

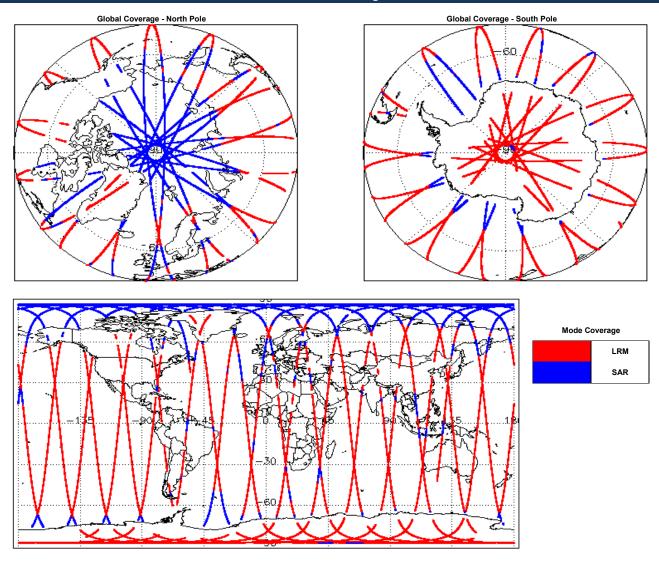
IDEAS+ Daily Report for GOP data:

<u>06/02/2016</u>

Report Production Date:	04-Mar-2016	Check	Status
		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	Geophysical Ocean Products (GOP) L1B and L2 Science Data	Product Format Check	Nominal
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

05-Feb-2010	None
06-Feb-2016	
07-Feb-2016	Nothing planned

2. Global Coverage



3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

4. 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			
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 measurem	ent record. The bit value of this	flag indicates any problems when set.	
Number of products with errors: 0			
4.5 L1B Measurement Confidence Data Check			
CryoSat L1B data includes a measurement confidence flag (field 12) for each r	neasurement record. The bit va	lue of this flag indicates 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	ent 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: 13			
Product	Test Failed	Description	
CS_OFFL_SIR_GOP_1B_20160206T000218_20160206T001024_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T013016_20160206T013401_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T015118_20160206T015734_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T032940_20160206T033842_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T051450_20160206T051618_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T082415_20160206T083354_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T092646_20160206T095859_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T110615_20160206T113520_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T150125_20160206T150915_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T165756_20160206T173020_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160206T182042_20160206T182124_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS OFFL SIR GOP 1B 20160206T182315 20160206T183104 B001	Loss of Echo	The tracking echo is missing for one or more records	

5. GOP Level 2 Data Quality Check

The tracking echo is missing for one or more records

5.1 L2 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

5.2 L2 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

Loss of Echo

5.3 L2 Auxiliary 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.

Wind Model File Usage: This file is currently not included in all L2 products.

CS_OFFL_SIR_GOP_1B_20160206T213751_20160206T213829_B001

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are two common auxiliary correction errors 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.

Sea State Bias Error: The error value is currently set for products over land and sea ice, but this is to be expected.

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Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160206T001241_20160206T001932_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_220160206T002950_20160206T004014_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_220160206T013525_20160206T014234_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_220160206T015118_20160206T015734_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_220160206T033842_20160206T033941_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_220160206T054840_20160206T055512_B001	Mean Sea Surface (2)	There is an error with the MSS height (solution 2) for one or more records
CS_OFFL_SIR_GOP_220160206T082210_20160206T082336_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_220160206T092646_20160206T095859_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_220160206T110615_20160206T113520_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_220160206T180755_20160206T180929_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_220160206T200251_20160206T201406_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_220160206T202544_20160206T204800_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_220160206T210119_20160206T212820_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_220160206T215456_20160206T222656_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220160206T232809_20160206T232906_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. 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. 29

Number of products with errors:

CS_OFFL_SIR_GOP_2_20160206T005840_20160206T010342_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T010343_20160206T010349_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T010349_20160206T010400_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010400_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010520_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T023901_20160206T024259_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T023901_20160206T024259_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more or more or more or more
CS_OFFL_SIR_GOP_2_20160206T010343_20160206T010409_B001 Ice Range Averaging Status records. CS_OFFL_SIR_GOP_2_20160206T010349_20160206T010400_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010520_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010520_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records. CS_OFFL_SIR_GOP_2_20160206T010206T010520_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more or more or more
CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010520_B001 lice Range Averaging Status records. CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010520_B001 lice Range Averaging Status The lice Range Averaging Status CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010520_B001 lice Range Averaging Status The lice Range Averaging Status CS_OFFL_SIR_GOP_2_20160206T010406_20160206T010520_B001 lice Range Averaging Status The lice Range Averaging Status	or more or more
CS_OFFL_SIR_GOP_2_201602061010406_201602061010520_6001 lice Range Averaging Status records. The Ice Range Averaging Status Flag has been set for one	or more
	or more
CS_OFFL_SIR_GOP_2_20160206T024320_20160206T024534_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	
CS_OFFL_SIR_GOP_2_20160206T041649_20160206T042212_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T042219_20160206T042544_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T055649_20160206T060450_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T073624_20160206T074138_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T091754_20160206T092039_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T105751_20160206T105946_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T110200_20160206T110443_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T115146_20160206T115538_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T123629_20160206T123903_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T123925_20160206T124351_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T141414_20160206T142304_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T155344_20160206T155521_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T155631_20160206T160054_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T173545_20160206T174132_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T191450_20160206T192003_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T205319_20160206T205450_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T205451_20160206T205457_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T222823_20160206T223349_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T223349_20160206T223355_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T223355_20160206T223401_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T223408_20160206T223636_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T231646_20160206T231724_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more
CS_OFFL_SIR_GOP_2_20160206T231911_20160206T232047_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one records.	or more

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 25

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160206T010343_20160206T010349_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T010349_20160206T010400_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T010406_20160206T010520_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T023901_20160206T024259_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T024320_20160206T024534_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T041649_20160206T042212_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T042219_20160206T042544_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T055649_20160206T060450_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T073624_20160206T074138_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T091754_20160206T092039_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T105751_20160206T105946_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T110200_20160206T110443_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T115146_20160206T115538_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T123629_20160206T123903_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T123925_20160206T124351_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T141414_20160206T142304_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T155344_20160206T155521_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T155631_20160206T160054_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T191450_20160206T192003_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T205319_20160206T205450_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T222823_20160206T223349_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160206T223349_20160206T223355_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T223355_20160206T223401_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T223408_20160206T223636_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160206T231911_20160206T232047_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.

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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: