

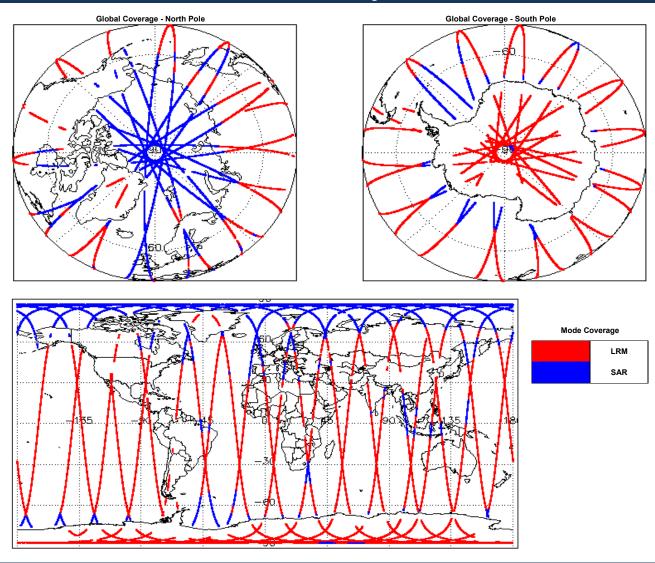
# IDEAS+ Daily Report for GOP data:

# <u>24/02/2016</u>

Report Production Date:	24-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)	Product Format Check	Nominal
Data Used:	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

23-Feb-2016	None
24-Feb-2016	None
25-Feb-2016	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 v	alidity 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 measureme	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 m	neasurement record. The bit value 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 measureme	ent record. The bit value of this flag indicates a	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: 8			
Product	Test Failed	Description	
CS_OFFL_SIR_GOP_1B_20160224T000213_20160224T001408_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160224T030716_20160224T031706_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160224T063246_20160224T063345_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160224T064145_20160224T064509_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160224T090526_20160224T093500_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160224T094401_20160224T094932_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160224T180107_20160224T180854_B001	Loss of Echo	The tracking echo is missing for one or more records	
CS_OFFL_SIR_GOP_1B_20160224T194125_20160224T194909_B001	Loss of Echo	The tracking echo is missing for one or more records	
5. GC	OP Level 2 Data Quality Ch	neck	
5.1 L2 Product Format Check			
Each product, retrieved and unpacked from the science server, is checked to e	nsure it consists of both an XML beader file (	HDP) and a product file ( DBI )	
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 a	and/or errors raised by the ground-segment processing chain.	
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	-determined baseline and also to check the v	alidity of Auxiliary Data Files is correct.	
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 cher	cked for the default error value (32767).		
Currently, there are two common auxiliary correction errors raised in the		to surface type. All common flags are summarised in the list below,	
followed by a table highlighting any additional issues which may arise fro			
Sea State Bias Error: The error value is currently set for products over land an	nd sea ice, but this is to be expected.		
Altimetric Wind Speed Error: The error value is currently set for products over	er land and sea ice, but this is to be expected.		
Number of products with errors: 18			
Product	Test Failed	Description	
CS_OFFL_SIR_GOP_220160224T012155_20160224T012425_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), No Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: n-GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records	
CS_OFFL_SIR_GOP_220160224T012425_20160224T012502_B001	Total Geocentric Ocean Tide (GOT),	There is an error with the Total Geocentric Ocean Tide height (solution 1: n-GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records	
CS_OFFL_SIR_GOP_220160224T013454_20160224T013556_B001	Total Geocentric Ocean Tide (FES), No Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2)	
CS_OFFL_SIR_GOP_220160224T063545_20160224T063921_B001	Total Geocentric Ocean Tide (FES), No Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2:	
CS_OFFL_SIR_GOP_220160224T064824_20160224T071255_B001	Total Geocentric Ocean Tide (FES), No Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2	
CS_OFFL_SIR_GOP_220160224T081357_20160224T082411_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_220160224T110209_20160224T111133_B001	Total Geocentric Ocean Tide (FES), No 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_220160224T113316_20160224T113718_B001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), No Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1:	
CS_OFFL_SIR_GOP_220160224T124023_20160224T124728_B001	Total Geocentric Ocean Tide (FES), No Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 2)	

CS\_OFFL\_SIR\_GOP\_2\_20160224T143908\_20160224T144127\_B001

Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

CS_OFFL_SIR_GOP_220160224T154144_20160224T161000_B001	Geoid Height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_220160224T175359_20160224T175726_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_220160224T180107_20160224T180854_B001	Leaulinprium Long Period Ocean Lide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_220160224T193134_20160224T193740_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_220160224T195127_20160224T202514_B001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_GOP_220160224T213342_20160224T214223_B001	Geoid height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_220160224T214223_20160224T214703_B001	Geoid height	There is an error with the Geoid height for one or more records
CS_OFFL_SIR_GOP_220160224T222249_20160224T223520_B001	Leaulinprium Long Period Ocean Lide	There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

## 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. 33

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160224T003636_20160224T004136_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T004136_20160224T004143_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T004201_20160224T004210_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T004218_20160224T004322_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T021719_20160224T022052_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T022100_20160224T022108_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T022114_20160224T022434_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T035501_20160224T040006_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T040013_20160224T040341_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T053500_20160224T054038_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T054144_20160224T054240_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T071424_20160224T071933_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T085629_20160224T085835_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T103546_20160224T103744_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T103902_20160224T104246_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T112942_20160224T113105_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T121359_20160224T122148_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T135222_20160224T135434_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T135449_20160224T140040_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T153144_20160224T153259_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T153432_20160224T153855_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T185246_20160224T185757_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T203019_20160224T203244_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T203251_20160224T203702_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T211729_20160224T211928_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T220624_20160224T221143_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T221144_20160224T221149_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T221156_20160224T221202_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T221202_20160224T221406_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T234549_20160224T235054_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220160224T235055_20160224T235100_B002	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T235101_20160224T235112_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T235118_20160224T235234_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. 26

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220160224T004218_20160224T004322_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T021719_20160224T022052_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T022100_20160224T022108_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T022114_20160224T022434_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T035501_20160224T040006_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T040013_20160224T040341_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T053500_20160224T054038_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T054144_20160224T054240_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T071424_20160224T071933_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T085629_20160224T085835_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T103546_20160224T103744_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160224T103902_20160224T104246_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T121359_20160224T122148_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160224T135222_20160224T135434_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T135449_20160224T140040_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T153144_20160224T153259_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T153432_20160224T153855_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T185246_20160224T185757_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T203019_20160224T203244_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160224T203251_20160224T203702_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T211729_20160224T211928_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20160224T220624_20160224T221143_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T221156_20160224T221202_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T221202_20160224T221406_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T234549_20160224T235054_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220160224T235118_20160224T235234_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: