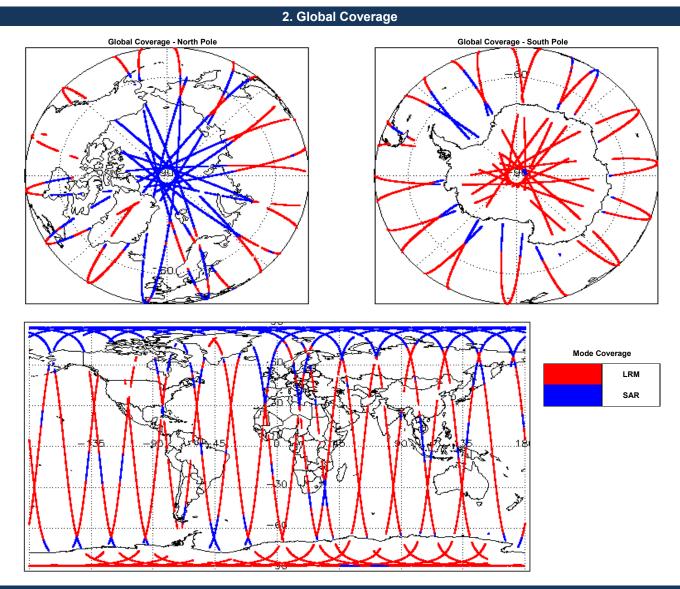


IDEAS+ Daily Report for GOP data:

<u>18/02/2017</u>

1. Overview				
Report Production Date:	20-Mar-2017	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	
		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 / Instru	Mission / Instrument News		
17-Feb-2017	None		
18-Feb-2017	None		
19-Feb-2017	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-	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
Number of products with errors: 0		
I.4 L1B Auxiliary Correction Error Check		
ryoSat L1B data includes a correction error flag (field 60) for each measurem	ent record. The bit value of this flag indicates a	ny problems when set.
lumber of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each r	measurement record. The bit value of this flag i	ndicates any problems when set.
Number of products with errors: 0		
1.6 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	ny problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is	-	
lumber of products with errors: 9		
roduct	Test Failed	Description
S_OFFL_SIR_GOP_1B_20170218T053345_20170218T053537_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170218T061207_20170218T061346_B001 S_OFFL_SIR_GOP_1B_20170218T090120_20170218T091054_B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170218T104638_20170218T105109_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170218T121734_20170218T122733_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170218T140751_20170218T141516_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170218T190716_20170218T190938_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170218T203546_20170218T203642_B001 S_OFFL_SIR_GOP_1B_20170218T235226_20170218T235313_B001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
5. G(OP Level 2 Data Quality Ch	eck
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML beader file ()	HDR) and a product file (DRI)
Letter presented and anpuoted norm the colonice deriver, is checked to t		
Number of products with errors: 0		
Number of products with errors: 0 5.2 L2 Product Header Analysis	·	
Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and	·	
Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and Number of products with errors: 0	·	
Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and Number of products with errors: 0	·	
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Jumber of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and Jumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a preserved on the MPH and Jumber of File Usage: This file is currently not included in all L2 products.	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
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Aumber of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and Aumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a preformed of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check For all products, the auxiliary corrections within the Geophysical Group are check Currently, there are two common auxiliary correction errors raised in the ollowed by a table highlighting any additional issues which may arise for an analysis of the section of the	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). • Level 2 products which are expected due t on this test.	nd/or errors raised by the ground-segment processing chain.
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Jumber of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and Jumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a prestrict of products with errors: 0 5.4 L2 Auxiliary Correction Error Check For all products, the auxiliary corrections within the Geophysical Group are check For all products, the auxiliary corrections within the Geophysical Group are check Corrently, there are two common auxiliary correction errors raised in the Beolowed by a table highlighting any additional issues which may arise for Bea State Bias Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error: The error value is currently set for products over land an Unimetric Wind Speed Error is the error value is currently set for products over land an Unimetric Wind Speed Error is the error value is currently set for products over land an Unimetric Wind Speed E	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va ecked for the default error value (32767). I Level 2 products which are expected due t om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. I Test Failed Total Geocentric Ocean Tide (FES), Nor	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct. o surface type. All common flags are summarised in the list below, Description
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Jumber of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and tumber of products with errors: 0 5.3 L2 Auxiliary Data File Usage Check Cach product is checked for missing Data Set Descriptors with respect to a prest of products with errors: 0 5.4 L2 Auxiliary Correction Error Check Cor all products, the auxiliary corrections within the Geophysical Group are check Cor all products, the auxiliary corrections within the Geophysical Group are check Cor all products, the auxiliary corrections within the Geophysical Group are check Correction Error Check Cor all products, the auxiliary corrections within the Geophysical Group are check Correction Error: The error value is currently set for products over land an auxiliary to products with errors: Correction Error: 16 Product 18 Sc.OFFL_SIR_GOP_2_20170218T003830_20170218T004031_B001 CS_OFFL_SIR_GOP_2_20170218T053345_20170218T053537_B001 CS_OFFL_SIR_GOP_2_20170218T053641_20170218T053834_B001	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va e-determined baseline and also to check the va ecked for the default error value (32767). • Level 2 products which are expected due t om this test. Ind sea ice, but this is to be expected. er land and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. er land and sea ice, but this is to be expected. Event this is to be expected. Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor Equilibrium Long Period Ocean Tide Total Geocentric Ocean Tide (FES), Nor	Idily of Auxiliary Data Files is correct. Idily of Auxiliary Data Files is correct. Description There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height (solution FES) and the Non-equilibrium Long Period Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records There is an error with the Total Geocentric Ocean Tide height for one o more records
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Aumber of products with errors: 0	d SPH in order to identify any inconsistencies a e-determined baseline and also to check the va e-determined baseline and also to be expected. e-determined baseline and period Ocean Tide (FES), Nor e-duilibrium Long Period Ocean Tide (FES), Nor e-duilibrium Lo	Idily of Auxiliary Data Files is correct.
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CS_OFFL_SIR_GOP_220170218T105728_20170218T111529_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_220170218T121336_20170218T121413_B001		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_220170218T122933_20170218T123305_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_220170218T123305_20170218T123441_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_220170218T153605_20170218T153659_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_220170218T165608_20170218T170529_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_220170218T190716_20170218T190938_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: 0

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. 31

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170218T013720_20170218T013829_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T013835_20170218T014242_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T031227_20170218T031727_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T031733_20170218T031740_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170218T031740_20170218T031747_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T031747_20170218T032103_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T045114_20170218T045625_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T045638_20170218T045644_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T045644_20170218T045656_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T045702_20170218T045833_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T063536_20170218T063542_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T063600_20170218T063610_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T063615_20170218T063717_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T081111_20170218T081452_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T081514_20170218T081813_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T094852_20170218T095406_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T095412_20170218T095740_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T112852_20170218T113439_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T113456_20170218T113641_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T130820_20170218T131332_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T145013_20170218T145234_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T162945_20170218T163142_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170218T163320_20170218T163645_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T172335_20170218T172523_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T180810_20170218T181104_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T181114_20170218T181546_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170218T194615_20170218T195446_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170218T203546_20170218T203642_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170218T212541_20170218T212707_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170218T212828_20170218T213245_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170218T230740_20170218T231326_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. 25

Number of products with errors:

The Ice Backscatter Averaging Status Flag has been set for one or more records.
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The Ice Backscatter Averaging Status Flag has been set for one or more records.
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:

6. GOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_GOP_1B	292	292	292	0	0
SIR_GOP_2	290	290	290	0	0
6.1 QCC Errors					
0.1 QCC EITOIS					
Number of products with QCC	errors: 0				
6.2 QCC Warnings					
Number of QCC reports with w	arnings 0				
6.3 Missing QCC Repo	orts				
Number of products with missi	ing QCC reports: 0				