

# IDEAS+ Daily Report for GOP data:

# 05/04/2016



See Section 4.6, 5.6, 5.7 and 5.8

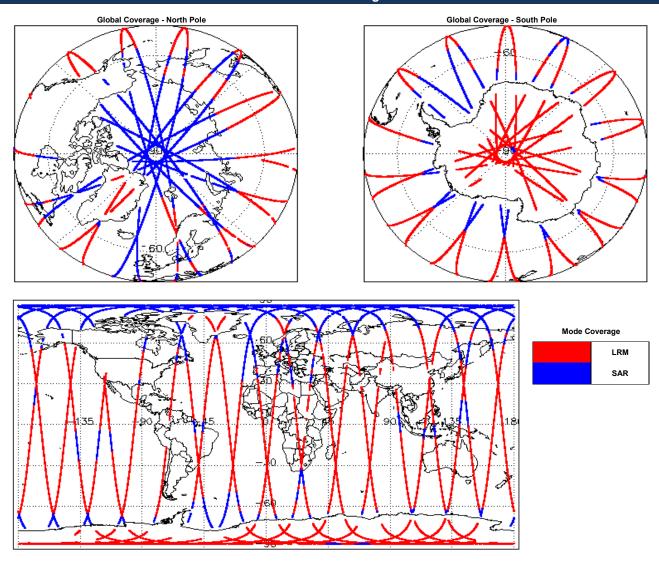
Report Production Date:	05-May-2016	Check	Status
Report Froduction Date.		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used.		Product Software Check	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data	Product Format Check	Nominal
Data Osed:		Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4

1. Overview

Mission / Instrument News		
04-Apr-2016	None	
05-Apr-2016	SIRAL unavailability on 05-April-2016 from 22:11:20 to 06-April 2016 11:32:22 due to a collision avoidance manoeuvre.	
06-Apr-2016	SIRAL unavailability on 05-April-2016 from 22:11:20 to 06-April 2016 11:32:22 due to a collision avoidance manoeuvre.	

Measurement Confidence Data Check

## 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. 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. 0 Number of products with errors:

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 val	idity of Auxiliary Data Files is correct.
lumber of products with errors: 0		
I.4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag (field 60) for each measurem	ent record. The bit value of this flag indicates a	ny problems when set.
lumber of products with errors: 0		
1.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each r	neasurement record. The bit value of this flag ir	ndicates any problems when set.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measureme	ent record. The bit value of this flag indicates ar	y problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
lumber of products with errors: 10		
roduct	Test Failed	Description
S_OFFL_SIR_GOP_1B_20160405T014533_20160405T021349_B001 S_OFFL_SIR_GOP_1B_20160405T032456_20160405T032638_B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_201604051052436_201604051052538_6001	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_GOP_1B_20160405T075748_20160405T075945_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160405T090454_20160405T092020_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20160405T094410_20160405T094849_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20160405T095757_20160405T095920_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20160405T095920_20160405T101108_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20160405T110311_20160405T110411_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20160405T211009_20160405T211502_B001	Loss of Echo	The tracking echo is missing for one or more records
5. G(	OP Level 2 Data Quality Cho	eck
5.1 L2 Product Format Check		
Jumber of products with errors:     0       5.2 L2 Product Header Analysis		
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 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 and Number of products with errors:         0         5.3 L2 Auxiliary Data File Usage Check	I SPH in order to identify any inconsistencies ar	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	I SPH in order to identify any inconsistencies ar	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 preformed Model File Usage: This file is currently not included in all L2 products.	I SPH in order to identify any inconsistencies ar	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 preformed with errors:         0         Wind Model File Usage: This file is currently not included in all L2 products.         Number of products with errors:       0	I SPH in order to identify any inconsistencies ar	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 preformed on the L2 products.         Number of products with errors:       0	I SPH in order to identify any inconsistencies ar	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 pre         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are chemical of the section of the sectio	I SPH in order to identify any inconsistencies an e-determined baseline and also to check the val	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 of products with errors:         Vind 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	I SPH in order to identify any inconsistencies an e-determined baseline and also to check the val cked for the default error value (32767). Level 2 products which are expected due to	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 MPH and Model File Usage: This file is currently not included in all L2 products.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are che Currently, there are two common auxiliary correction errors raised in the	I SPH in order to identify any inconsistencies an e-determined baseline and also to check the val cked for the default error value (32767). Level 2 products which are expected due to om this test.	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 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 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 auxiliary corrections within the Geophysical Group are check         For all products, the auxiliary corrections within the Geophysical Group ar	I SPH in order to identify any inconsistencies an e-determined baseline and also to check the val cked for the default error value (32767). Level 2 products which are expected due to om this test. nd 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 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 preserved 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 and any additional issues which may arise for	I SPH in order to identify any inconsistencies an e-determined baseline and also to check the val cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain.
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 and         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 pre- Vind Model File Usage: This file is currently not included in all L2 products.         umber of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         or all products, the auxiliary corrections within the Geophysical Group are che         urrently, there are two common auxiliary correction errors raised in the         bilowed 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 an         utimetric Wind Speed Error: The error value is currently set for products over land and         utimetric Wind Speed Error: The error value is currently set for products over land and         utimetric Wind Speed Error: The error value is currently set for products over land and         umber of products with errors:       17	I SPH in order to identify any inconsistencies an e-determined baseline and also to check the val cked for the default error value (32767). Level 2 products which are expected due to om this test. nd 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 tumber of products with errors:         0         5.3 L2 Auxiliary Data File Usage Check         5.4 L2 Auxiliary Data File Usage Check         5.4 L2 Auxiliary Data File Usage Check         5.4 L2 Auxiliary Correction Error Check         10         5.4 L2 Auxiliary Correction Error Check         10         11         12         13         14         15         15         16         16         17         17	I SPH in order to identify any inconsistencies and e-determined baseline and also to check the value cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1)	Ind/or errors raised by the ground-segment processing chain. Idity of Auxiliary Data Files is correct. In surface type. All common flags are summarised in the list below, Description There is an error with the MSS height (solution 1) for one or more record
Jumber 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 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 pression of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         or all products, the auxiliary corrections within the Geophysical Group are check         terrently, there are two common auxiliary correction errors raised in the bollowed by a table highlighting any additional issues which may arise for the auxiliary Correction Error Value is currently set for products over land and utimetric Wind Speed Error: The error value is currently set for products over land and utimetric Wind Speed Error: The error value is currently set for products over land and utimetric Wind Speed Error: The error value is currently set for products over land and utimetric Wind Speed Error: The error value is currently set for products over land and utimetric Specific SIR_GOP_2_20160405T000906_20160405T003408_B001	I SPH in order to identify any inconsistencies and also to check the value-determined baseline and also to check the value-determined baseline and also to check the value cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. I Test Failed Mean Sea Surface (1) Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Ind/or errors raised by the ground-segment processing chain. Indicipation in the ground-segment processing chain. Indicipation is a service of the ground
Jumber 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 and tumber 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 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         or all products, the auxiliary corrections within the Geophysical Group are che         currently, there are two common auxiliary correction errors raised in the         bollowed by a table highlighting any additional issues which may arise for         inea State Bias Error: The error value is currently set for products over land an         utimetric Wind Speed Error: The error value is currently set for products over land an         utimetric Wind Speed Error: The error value is currently set for products over land an         utimetric Sign GOP_2_20160405T003906_20160405T003408_B001         cs_OFFL_SIR_GOP_2_20160405T032153_20160405T032341_B001	I SPH in order to identify any inconsistencies ar e-determined baseline and also to check the val cked for the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1) Total Geocentric Ocean Tide (FES), Non-	Ind/or errors raised by the ground-segment processing chain. Idity of Auxiliary Data Files is correct. In a surface type. All common flags are summarised in the list below, Description There is an error with the MSS height (solution 1) for one or more record 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 (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1) There is an error with the Total Geocentric Ocean Tide height (solution 1)
Jumber 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 and tumber 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 prevention of products with errors:         0         5.4 L2 Auxiliary Data File Usage Check         ach product is checked for missing Data Set Descriptors with respect to a prevention of products with errors:         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 the astate Bias Error: The error value is currently set for products over land an utimetric Wind Speed Error: The error value is currently set for products over land an utimetric Wind Speed Error: The error value is currently set for products over land an utimetric Wind Speed Error: The error value is currently set for products over land an utimetric Wind Speed Error: The error value is currently set for products over land an utimetric Wind Speed Error: The error value is currently set for products over land an utimetric Sing GOP_2_20160405T003906_20160405T003408_B001         SS_OFFL_SIR_GOP_2_20160405T032153_20160405T032341_B001         SS_OFFL_SIR_GOP_2_20160405T032456_20160405T032638_B001	I SPH in order to identify any inconsistencies and e-determined baseline and also to check the value of the default error value (32767). Level 2 products which are expected due to om this test. Ind sea ice, but this is to be expected. I Test Failed I Mean Sea Surface (1) I 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)	Ind/or errors raised by the ground-segment processing chain. Idity of Auxiliary Data Files is correct. In a surface type. All common flags are summarised in the list below, Description There is an error with the MSS height (solution 1) for one or more record 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 for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1) FES) for one or 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 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 prestrict of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are che         Corrently, there are two common auxiliary correction errors raised in the pollowed by a table highlighting any additional issues which may arise for         For all products, the error value is currently set for products over land and an additional issues which may arise for	I SPH in order to identify any inconsistencies ar e-determined baseline and also to check the val cked for the default error value (32767). Level 2 products which are expected due to om this test. nd sea ice, but this is to be expected. er land and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. er land and sea surface (1) Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	Ind/or errors raised by the ground-segment processing chain. Idity of Auxiliary Data Files is correct. Index section of the
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 prest vite of products with errors:         0         5.4 L2 Auxiliary Correction Error Check         Cor all products, the auxiliary corrections within the Geophysical Group are check         Cor all products, the auxiliary corrections within the Geophysical Group are checked by a table highlighting any additional issues which may arise for the action of products with errors:         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 the action of products with errors:         Correction Error: The error value is currently set for products over land an utimetric Wind Speed Error: The error value is currently set for products over land an utimetric Wind Speed Error:         Correction       17         Product       25         CoFFL_SIR_GOP_2_20160405T032153_20160405T0320438_B001         CS_OFFL_SIR_GOP_2_20160405T032456_20160405T032638_B001         CS_OFFL_SIR_GOP_2_20160405T032456_20160405T032638_B001         CS_OFFL_SIR_GOP_2_20160405T04005T04204_B001	I SPH in order to identify any inconsistencies ar determined baseline and also to check the val determined baseline and also to check the val	Ind/or errors raised by the ground-segment processing chain.  Ind/or errors raised by the ground-segment processing chain.  Ind/or errors raised by the ground-segment processing chain.  Ind/or example the error error error error frags are summarised in the list below,  Description  There is an error with the MSS height (solution 1) 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 (solution 1)  FES) and the Non-equilibrium Long Period 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  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)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  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)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2)  FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2)  FES) and the Non-equilibrium Long Period Ocean T
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         Each product is checked for missing Data Set Descriptors with respect to a prestrict 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 Golowed by a table highlighting any additional issues which may arise for broducts over land at the formed by a table highlighting any additional issues which may arise for the error value is currently set for products over land at the error is current is the rors:         17       17         reduct       17         reduct       12         S2 OFFL_SIR_GOP_2_20160405T03205_20160405T032048_B001       25         CS_OFFL_SIR_GOP_2_20160405T032456_20160405T032638_B001       25         CS_OFFL_SIR_GOP_2_20160405T044019_20160405T045204_B001       25         CS_OFFL_SIR_GOP_2_20160405T044019_20160405T045204_B001       25	I SPH in order to identify any inconsistencies ar determined baseline and also to check the val determined baseline and also to check the val determined baseline and also to check the val	Ind/or errors raised by the ground-segment processing chain. Ind/or errors raised by the ground-segment processing chain. Indice the second
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         Each product is checked for missing Data Set Descriptors with respect to a prestrict of products 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 products over land at the trons:         10         5.4 L2 Auxiliary Corrections euror value is currently set for products over land at the trons:         11         12         13         14         15         16         16         17         17         18         18         19         19         10         10         11         12         13         14         14         15         16         16         16         17         16         18 </td <td>I SPH in order to identify any inconsistencies ar determined baseline and also to check the val determined baseline and also to check the val determined baseline and also to check the val </td> <td>Indiver errors raised by the ground-segment processing chain. Indiver errors raised by the ground-segment processing chain. Indiversion of the segment of t</td>	I SPH in order to identify any inconsistencies ar determined baseline and also to check the val determined baseline and also to check the val determined baseline and also to check the val	Indiver errors raised by the ground-segment processing chain. Indiver errors raised by the ground-segment processing chain. Indiversion of the segment of t

CS_OFFL_SIR_GOP_220160405T095417_20160405T095623_B001	For Long Period Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220160405T110411_20160405T110857_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_GOP_220160405T122330_20160405T124834_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_220160405T161113_20160405T161228_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_GOP_220160405T180150_20160405T180934_B001	For Formation 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_GOP_220160405T181146_20160405T184521_B001	Fotal Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220160405T211009_20160405T211502_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
CS_OFFL_SIR_GOP_220160405T213716_20160405T214611_B001	Fotal Geocentric Ocean Tide (FES), Non-	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

## 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag (field 14) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. 0

Number of products with errors:

## 5.6 L2 Range Measurement Check

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

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

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

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

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160405T003731_20160405T004108_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T004131_20160405T004457_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T013456_20160405T013730_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T021526_20160405T022022_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T022029_20160405T022358_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T035524_20160405T040053_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T053444_20160405T053950_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T071701_20160405T071854_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T081058_20160405T081332_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T085558_20160405T085805_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T085858_20160405T090307_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T094955_20160405T095047_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T103355_20160405T104208_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T121244_20160405T121447_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T121525_20160405T122041_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T130151_20160405T130256_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T135206_20160405T135259_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T135451_20160405T140056_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T153400_20160405T153927_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T171259_20160405T171404_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T171404_20160405T171407_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T171407_20160405T171816_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T184823_20160405T185301_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T185301_20160405T185307_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T185307_20160405T185314_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T185321_20160405T185704_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T193649_20160405T193947_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T202642_20160405T203159_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T203213_20160405T203218_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T203218_20160405T203231_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_GOP\_2\_\_20160405T203234\_20160405T203412\_B001 CS\_OFFL\_SIR\_GOP\_2\_20160405T220608\_20160405T221110\_B001 Ice Range Averaging Status Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records 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. 26

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160405T003731_20160405T004108_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T004131_20160405T004457_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T013456_20160405T013730_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T021526_20160405T022022_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T022029_20160405T022358_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T035524_20160405T040053_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T053444_20160405T053950_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T071701_20160405T071854_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T081058_20160405T081332_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T085558_20160405T085805_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T085858_20160405T090307_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T094955_20160405T095047_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T103355_20160405T104208_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T121244_20160405T121447_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T121525_20160405T122041_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T130151_20160405T130256_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T135206_20160405T135259_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T135451_20160405T140056_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T153400_20160405T153927_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T171407_20160405T171816_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T184823_20160405T185301_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T185321_20160405T185704_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T202642_20160405T203159_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T203213_20160405T203218_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T203218_20160405T203231_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160405T203234_20160405T203412_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:

140