

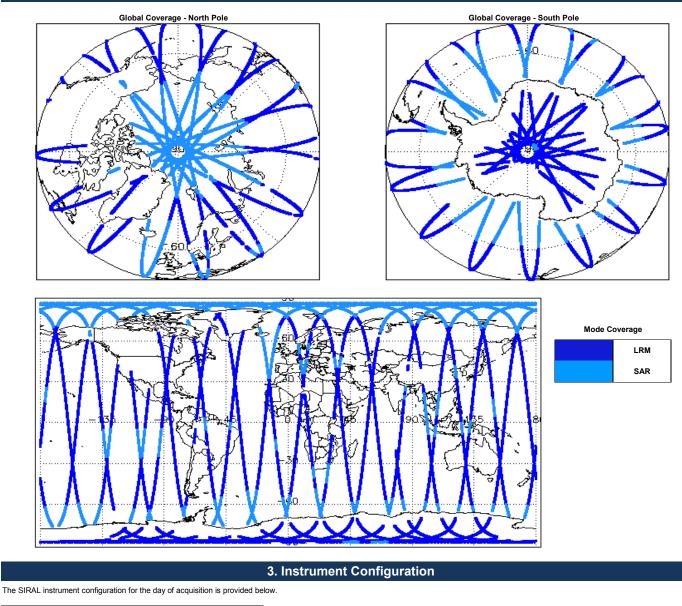
# IDEAS+ Daily Report for GOP data:

### <u>13/08/2015</u>

Report Production Date:	15-Sep-2015	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data	Product Format Check	Nominal
		Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.6, 5.6, 5.7 and 5.8

13-Aug-2015	
14-Aug-2015	Nothing planned





SIRAL instrument(s) in use:

SIRAL - A

## 4. GOP 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 product file (.DBL). Number of products with errors: 0

#### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

4.3 L1B Auxilary Data File Usage Check		
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.
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 measurem	nent record. The bit value of this flag indicates a	ny problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each i	measurement record. The hit value of this flag	ndicates any problems when set
Number of products with errors: 0	nicasarement record. The bit value of this hag	
4.6 L1B Waveform Group Data Check		
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.
.oss of Echo Flag: This flag is currently set for products over land, but this is	-	, p
lumber of products with errors: 9		
Product	Test Failed	Description
S_OFFL_SIR_GOP_1B_20150813T021922_20150813T024656_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20150813T025513_20150813T025645_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20150813T053505_20150813T053849_B001 S OFFL SIR GOP 1B 20150813T081007 20150813T082243 B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS OFFL SIR GOP 1B 20150813T142945 20150813T143719 B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20150813T152852_20150813T153308_B001	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150813T203011_20150813T204502_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20150813T215135_20150813T215339_B001	Loss of Echo	The tracking echo is missing for one or more records
	OD Lovel 2 Data Ovality Ch	
5. G	OP Level 2 Data Quality Ch	eck
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML header file (.I	HDR) and a product file (.DBL).
Each product, retrieved and unpacked from the science server, is checked to example of products with errors: 0	ensure it consists of both an XML header file (.l	IDR) and a product file (.DBL).
Number of products with errors: 0	ensure it consists of both an XML header file (.i	IDR) and a product file (.DBL).
	ensure it consists of both an XML header file (.l	IDR) and a product file (.DBL).
Number of products with errors:     0       5.2 L2 Product Header Analysis	·	
Number of products with errors: 0	·	
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	·	
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.
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 preserved on the server of a product is checked for missing Data Set Descriptors with respect to a preserved on the server of a preserved on the server on the server of a preserved on the server of a preserved on the server on the server on the server on the server on the served on the server on the server on the served	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
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 previous descriptors with respect to a previous description of products.	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
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 previous file Usage: This file is currently not included in all L2 products.         Number of products with errors:       0	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
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 previous 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	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va	nd/or errors raised by the ground-segment processing chain.
Aumber 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 Aumber 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	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:       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 prediment 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). e Level 2 products which are expected due t	nd/or errors raised by the ground-segment processing chain.
Aumber 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 Aumber 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 preformed 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         Currently, there are two common auxiliary correction errors raised in the polowed by a table highlighting any additional issues which may arise for the section of the product is section.	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). a Level 2 products which are expected due t rom this test.	nd/or errors raised by the ground-segment processing chain.
Jumber 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 Jumber 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 prevent 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 check         For all products, the auxiliary corrections within the geophysical Group are check         For all products, the error value is currently set for products over land a geophysical Group are check	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). e Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain.
Jumber 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 Jumber 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 prespect to product is checked for missing Data Set Descriptors with respect to a prespect of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are check         Corrently, there are two common auxiliary correction errors raised in the Beolowed by a table highlighting any additional issues which may arise for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is currently set for products over land a Witnetric Wind Speed Error: The error value is	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). e Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain.
Jumber 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         Jumber 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-         Vind 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         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         Gea State Bias Error: The error value is currently set for products over land a         Autimetric Wind Speed Error: The error value is currently set for products over land a         Autimetric Wind Speed Error: The error value is currently set for products over land a         Autimetric Wind Speed Error: The error value is currently set for products over land a         Autimetric Wind Speed Error: The error value is currently set for products over land a         Autimetric Wind Speed Error: The error value is currently set for products over land a         Autimetric Wind Speed Error: The error value is currently set for products over land a         Autimetric Wind Speed Error: The error value is currently set for product	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). b Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain.
Aumber 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 umber 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 pression of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are check         Corrently, there are two common auxiliary correction errors raised in the Beolowed by a table highlighting any additional issues which may arise for Bea State Bias Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error: The error value is currently set for products over land a Unmetric Wind Speed Error set for products over land a Unmetric Wind Speed Error set for products over land a Unmetric Wind Speed Error set for products over land a Unmetric Wind Speed Error set for products over land a Unmetric Wind Speed Error set f	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). a Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected.	Ind/or errors raised by the ground-segment processing chain.
Aumber 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 Aumber 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 preformed or 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 future of products with errors:         12         Product         Carper Sea State Bias Error: The error value is currently set for products over land a future of products with errors:         12         Product         Carper Sea State Bias Error: The error value is currently set for products over land a future of products with errors:         12         Product	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). Evel 2 products which are expected due t rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Nor	Ind/or errors raised by the ground-segment processing chain.  Ind/or errors raised by the ground-segment processing chain.  Indicipation of the second secon
Jumber 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 tumber of products with errors:         0         5.3 L2 Auxiliary Data File Usage Check         Cach product is checked for missing Data Set Descriptors with respect to a preduct of products with errors:         0         5.4 L2 Auxiliary Data File Usage Check         Cach product is checked for missing Data Set Descriptors with respect to a preduct of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         Cor all products, the auxiliary corrections within the Geophysical Group are checked by a table highlighting any additional issues which may arise for bolowed by a table highlighting any additional issues which may arise for the error value is currently set for products over land a sutimetric Wind Speed Error: The error value is currently set for products over land a sutimetric Wind Speed Error: The error value is currently set for products over land a sutimetric Wind Speed Error: The error value is currently set for products over land a sutimetric Sing GoP_2_20150813T010919_20150813T011552_B001         CS_OFFL_SIR_GOP_2_20150813T010919_20150813T0124656_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). b Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor	Idior errors raised by the ground-segment processing chain.
Aumber 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 tumber of products with errors:         0         5.3 L2 Auxiliary Data File Usage Check         Cach product is checked for missing Data Set Descriptors with respect to a product with errors:         0         5.4 L2 Auxiliary Data File Usage Check         Cach product is checked for missing Data Set Descriptors with respect to a product with errors:         0         5.4 L2 Auxiliary Correction Error Check         Cor all products, the auxiliary corrections within the Geophysical Group are checked for missing any additional issues which may arise for a lipholy a table highlighting any additional issues which may arise for Bea State Bias Error: The error value is currently set for products over land a litemetric Wind Speed Error: The error value is currently set for products over land a litemetric Wind Speed Error: The error value is currently set for products over land a litemetric Wind Speed Error: The error value is currently set for products over land a litemetric Sci OFFL_SIR_GOP_2_20150813T010919_20150813T011552_B001         CS_OFFL_SIR_GOP_2_20150813T021922_20150813T024656_B001         CS_OFFL_SIR_GOP_2_20150813T024909_20150813T043043_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). e Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected. err land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor	Idior errors raised by the ground-segment processing chain. Idior errors raised by the ground-segment processing chain. Idioty of Auxiliary Data Files is correct. Idioty of Auxiliary Data Files is correct. Description 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 o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records
Jumber 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 tumber of products with errors:         0         5.3 L2 Auxiliary Data File Usage Check         6.ach product is checked for missing Data Set Descriptors with respect to a pre- Vind 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         For all products, the auxiliary corrections within the Geophysical Group are check         Corrently, there are two common auxiliary correction errors raised in the followed by a table highlighting any additional issues which may arise for products over land a sufficient of products with errors:         12         Product         ScoFFL_SIR_GOP_2_20150813T010919_20150813T011552_B001         Sc_SOFFL_SIR_GOP_2_20150813T021922_20150813T043043_B001         Sc_SOFFL_SIR_GOP_2_20150813T042909_20150813T043043_B001         Sc_SOFFL_SIR_GOP_2_20150813T042909_20150813T043043_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). Evel 2 products which are expected due t rom this test. and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide	Idily of Auxiliary Data Files is correct.
Aumber 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 Aumber 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 Vind Model File Usage: This file is currently not included in all L2 products. Aumber 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 Collowed 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 Current of products with errors: 12 Froduct CS_OFFL_SIR_GOP_2_20150813T010919_20150813T011552_B001 CS_OFFL_SIR_GOP_2_20150813T042909_20150813T043043_B001 CS_OFFL_SIR_GOP_2_20150813T042909_20150813T043043_B001 CS_OFFL_SIR_GOP_2_20150813T062514_20150813T070012_B001 CS_OFFL_SIR_GOP_2_20150813T081007_20150813T082243_B001 CS_OFFL_SIR_GOP_2_20150813T081007_20150813T082243_B001 CS_OFFL_SIR_GOP_2_20150813T081007_20150813T082243_B001 CS_OFFL_SIR_GOP_2_20150813T081007_20150813T082243_B001 CS_OFFL_SIR_GOP_2_20150813T081007_	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). e Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor 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. Description There is an error with the Total Geocentric Ocean Tide height (solution 1) FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1) FFES) 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 (solution 1) 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 (solution 1) FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1) FES) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1) FES) for one or more records
Aumber 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 Aumber 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 prevent of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are check         Corr all products, the auxiliary corrections within the Geophysical Group are check         Corrently, there are two common auxiliary correction errors raised in the Golowed 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 Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error: The error value is currently set for products over land a Minetric Wind Speed Error and products over land a Minetric Wind Speed Error and products over land a Minetric Wind Speed Error and products over land a land products over land a land products over land a land product s	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). e Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected. rer land and sea ice, but this is to be expected. Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES)	Idily of Auxiliary Data Files is correct.
Aumber 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 tumber 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 product is checked for missing Data Set Descriptors with respect to a product with errors:         0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked by a table highlighting any additional issues which may arise for bolowed by a table highlighting any additional issues which may arise for a state Bias Error: The error value is currently set for products over land a strumetric Wind Speed Error: The error value is currently set for products over land a strumetric Wind Speed Error: The error value is currently set for products over land a strumetric Sing GOP_2_20150813T010919_20150813T011552_B001         2%_OFFL_SIR_GOP_2_20150813T012922_20150813T024656_B001         2%_OFFL_SIR_GOP_2_20150813T042909_20150813T043043_B001         2%_OFFL_SIR_GOP_2_20150813T042909_20150813T043043_B001         2%_OFFL_SIR_GOP_2_20150813T08107_20150813T070012_B001         2%_OFFL_SIR_GOP_2_20150813T081007_20150813T082243_B001         2%_OFFL_SIR_GOP_2_20150813T081007_20150813T083937_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). E Level 2 products which are expected due t rom this test. and sea ice, but this is to be expected. Test Failed Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES) Total Geocentric Ocean Tide (FES)	Idior errors raised by the ground-segment processing chain. Idior errors raised by the ground-segment processing chain. Idioty of Auxiliary Data Files is correct.  Description 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 o 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 o 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 o 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 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 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) 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

CS_OFFL_SIR_GOP_220150813T195730_20150813T195846_B001	Ledulliprium Long Period Ocean Lide	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_GOP_220150813T210642_20150813T211326_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_GOP_220150813T211730_20150813T213545_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: 0

### 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	

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220150813T002814_20150813T003000_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T003101_20150813T003531_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T021017_20150813T021609_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T034924_20150813T035440_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T052805_20150813T052924_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T052925_20150813T052932_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T052932_20150813T053339_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070304_20150813T070823_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070823_20150813T070829_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070829_20150813T070835_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070836_20150813T070842_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070842_20150813T071126_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T075113_20150813T075520_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T084728_20150813T084734_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T084734_20150813T084740_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T102638_20150813T102650_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T102656_20150813T102705_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T102713_20150813T102819_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T120216_20150813T120547_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T120610_20150813T120938_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T133959_20150813T134501_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T134508_20150813T134836_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T151958_20150813T152533_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T161711_20150813T161718_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T165919_20150813T170428_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T184129_20150813T184331_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T202041_20150813T202240_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T202350_20150813T202743_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T211437_20150813T211549_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T215848_20150813T220644_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T233719_20150813T233929_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T233952_20150813T234532_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

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

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

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

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

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

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220150813T002814_20150813T003000_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T003101_20150813T003531_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T021017_20150813T021609_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070304_20150813T070823_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070829_20150813T070835_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T070842_20150813T071126_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T075113_20150813T075520_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T084734_20150813T084740_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T102656_20150813T102705_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T102713_20150813T102819_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T120216_20150813T120547_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T120610_20150813T120938_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T133959_20150813T134501_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T134508_20150813T134836_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T151958_20150813T152533_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T161711_20150813T161718_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T165919_20150813T170428_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T184129_20150813T184331_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T202041_20150813T202240_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T202350_20150813T202743_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T215848_20150813T220644_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T233719_20150813T233929_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150813T233952_20150813T234532_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: 147