

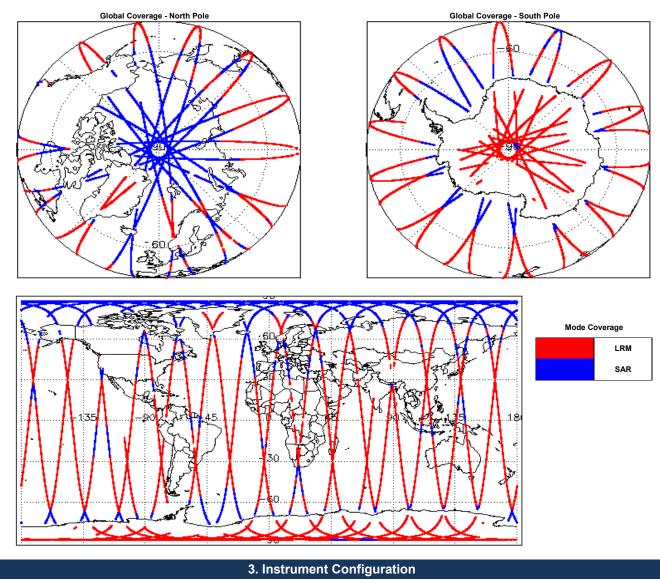
# IDEAS+ Daily Report for GOP data:

# <u>15/04/2016</u>

eport Production Date:	16-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
		Product Software Check	Nominal
Deta Usadi	Geophysical Ocean Products (GOP) L1B and L2 Science Data	Product Format Check	Nominal
Data Used:		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

117 pr 2010	
15-Apr-2016	
16-Apr-2016	Nothing planned





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-de	etermined baseline and also to check the val	idity 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	record. The bit value of this flag indicates a	ny problems when set.	
Number of products with errors: 0	<b>°</b>		
4.5.1.4.P. Maggurgement Confidence Data Chaok			
4.5 L1B Measurement Confidence Data Check			
CryoSat L1B data includes a measurement confidence flag (field 12) for each mea	asurement record. The bit value of this flag in	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 measurement	record. The bit value of this flag indicates ar	ny 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 CS OFFL SIR GOP 1B 20160415T012256 20160415T012526 B001	Test Failed	Description	
CS_OFFL_SIR_GOP_1B_201604151012236_201604151012326_B001 CS_OFFL_SIR_GOP_1B_20160415T013118_20160415T020151_B001	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_20160415T031248_20160415T031421_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T093855_20160415T094045_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T094256_20160415T094408_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T124916_20160415T125039_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T125105_20160415T125616_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T143005_20160415T143808_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T155550_20160415T155942_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T174441_20160415T174632_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T210749_20160415T211434_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160415T221042_20160415T222916_B001	Loss of Echo	The tracking echo is missing for one or more records	
5. GOP Level 2 Data Quality Check			
5. GOI	- Level 2 Data Quality Ch	eck	
	Cever 2 Data Quality Ch	eck	
5.1 L2 Product Format Check			
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens			
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         Number of products with errors:       0			
5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to ens			
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         Number of products with errors:       0	ure it consists of both an XML header file (.h	IDR) and a product file (.DBL).	
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         Number of products with errors:       0         5.2 L2 Product Header Analysis	ure it consists of both an XML header file (.h	IDR) and a product file (.DBL).	
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         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 Si	ure it consists of both an XML header file (.h	IDR) and a product file (.DBL).	
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5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         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 Size         Number of products with errors:       0	ure it consists of both an XML header file (.P	IDR) and a product file (.DBL). nd/or errors raised by the ground-segment processing chain.	
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5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         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 Si         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-defined wind Model File Usage: This file is currently not included in all L2 products.         Number of products with errors:       0	ure it consists of both an XML header file (.P	IDR) and a product file (.DBL). nd/or errors raised by the ground-segment processing chain.	
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5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         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 St         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-de         Wind Model File Usage: This file is currently not included in all L2 products.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked         Currently, there are two common auxiliary correction errors raised in the Lepton	ure it consists of both an XML header file (.P PH in order to identify any inconsistencies ar etermined baseline and also to check the val ed for the default error value (32767). vel 2 products which are expected due to this test.	IDR) and a product file (.DBL). nd/or errors raised by the ground-segment processing chain. idity of Auxiliary Data Files is correct.	
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5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         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 Si         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-de         Wind Model File Usage: This file is currently not included in all L2 products.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked.         Currently, there are two common auxillary correction errors raised in the Let followed by a table highlighting any additional issues which may arise from         Sea State Bias Error: The error value is currently set for products over land and Altimetric Wind Speed Error: The error value is currently set for products over land and Altimetric Wind Speed Error: The error value is currently set for products over land and Chimetric Wind Speed Error: The error value is currently set for products over land and Chimetric Wind Speed Error: The error value is currently set for products over land and Chimetric Wind Speed Error: The error value is currently set for products over land and Chimetric Wind Speed Error: The error value is Currently set for products over land and Chimetric Wind Speed Error: The error value is Currently set for products over land and Chimetric Wind Speed Error	ure it consists of both an XML header file (.F PH in order to identify any inconsistencies an etermined baseline and also to check the val etermined baseline and also to check the val attribution baseline and also to check the val etermined baseline and also to check the val etermined baseline and also to check the val etermined baseline and also to check the val attribution baseline and also to check the val etermined baseline and also to check the val etermined baseline and also to check the val attribution baseline and also to check the val etermined baseline and also to check the val etermined baseline and also to check the val etermined baseline and also to check the val attribution baseline and also to check the val etermined	IDR) and a product file (.DBL).  Ind/or errors raised by the ground-segment processing chain.  Idity of Auxiliary Data Files is correct.  Description  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 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 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	
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ens         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 Si         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-de         Wind Model File Usage: This file is currently not included in all L2 products.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked         Currently, there are two common auxiliary correction errors raised in the Lefollowed by a table highlighting any additional issues which may arise from         Sea State Bias Error: The error value is currently set for products over land and         Altimetric Wind Speed Error: The error value is currently set for products over land and         Number of products with errors:       16         Product       CS_OFFL_SIR_GOP_2_20160415T010432_20160415T010456_B001         CS_OFFL_SIR_GOP_2_20160415T010432_20160415T010456_B001       CS_OFFL_SIR_GOP_2_20160415T010432_20160415T010456_B001	ure it consists of both an XML header file (.F PH in order to identify any inconsistencies ar etermined baseline and also to check the val etermined baseline and also to check the val set of the default error value (32767). Non etermined baseline and also to check the val etermined baseline	IDR) and a product file (.DBL). Ind/or errors raised by the ground-segment processing chain. Idity of Auxiliary Data Files is correct. Idity of Auxiliary Data Files is correct. Description There is an error with the 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 for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records	
5.1 L2 Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ensign 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 Sign 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-defined Model File Usage: This file is currently not included in all L2 products.         Number of products with errors:       0         5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are checked for maxiliary correction errors raised in the Lefe followed by a table highlighting any additional issues which may arise from Sea State Bias Error: The error value is currently set for products over land and Altimetric Wind Speed Error: The error value is currently set for products over land and Altimetric Wind Speed Error: The error value is currently set for products over land and Altimetric Wind Speed Error: The error value is currently set for products over land and Altimetric Gorp.2_20160415T010432_20160415T010456_B001         CS_OFFL_SIR_GOP_2_20160415T012256_20160415T012526_B001         CS_OFFL_SIR_GOP_2_20160415T012339_20160415T072946_B001	ure it consists of both an XML header file (.H PH in order to identify any inconsistencies an atermined baseline and also to check the val etermined baseline	IDR) and a product file (.DBL).         Ind/or errors raised by the ground-segment processing chain.         idity of Auxiliary Data Files is correct.         idity of Auxiliary Data Files is correct.         Description         There is an error with the 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 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 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 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-eq	

CS\_OFFL\_SIR\_GOP\_2\_\_20160415T124916\_20160415T125039\_B001

CS\_OFFL\_SIR\_GOP\_2\_\_20160415T113046\_20160415T115753\_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

 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide

CS_OFFL_SIR_GOP_220160415T160146_20160415T160319_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_220160415T192414_20160415T192736_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_220160415T193824_20160415T194149_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_220160415T194149_20160415T195027_B001	Lotal Geocentric Ocean Lide (EES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220160415T205719_20160415T205851_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_220160415T210749_20160415T211434_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_220160415T211947_20160415T213527_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_220160415T225206_20160415T225301_B001	LIOTAL GEOCENTRIC UCEAN LIDE (FES)	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) 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. 37

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160415T002459_20160415T002856_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T002900_20160415T002910_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T002916_20160415T003241_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T012256_20160415T012526_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T020325_20160415T020809_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T020814_20160415T021145_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T034314_20160415T034837_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T052241_20160415T052735_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T062345_20160415T062836_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T070448_20160415T070641_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T071019_20160415T071026_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T075841_20160415T080146_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T084338_20160415T084553_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T084633_20160415T085052_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T102129_20160415T102957_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T120033_20160415T120228_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T120319_20160415T120807_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T125105_20160415T125616_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T134001_20160415T134026_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T134239_20160415T134836_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T152146_20160415T152706_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T170037_20160415T170148_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T170149_20160415T170155_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T170155_20160415T170602_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T183542_20160415T184046_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T184047_20160415T184052_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T184053_20160415T184059_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T184107_20160415T184412_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T192414_20160415T192736_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T201437_20160415T201944_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220160415T201945_20160415T201951_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T201958_20160415T202004_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T202004_20160415T202016_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T202022_20160415T202150_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T215355_20160415T215355_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T215920_20160415T215929_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T215936_20160415T215929_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20160415T215936_20160415T22038_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20160415T233813_20160415T233812_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20160415T233813_20160415T233812_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20160415T233813_20160415T233812_B001Ice Range Averaging Status			
CS_OFFL_SIR_GOP_2201604151201938_20160415120204_8001Ice Range Averaging Statusrecords.CS_OFFL_SIR_GOP_220160415T202022_20160415T202016_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T202022_20160415T202022_20160415T2055_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T215355_20160415T215855_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T215920_20160415T215929_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T215936_20160415T220038_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T233433_20160415T233812_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T233818_20160415T233812_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T233818_20160415T233812_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T233818_20160415T233812_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_220160415T233818_20160415T233812_B001Ice Range Averaging StatusThe Ice Range Averaging Status Flag has been se	CS_OFFL_SIR_GOP_220160415T201945_20160415T201951_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2201604151202004_201604151202016_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T215355_20160415T215855_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T215920_20160415T215929_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T215920_20160415T215929_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T215936_20160415T220038_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233433_20160415T233812_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233818_20160415T233812_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233818_20160415T233812_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233818_20160415T233827_B001       Ice Range Averaging Status       The loc Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_22016041	CS_OFFL_SIR_GOP_220160415T201958_20160415T202004_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2201604151202022_20160415120585_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T215920_20160415T215929_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T215920_20160415T215929_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T215936_20160415T220038_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233433_20160415T233812_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233818_20160415T233827_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233818_20160415T233827_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233838_20160415T233827_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_220160415T233833_20160415T233832       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160415T202004_20160415T202016_B001	Ice Range Averaging Status	0 0 0
CS_OFFL_SIR_GOP_2201604151215335_201604151215929_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T215936_20160415T220038_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233433_20160415T233812_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233818_20160415T233812_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233818_20160415T233827_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233838_20160415T233827_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233833_20160415T233827_B001       Ice Range Averaging Status       The lce Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233833_20160415	CS_OFFL_SIR_GOP_220160415T202022_20160415T202150_B001	Ice Range Averaging Status	0 0 0
CS_OFFL_SIR_GOP_2_201604151215920_201604151215929_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_GOP_2_20160415T215936_20160415T220038_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233433_20160415T233812_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233818_20160415T233827_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233818_20160415T233827_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233833_20160415T233827_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233833_20160415T233832       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160415T215355_20160415T215855_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20160415123936_201604151220038_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_GOP_2_20160415T233433_20160415T233812_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233818_20160415T233827_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233818_20160415T233827_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2_20160415T233833_20160415T234140_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220160415T215920_20160415T215929_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2201604151233813_201604151233812_B001       Ice Range Averaging Status       records.         CS_OFFL_SIR_GOP_2201604157233818_201604157233827_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_GOP_2201604157233813_201604157233827_B001       Ice Range Averaging Status       The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_GOP_220160415T215936_20160415T220038_B001	Ice Range Averaging Status	0 0 0
CS_OFFL_SIR_GOP_2_201604151233818_201604151233827_B001 ICe Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOP_220160415T233433_20160415T233812_B001	Ice Range Averaging Status	
US DEEL SIR GOP Z. 201604151233833 201604151234140 BU01 CCE Range Averaging Status	CS_OFFL_SIR_GOP_220160415T233818_20160415T233827_B001	Ice Range Averaging Status	0 0 0
	CS_OFFL_SIR_GOP_220160415T233833_20160415T234140_B001	Ice Range Averaging Status	

#### 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. 30

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20160415T002459_20160415T002856_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T002916_20160415T003241_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T012256_20160415T012526_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T020325_20160415T020809_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T020814_20160415T021145_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T034314_20160415T034837_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T052241_20160415T052735_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T062345_20160415T062836_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T070448_20160415T070641_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T071019_20160415T071026_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T075841_20160415T080146_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T084338_20160415T084553_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T084633_20160415T085052_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T102129_20160415T102957_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T120033_20160415T120228_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T120319_20160415T120807_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T125105_20160415T125616_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T134001_20160415T134026_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T134239_20160415T134836_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T152146_20160415T152706_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T170037_20160415T170148_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T170155_20160415T170602_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T183542_20160415T184046_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T184053_20160415T184059_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T184107_20160415T184412_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T202022_20160415T202150_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T215355_20160415T215855_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T215936_20160415T220038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T233433_20160415T233812_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160415T233833_20160415T234140_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.

155

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: