

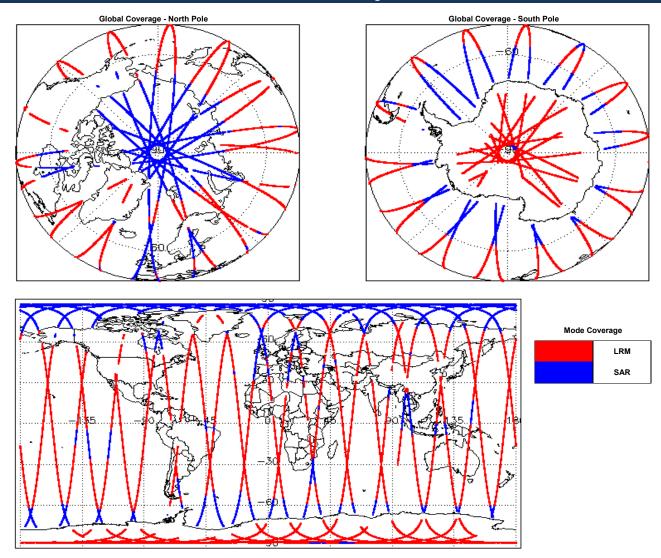
IDEAS+ Daily Report for GOP data:

<u>15/07/2017</u>

Report Production Date:	11-Aug-2017	Check	Status
Report Production Date.		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
	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 4.5, 4.6, 5.5, 5.6, 5.7 and 5.8

15-Jul-2017	None
16-Jul-2017	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

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.

Number of products with errors:

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 any problems when set.

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Number of products with errors:

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 12) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20170715T020504_20170715T021158_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOP_1B_20170715T052525_20170715T052655_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOP_1B_20170715T104527_20170715T104600_B001		There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOP_1B_20170715T120323_20170715T123503_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOP_1B_20170715T134028_20170715T134357_B001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag (field 65) for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_1B_20170715T011237_20170715T011418_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170715T041727_20170715T041953_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170715T101950_20170715T103706_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170715T174537_20170715T174912_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170715T181418_20170715T181528_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170715T181747_20170715T182349_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170715T220307_20170715T221237_B001	Loss of Echo	The tracking echo is missing for one or more records

5. GOP Level 2 Data Quality Check

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

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.

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_220170715T000753_20170715T001053_B001	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_220170715T020322_20170715T020451_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_220170715T040756_20170715T041303_B001	Fotal 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_220170715T052810_20170715T053130_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_220170715T070009_20170715T071024_B001	Fotal 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_220170715T094821_20170715T095744_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records

Total Geocentric Ocean Tide (FES), Non-Tree is an error with the Total Geocentric Ocean Tide height (solution 2
CS_OFFL_SIR_GOP_2_20170715T132515_20170715T132740_B001 Equilibrium Long Period Ocean Tide (FLO), Not FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170715T164035_20170715T164336_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- 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
CS_OFFL_SIR_GOP_2_20170715T181747_20170715T182349_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170715T182731_20170715T183536_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- 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
CS_OFFL_SIR_GOP_2_20170715T203457_20170715T205011_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170715T220307_20170715T221237_B001 Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170715T232453_20170715T233146_B001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_GOP_2_20170715T234540_20170715T235047_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

5.5 L2 Measurement Confidence Data Check

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

Number of	products with errors:	5

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170715T020504_20170715T021157_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220170715T052525_20170715T052655_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220170715T104527_20170715T104600_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220170715T120323_20170715T123503_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220170715T134028_20170715T134357_B001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

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:

CS_OFFL_SIR_GOP_2_20170715101031_201707151010707_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201707151010714_201707151010723_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201707151010729_20170715101040_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201707151024628_201707151024621_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_201707151024628_201707151024625_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20170715104273_20170715104265_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20170715104273_D0170160547_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20170715104238_D0170115004288_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20170715104238_D0170115004288_B001 loc Range Averaging Status The loc Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOP_2_20170715104293_D017015104293_B	Product	Test Failed	Description
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Column Structure Column Structure Column Structure The Colum Structure The Column Structure </td <td>CS_OFFL_SIR_GOP_2_20170715T010714_20170715T010723_B001</td> <td>Ice Range Averaging Status</td> <td></td>	CS_OFFL_SIR_GOP_2_20170715T010714_20170715T010723_B001	Ice Range Averaging Status	
CS_OFFL_SIR_GOP_2_20170715T024628_20170715T024625_B001 toe Range Averaging Status records. CS_OFFL_SIR_GOP_2_20170715T024628_20170715T024625_B001 toe Range Averaging Status The toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T024262_20170715T024625_B001 toe Range Averaging Status The toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T042787_20170715T042655_B001 toe Range Averaging Status The toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T04238_20170715T042685_B001 toe Range Averaging Status The toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T04238_20170715T074238_B001 toe Range Averaging Status The toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T04238_20170715T092368_B001 toe Range Averaging Status The toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T101564_20170715T1092300_B001 toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T101564_20170715T1101752_B001 toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T101564_20170715T1101752_B001 toe Range Averaging Status Flag has been set for one or more ecords. CS_OFFL_SIR_GOP_2_20170715T	CS_OFFL_SIR_GOP_220170715T010729_20170715T011040_B001	Ice Range Averaging Status	
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	CS_OFFL_SIR_GOP_220170715T191905_20170715T192317_B001	Ice Range Averaging Status	
	CS_OFFL_SIR_GOP_220170715T200405_20170715T200537_B001	Ice Range Averaging Status	

CS_OFFL_SIR_GOP_2_20170715T205238_20170715T205757_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	
CS_OFFL_SIR_GOP_2_20170715T205804_20170715T205810_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_GOP_2_20170715T205810_20170715T205816_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_GOP_2_20170715T205816_20170715T210022_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or n records.	ore
CS_OFFL_SIR_GOP_2_20170715T223203_20170715T223657_B001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or m records.	ore
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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. 27

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20170715T010331_20170715T010707_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170715T010729_20170715T011040_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170715T024113_20170715T024621_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170715T024628_20170715T024955_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T042112_20170715T042653_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T042737_20170715T042855_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T060038_20170715T060547_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T074238_20170715T074449_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T092200_20170715T092358_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T092522_20170715T092900_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T101554_20170715T101725_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T110019_20170715T110801_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T123834_20170715T124050_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T124054_20170715T124656_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T141758_20170715T141917_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T142045_20170715T142501_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T155956_20170715T160536_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T173900_20170715T174411_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T191647_20170715T191859_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T191905_20170715T192317_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T200405_20170715T200537_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T205238_20170715T205757_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170715T205804_20170715T205810_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170715T205810_20170715T205816_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170715T223203_20170715T223657_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170715T223715_20170715T223726_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170715T223732_20170715T223849_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

Number of products with errors:

CryoSat L2 data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set. Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

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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	229	229	229	0	0
SIR_GOP_2	226	226	226	0	0

6.1 QCC Errors	
Number of products with QCC errors:	0
6.2 QCC Warnings	
Number of QCC reports with warnings	0
6.3 Missing QCC Reports	
Number of products with missing QCC reports:	0