 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) and the Non-equilibrium Long Period Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records

CS\_OFFL\_SIR\_IOP\_2\_\_20151001T062349\_20151001T063331\_B001

Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_IOP_220151001T063332_20151001T063534_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_220151001T090057_20151001T091044_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_220151001T092946_20151001T093142_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_220151001T093142_20151001T093530_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	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_220151001T124833_20151001T125542_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_220151001T141816_20151001T142724_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_220151001T143334_20151001T143515_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_220151001T160622_20151001T160843_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOP_220151001T170211_20151001T171826_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	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_220151001T180711_20151001T180925_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_220151001T185455_20151001T185634_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220151001T185634_20151001T191230_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_IOP_220151001T191716_20151001T191908_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_220151001T193020_20151001T194039_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	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_220151001T204231_20151001T204332_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_220151001T210812_20151001T211552_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	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_220151001T211805_20151001T212750_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

#### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Number of products with errors:

#### 5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean (field 25) and Ice (field 30) Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 32

Number of products with errors:

Product Test Failed Description The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T002053\_20151001T002636\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20151001T015957 20151001T020508 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T033752\_20151001T033956\_B001 Ice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T033956\_20151001T034003\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20151001T034003 20151001T034417 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T042514\_20151001T042631\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T051335\_20151001T051855\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T051901\_20151001T051907\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T051908\_20151001T051914\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T051914\_20151001T052122\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20151001T065300 20151001T065755 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T065755\_20151001T065758\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T065759\_20151001T065806\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20151001T065830 20151001T065947 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T083241\_20151001T083722\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T083744\_20151001T083907\_B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS OFFL SIR IOP 2 20151001T101222 20151001T101622 B001 Ice Range Averaging Status records The Ice Range Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_IOP\_2\_\_20151001T101626\_20151001T101636\_B001 Ice Range Averaging Status records

CS_OFFL_SIR_IOP_2_20151001T101642_20151001T102007_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151001T115054_20151001T115536_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151001T115540_20151001T115911_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151001T133040_20151001T133603_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151001T151009_20151001T151501_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151001T165214_20151001T165406_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151001T165732_20151001T165812_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151001T183103_20151001T183320_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151001T183358_20151001T183817_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151001T200853_20151001T201723_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151001T214800_20151001T214953_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20151001T215047_20151001T215530_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151001T232728_20151001T232748_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220151001T233005_20151001T233032_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. 25

Number of products with errors:

Test Failed	Description
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	Ice Backscatter Averaging Status Ice Backscatter Averaging Status

## 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.