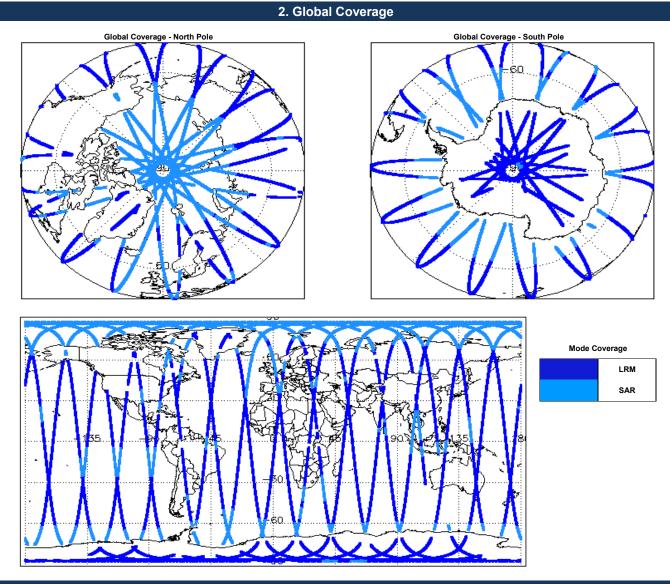


IDEAS Daily Report for GOP data:

<u>02/07/2015</u>

eport Production Date:	30-Jul-2015	Check	Status
Report Production Date.		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)	Product Format Check	Nominal
	L1B and L2 Science Data	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

Mission / Instrument News		
01-Jul-2015	None	
02-Jul-2015	None	
03-Jul-2015	Nothing planned	



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. 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-determined baseline and also to check the validity 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 measurement r Number of products with errors: 0	ecord. The bit value of this flag indicates ar	ly problems when set.			
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement	urement record. The bit value of this flag ir	dicates 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 measurement record. The bit value of this flag indicates any problems when set.					
Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.					
Number of products with errors: 12					
Product	Test Failed	Description			
CS_OFFL_SIR_GOP_1B_20150702T004037_20150702T004256_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T021022_20150702T021431_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T051711_20150702T051812_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T065532_20150702T065719_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T065914_20150702T070445_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T085529_20150702T093115_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T103423_20150702T105332_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T105535_20150702T111012_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T115944_20150702T120035_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T173942_20150702T174216_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T210242_20150702T210940_B001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_GOP_1B_20150702T235327_20150702T235436_B001	Loss of Echo	The tracking echo is missing for one or more records			
5. GOP	Level 2 Data Quality Che	eck			
5.1 L2 Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ensur	re it consists of both an XML header file (.H	DR) and a product file (.DBL).			
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 SP	H in order to identify any inconsistencies ar	d/or errors raised by the ground-segment processing chain.			
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.					
Number of products with errors: 0					
5.3 L2 Auxiliary Data File Usage Check					
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det	ermined baseline and also to check the val	dity of Auxiliary Data Files is correct.			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products.	ermined baseline and also to check the val	dity of Auxiliary Data Files is correct.			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det	ermined baseline and also to check the val	dity of Auxiliary Data Files is correct.			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products.	ermined baseline and also to check the val	dity of Auxiliary Data Files is correct.			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0		dity of Auxiliary Data Files is correct.			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products with an analysis of the set of	p flagged as missing or containing errors.				
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withighlighting any additional issues arising from this test.	up flagged as missing or containing errors. hich are expected due to surface type. A				
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products within the field in all sciences arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and set	ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected.				
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withighlighting any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and sea Altimetric Wind Speed Error Flag: This flag is currently set for products over land	ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected.				
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products within the field in all sciences arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and set	ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected.				
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withighlighting any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and sea Altimetric Wind Speed Error Flag: This flag is currently set for products over land	ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected.				
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products with inghilghting any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and sea Altimetric Wind Speed Error Flag: This flag is currently set for products over land. Number of products with errors: 16	Ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected. I and sea ice, but this is to be expected.	Il common flags are summarised in the list below, followed by a table Description There is an error with the MSS height (solution 1) for one or more records			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withinghighting any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and seat Altimetric Wind Speed Error Flag: This flag is currently set for products over land Number of products with errors: 16 Product	Ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected. I and sea ice, but this is to be expected. Test Failed	Il common flags are summarised in the list below, followed by a table			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products within the flag. Sea State Bias Error Flag: This flag is currently set for products over land and sea Altimetric Wind Speed Error Flag: This flag is currently set for products over land Number of products with errors: 16 Product CS_OFFL_SIR_GOP_2_20150702T044920_20150702T045422_B001	Ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected. I and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1) Total Geocentric Ocean Tide (FES), Non-	Il common flags are summarised in the list below, followed by a table 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 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withing any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and set Altimetric Wind Speed Error Flag: This flag is currently set for products over land. Number of products with errors: 16 Product Cs_OFFL_SIR_GOP_2_20150702T044920_20150702T045422_B001 Cs_OFFL_SIR_GOP_2_20150702T051711_20150702T051812_B001 11	Ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected. I and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1) Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-	Il common flags are summarised in the list below, followed by a table 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 2: 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 Tide height for one or more records 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 There is an error with the Total Geocentric 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 Tide height (solution 2: 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 Tide height (solution 2: 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 Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withighlighting any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and sea Altimetric Wind Speed Error Flag: This flag is currently set for products over land Number of products with errors: 16 Product CS_OFFL_SIR_GOP_2_20150702T044920_20150702T045422_B001 CS_OFFL_SIR_GOP_2_20150702T051711_20150702T051812_B001 CS_OFFL_SIR_GOP_2_20150702T051838_20150702T052244_B001	Ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected. I and sea ice, but this is to be expected. Test Failed Mean 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 Total Geocentric Ocean Tide (FES), Non-	Il common flags are summarised in the list below, followed by a table 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 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: 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 2: 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 Tide height (solution 2: 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 Tide height (solution 2: 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 Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withighlighting any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and sea Altimetric Wind Speed Error Flag: This flag is currently set for products over land Number of products with errors: 16 Product CS_OFFL_SIR_GOP_2_20150702T044920_20150702T045422_B001 CS_OFFL_SIR_GOP_2_20150702T051711_20150702T051812_B001 CS_OFFL_SIR_GOP_2_20150702T051838_20150702T052244_B001 CS_OFFL_SIR_GOP_2_20150702T051838_20150702T055719_B001 CS_OFFL_SIR_GOP_2_20150702T055532_20150702T065719_B001	Ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected. I and sea ice, but this is to be expected. Test Failed Mean 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 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-	Il common flags are summarised in the list below, followed by a table 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 2: 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 Tide height (solution 2: 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 Tide height (solution 2: 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 2: 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 Tide height (solution 2: 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 Tide height (solution 2: 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 Tide height (solution 2: 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 Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records			
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pre-det Wind Model File Usage: This file is currently not included in all L2 products. Number of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Each product is checked to detect auxiliary corrections within the Geophysical Grout Currently, there are two common error flags raised in the Level 2 products withightighting any additional issues arising from this test. Sea State Bias Error Flag: This flag is currently set for products over land and sea Altimetric Wind Speed Error Flag: This flag is currently set for products over land Number of products with errors: 16 Product CS_OFFL_SIR_GOP_2_20150702T044920_20150702T045422_B001 CS_OFFL_SIR_GOP_2_20150702T051818_20150702T052244_B001 CS_OFFL_SIR_GOP_2_20150702T051838_20150702T052244_B001 CS_OFFL_SIR_GOP_2_20150702T065532_20150702T065719_B001 CS_OFFL_SIR_GOP_2_20150702T065532_20150702T093115_B001	Ip flagged as missing or containing errors. hich are expected due to surface type. A a ice, but this is to be expected. I and sea ice, but this is to be expected. I and sea ice, but this is to be expected. 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), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Non-	Il common flags are summarised in the list below, followed by a table 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 2: 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 Tide height (solution 2: 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 Tide height (solution 2: 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 (solution 2: 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 necords There is an error with the Total Geocentric Ocean Tide height for one or more necords There is an error with the Total Geocentric Ocean Tide height for one or more more records There is an error with the Total Geocentric Ocean Tide height for one or more more records There is an error with the Total Geocentric Ocean Tide height for one or more more records There is an error with the Total Geocentric Ocean Tide height for one or more more records There is an error with the Total Geocentric Ocean Tide height for one or more more records There is an error with the Total Geocentric Ocean Tide height for one or more more records There is an error with the Total Geocentric Ocean Tide height for one or more m			

CS_OFFL_SIR_GOP_220150702T114417_20150702T115654_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_220150702T174216_20150702T174351_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_220150702T185337_20150702T185518_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_220150702T212147_20150702T213828_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_220150702T222714_20150702T222928_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220150702T222928_20150702T224409_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_2_20150702T233741_20150702T233914_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220150702T235436_20150703T000514_B001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Range Measurement Check

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

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

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

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

0

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220150702T011929_20150702T012804_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T025856_20150702T030025_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T030142_20150702T030601_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T044055_20150702T044640_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T062000_20150702T062511_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T075813_20150702T075959_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T075959_20150702T080006_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T080006_20150702T080418_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T084553_20150702T084631_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T093858_20150702T093904_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T093904_20150702T093910_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T093917_20150702T094132_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T102458_20150702T102547_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T111302_20150702T111756_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T111756_20150702T111802_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T111802_20150702T111809_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T111809_20150702T111815_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T111815_20150702T111826_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T111833_20150702T111951_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T125235_20150702T125709_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T125747_20150702T125903_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T143236_20150702T143623_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T143645_20150702T144010_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T161048_20150702T161537_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T161543_20150702T161912_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T175041_20150702T175606_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T193006_20150702T193504_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T211216_20150702T211408_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220150702T220613_20150702T220906_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T225109_20150702T225320_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T225405_20150702T225822_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T234514_20150702T234553_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 22

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220150702T011929_20150702T012804_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T025856_20150702T030025_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T030142_20150702T030601_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T044055_20150702T044640_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T062000_20150702T062511_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T080006_20150702T080418_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T084553_20150702T084631_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T093917_20150702T094132_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T102458_20150702T102547_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T125235_20150702T125709_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T125747_20150702T125903_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T143236_20150702T143623_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T143645_20150702T144010_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T161048_20150702T161537_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T161543_20150702T161912_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T175041_20150702T175606_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T193006_20150702T193504_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T211216_20150702T211408_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T220613_20150702T220906_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T225109_20150702T225320_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220150702T225405_20150702T225822_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20150702T234514_20150702T234553_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:

158