

IDEAS+ Daily Report for GOP data:

<u>06/03/2017</u>

		1. Overview	
	[]	Chask	Status
Report Production Date:	05-Apr-2017	Check	Status
· · · · · · · · · · · · · · · · · · ·	•	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
110003301 0300.		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
		I	
Mission / Instrument News			
05-Mar-2017 None			
06-Mar-2017 None			
07-Mar-2017 Nothing planned			

2. Global Coverage

Global Coverage - North Pole	Global Coverage - South Pole
	Mode Coverage LRM SAR

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 pro-	e-determined baseline and also to check the val	lidity 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 a	ny problems when set.
lumber of products with errors: 0		
4.5.1.4.D. Maaaumamant Confidence Date Chook		
I.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 12) for each in	measurement record. The bit value of this flag in	ndicates any problems when set.
umber of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag (field 65) for each measurem	ent record. The bit value of this flag indicates ar	ny problems when set.
.oss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
umber of products with errors: 16		
roduct	Test Failed	Description
S_OFFL_SIR_GOP_1B_20170306T002406_20170306T003811_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T004941_20170306T011217_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T020149_20170306T020233_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T020643_20170306T021435_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T044112_20170306T044433_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T051733_20170306T051901_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T084101_20170306T084848_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T143946_20170306T145718_B001 S_OFFL_SIR_GOP_1B_20170306T160224_20170306T160724_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_20170306T161850_20170306T163425_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T163627_20170306T164549_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T201601_20170306T201658_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T201727_20170306T202222_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20170306T203413_20170306T204556_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170306T215117_20170306T215319_B001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOP_1B_20170306T232214_20170306T232310_B001	Loss of Echo	The tracking echo is missing for one or more records
5 🖸	OP Level 2 Data Quality Ch	ock
	Cr Level 2 Data Quality Ch	GUN
5.1 L2 Product Format Check		
ach product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML header file (.H	HDR) and a product file (.DBL).
lumber of products with errors: 0		
5.2 L2 Product Header Analysis		
or all products, a series of pre-defined checks are performed on the MPH and	d SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain
lumber of products with errors: 0		
5.3 L2 Auxiliary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a pro-	e-determined baseline and also to check the val	lidity of Auxiliary Data Files is correct.
Vind Model File Usage: This file is currently not included in all L2 products.		
lumber of products with errors: 0		
5.4 L2 Auxiliary Correction Error Check		
or all products, the auxiliary corrections within the Geophysical Group are che	acked for the default error value (32767)	
currently, there are two common auxiliary correction errors raised in the		o surface type. All common flags are summarised in the list below.
ollowed by a table highlighting any additional issues which may arise fr		
ea State Bias Error: The error value is currently set for products over land a	ind sea ice, but this is to be expected.	
Itimetric Wind Speed Error: The error value is currently set for products ov	er land and sea ice, but this is to be expected.	
lumber of products with errors: 20		
Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170306T021832_20170306T025053_B001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	FES) and the Non-equilibrium Long Period Ocean Tide height for one of
		more records There is an error with the Total Geocentric Ocean Tide height (solution 2
S_OFFL_SIR_GOP_2_20170306T051733_20170306T051901_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
S_OFFL_SIR_GOP_220170306T062216_20170306T065624_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_2_20170306T065625_20170306T065805_B001 Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide

CS_OFFL_SIR_GOP_2_20170306T070901_20170306T071028_B001 Total Geocentric Ocean Tide (FES), Equilibrium Long Period Ocean Tide Fes) and the Non-equilibrium Long Period Ocean Tide more records

CS_OFFL_SIR_GOP_220170306T084853_20170306T085144_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_220170306T102709_20170306T103212_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220170306T115419_20170306T120610_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_220170306T143946_20170306T145718_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_220170306T150914_20170306T151333_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_220170306T151629_20170306T151754_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_220170306T154639_20170306T154816_B001		There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) for one or more records
CS_OFFL_SIR_GOP_220170306T163627_20170306T164549_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_220170306T170619_20170306T171052_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_220170306T171158_20170306T171350_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_220170306T173103_20170306T173714_B001	Ocean Depth/Land Elevation	There is an error with the Ocean Depth or Land Elevation height for one or more records
CS_OFFL_SIR_GOP_220170306T183533_20170306T184208_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_220170306T185023_20170306T190055_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_220170306T201727_20170306T202222_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_220170306T211619_20170306T214602_B001	Geoid Height	There is an error with the Geoid 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. 34

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220170306T011727_20170306T011852_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T011900_20170306T012308_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T025224_20170306T025751_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T025804_20170306T025810_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T025810_20170306T030044_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T034028_20170306T034209_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T034243_20170306T034444_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T043656_20170306T043702_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T043703_20170306T043708_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T043708_20170306T043719_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T043727_20170306T043848_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T061109_20170306T061600_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T061606_20170306T061618_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T061641_20170306T061749_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T075145_20170306T075515_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T075523_20170306T075532_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T075538_20170306T075905_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T092931_20170306T093429_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T093436_20170306T093804_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170306T102709_20170306T103212_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220170306T110929_20170306T111500_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T124848_20170306T125356_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T143103_20170306T143300_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T161007_20170306T161210_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T161312_20170306T161711_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T170401_20170306T170503_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T174810_20170306T175613_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T192649_20170306T192855_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T192927_20170306T193456_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T201601_20170306T201658_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T210609_20170306T210713_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T210857_20170306T211343_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220170306T211359_20170306T211455_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20170306T224806_20170306T225336_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:

CS_OFFL_SIR_GOP_2_20170306T011727_20170306T011852_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging StatusThe Ice Backscatter Averaging StatusThe Ice Backscatter Averaging StatusThe Ice Backscatter Averaging StatusFlag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T0125224_20170306T01250751_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T025291_20170306T03204_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T034028_20170306T034249_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T034243_20170306T034444_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T061666_20170306T061618_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T075145_20170306T07515_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T075154_20170306T075515_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T075154_20170306T0755905_B001Ice Backscatter Averaging StatusThe Ice Backscatter Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_GOP_2_20170306T0750	
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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.

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.

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	270	270	270	0	0
SIR_GOP_2	267	267	267	0	0
6.1 QCC Errors					
Number of products with QCC e	rrors: ()			
6.2 QCC Warnings					
Number of QCC reports with wa	rnings ()			
6.3 Missing QCC Repo	rts				
Number of products with missin	ig QCC reports: ()			