

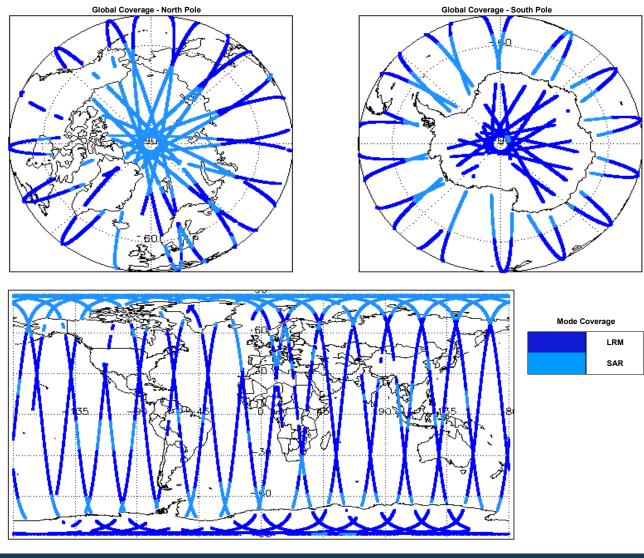
# IDEAS+ Daily Report for GOP data:

## <u>06/11/2015</u>

eport Production Date:	07-Dec-2015	Check	Status
Report Froduction 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
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

03-1101-2013	
06-Nov-2015	None
07-Nov-2015	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 pr	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	nent record. The bit value of this flag indicates a	ny problems when set.
lumber of products with errors: 0		
1.5 L1B Measurement Confidence Data Check		
ryoSat L1B data includes a measurement confidence flag (field 12) for each umber of products with errors: 0	measurement record. The bit value of this flag in	ndicates any problems when set.
umber of products with errors: 0		
I.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_20151106T030042_20151106T030654_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T035434_20151106T041016_B001 S_OFFL_SIR_GOP_1B_20151106T041220_20151106T042731_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_20151106T050051_20151106T052157_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T054333_20151106T054757_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T125509_20151106T125857_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T143835_20151106T145700_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T160008_20151106T160535_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T161719_20151106T163232_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T163433_20151106T164357_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T170619_20151106T172319_B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T201408_20151106T201505_B001 S_OFFL_SIR_GOP_1B_20151106T201538_20151106T202023_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_201511061201536_201511061202025_6001	Loss of Echo	The tracking echo is missing for one or more records
S OFFL SIR GOP 1B 20151106T211615 20151106T214310 B001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_GOP_1B_20151106T231855_20151106T232059_B001	Loss of Echo	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		
ach product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML header file (.H	IDR) 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		
3.3 L2 Auxiliary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a pr	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	ecked for the default error value (32767).	
surrently, there are two common auxiliary correction errors raised in the		o surface type. All common flags are summarised in the list below,
Nowed 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		
Itimetric Wind Speed Error: The error value is currently set for products over land a		
umber of products with errors: 14		
roduct	Test Failed	Description
S_OFFL_SIR_GOP_220151106T000946_20151106T001225_B001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution
S_OFFL_SIR_GOP_220151106T001225_20151106T001448_B001	Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution
S_OFFL_SIR_GOP_220151106T041220_20151106T042731_B001	Total Geocentric Ocean Tide (FES)	There is an error with the Total Geocentric Ocean Tide height (solution FES) for one or more records
	Total Geocentric Ocean Tide (FES), Non	There is an error with the Total Geocentric Ocean Tide height (solution

 CS\_OFFL\_SIR\_GOP\_2\_20151106T062144\_20151106T065514\_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

 CS\_OFFL\_SIR\_GOP\_2\_20151106T065637\_20151106T065729\_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

 CS\_OFFL\_SIR\_GOP\_2\_20151106T065637\_20151106T065729\_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

CS_OFFL_SIR_GOP_2_20151106T070715_20151106T070826_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_220151106T103609_20151106T104626_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_220151106T120905_20151106T121155_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_220151106T135638_20151106T141930_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_220151106T154620_20151106T160008_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_220151106T164357_20151106T164600_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_220151106T165424_20151106T170059_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_220151106T170619_20151106T172319_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_220151106T232619_20151106T232919_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. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20151106T011535_20151106T011655_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T011703_20151106T012109_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T025035_20151106T025554_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T025554_20151106T025559_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T025559_20151106T025606_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T025606_20151106T025613_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T025613_20151106T025857_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T033844_20151106T034251_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T043458_20151106T043505_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T043505_20151106T043511_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T043511_20151106T043522_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T061402_20151106T061409_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T061443_20151106T061549_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T074947_20151106T075318_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T075325_20151106T075334_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T075340_20151106T075709_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T092730_20151106T093232_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T093239_20151106T093607_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T110728_20151106T111304_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T124650_20151106T125159_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T142900_20151106T143102_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T160811_20151106T161011_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T161122_20151106T161513_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T174619_20151106T175415_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T192450_20151106T192700_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T192723_20151106T193303_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T210411_20151106T210521_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T210659_20151106T211131_B001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T211246_20151106T211251_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. 22

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220151106T011703_20151106T012109_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T025035_20151106T025554_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T025613_20151106T025857_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T033844_20151106T034251_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T043458_20151106T043505_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T061402_20151106T061409_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T061443_20151106T061549_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T074947_20151106T075318_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T075340_20151106T075709_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T092730_20151106T093232_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T093239_20151106T093607_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T110728_20151106T111304_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T124650_20151106T125159_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T142900_20151106T143102_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T160811_20151106T161011_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20151106T161122_20151106T161513_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T174619_20151106T175415_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T192450_20151106T192700_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T192723_20151106T193303_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T210411_20151106T210521_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T210659_20151106T211131_B001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220151106T224608_20151106T225143_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: