

IDEAS+ Daily Report for GOP data:

<u>08/04/2019</u>



		1. Overview		
		Check	L1 & L2	P2P
port Production:	08-May-2019	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
	0.010.5	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
rocessor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Ura di	Geophysical Ocean Products (GOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
sion / Instrument Ne 7-Apr-2019 None 8-Apr-2019 None 9-Apr-2019 Nothing				
		2. Global Coverage		
				lode Coverage LRM SAR SARIn

3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.

SIRAL - A

0

SIRAL instrument(s) in use:

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 binary product file (.DBL).

Number of products with errors:

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	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: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record.	The bit value of this flag indicates any proble	ms when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.				
Attitude Correction Missing: This flag is currently set in error for GOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.				
Number of products with errors: 1				
Number of products with errors: 1				
Number of products with errors: 1 Product	Test Failed	Description		

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag 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 some 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_GOPM1B_20190408T031631_20190408T033120_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190408T041316_20190408T041704_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190408T072902_20190408T074333_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20190408T180812_20190408T183652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T004700_20190408T004744_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T022111_20190408T022231_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T030139_20190408T030719_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T081220_20190408T081345_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T102702_20190408T102811_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T120742_20190408T120829_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T120922_20190408T121329_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20190408T221258_20190408T221353_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190408T004314_20190408T004346_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190408T004500_20190408T004649_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190408T021432_20190408T021951_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190408T033121_20190408T033300_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190408T084310_20190408T084447_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20190408T210450_20190408T210802_C001	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 binary 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. Number of products with errors: 0

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).
Number of products with errors:
0

1

5.5 L2 Measurement Confidence Data Check

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

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190408T055523_20190408T062122_C001	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 and Ice 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. 77

City, Parl, Jang, Corpw. J., 20104447100144, 20104447101143, Colo 1 Colum Range Averaging Status Imm Colum Range Averaging Status Imm Colum Range Averaging Status The Colum Range Averaging Status	Product	Test Failed	Description
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Dip Proj. Discret Transport Discre Transport Discret Transport Di	CS_OFFL_SIR_GOPM_2_20190408T004744_20190408T005440_C001	Ocean Range Averaging Status	
C3 C41 S42 Construction Cases Rearge Averaging Status Pro-Cases Rearge Averaging Status Pro-Cases Rearge Averaging Status C3 CPMS32 CONST_2_0.0000001100000_0000_0000_00000_00000_00000_00000_0000	CS_OFFL_SIR_GOPM_2_20190408T005455_20190408T011903_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CB, OPFL JM, OOFM J, 201004811101824 (20100481101826, 2010 Coam Range Awanging Status The Committee Awanging Status They have been set for ore or mere excess. CB, OPFL JM, GOFM J, 20100481102221 (20100481102220) Coam Range Awanging Status The Committee Awanging Status They have been set for ore or mere excess. CG, OFFL SR, GOFM J, 20100481102221 (20190481102223) Coam Range Awanging Status The Committee Awanging Status They have been set for ore or mere excess. CG, OFFL SR, GOFM J, 20100481102213 (20190481102232) Coam Range Awanging Status The Committee Awanging Status They have been set for ore or mere excess. CG, OFFL SR, GOFM J, 20100481102313 (20100 Ceam Range Awanging Status The Committee Awanging Status The Committee Awanging Status The Committee Awanging Status They have been set for ore or nere excess. CG, OFFL SR, GOFM J, 2010048110318 (20100401004310, 20100 Ceam Range Awanging Status The Committee Awanging Status The Status The Committee Awanging Status The Status The Committee Awanging Status The Status The Committee Awanging Status The Status The Committee Awanging St	CS OFFL SIR GOPM 2 20190408T013723 20190408T015339 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
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BL_CPH_URC_DDM_UP_TOMONINGTONING_TOOT Col Rargo Averaging Status The Down Rarge Averaging Status File pase Neering Status File pase Nee			
55. OPFL_SIR_COM_2_201904097022002_00100487102310_201904087102300_001 Open Range Averaging Status Range Ave			
 Berger, Berg, Contrag, Contract Contract Strates, Contract Contract Strates, Analysis Strates, Files, Strates, Fi			
Control Control Control Control Control Control Cont			records.
St. OFT., SR. COM, 2.21194461704282 Color. Resolution Resolution Resolution CS, OFT., SR. COM, 2.20194461704132 Ottom halling Averaging Status The low Parage Averaging St			records.
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Sc. UH-L, SL. GOPU, 2. 01900087104507, 201904087103432, 0001 Ustain Range Averaging Status The Codes Range Averaging Status The Code Range Averaging Status <td>CS_OFFL_SIR_GOPM_2_20190408T031014_20190408T031438_C001</td> <td>Ice Range Averaging Status</td> <td>records.</td>	CS_OFFL_SIR_GOPM_2_20190408T031014_20190408T031438_C001	Ice Range Averaging Status	records.
Cort Disc Corth 2, 201900005103002, 20190005103032, 2001 Corth Ralig Averaging Status The Ocean Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more more for the Corte Range Averaging Status Flag has been set for one or more for the Corte Range Averaging Status Flag has been set for one or more for the Corte Range Averaging Status Flag has been set for one or more for the Corte Range Av	CS_OFFL_SIR_GOPM_2_20190408T031631_20190408T033120_C001	Ocean Range Averaging Status	records.
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Corpert, Sint, GorM 2, 20190408104281, 20190408104282, 2010 Open Range Averaging Status The Open Range Averaging Status Flag has been set for one or more exocus. CS, OFFL, Sint, GORM 2, 20190408104502, 201904081051823, 2001 Open Range Averaging Status The Open Range Averaging Status Flag has been set for one or more exocus. CS, OFFL, Sint, GORM 2, 20190408104502, 201904081051823, 2001 Open Range Averaging Status The Open Range Averaging Status Flag has been set for one or more exocus. CS, OFFL, Sint, GORM 2, 20190408105632, 201904081051122, 2001 Open Range Averaging Status The Open Range Averaging Status Flag has been set for one or more exocus. CS, OFFL, Sint, GORM 2, 20190408105632, 201904081051122, 2001 Open Range Averaging Status The Open Range Averaging Status Flag has been set for one or more exocus. CS, OFFL, Sint, GORM 2, 20190408105632, 201904081051121, 2001 Open Range Averaging Status The Open Range Averaging Status Flag has been set for one or more exocus. CS, OFFL, Sint, GORM 2, 201904081063032, 201904081051212, 2001 Open Range Averaging Status The Open Range Averaging Status CS, OFFL, Sint, GORM 2, 20190408108052, 201904081085421, 2001 Open Range Averaging Status The Open Range Averaging Status CS, OFFL, Sint, GORM 2, 201904081080532, 201904081085421, 20010 Opean Range Averaging Status The Open Range Averaging Status CS, OFFL, Sint, GORM 2, 2019040810708432,	CS_OFFL_SIR_GOPM_2_20190408T041316_20190408T041704_C001	Ocean Range Averaging Status	
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CS_OFFL_SIR_GOPM_2_2019040811093/3_20190408110033_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_GOPM_2_20190408T100159_20190408T100324_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T102811_20190408T103217_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T105628_20190408T105341_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T112413_20190408T112536_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T112544_20190408T112536_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T112544_20190408T112551_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T115452_20190408T115403_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T112652_20190408T115403_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_GOPM_2_20190408T112652_20190408T115403_C001	CS_OFFL_SIR_GOPM_2_20190408T095241_20190408T095533_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_201904081102811_201904081103217_C001 CCS_OFFL_SIR_GOPM_2_201904081102811_201904081103217_C001 CCS_OFFL_SIR_GOPM_2_201904081102811_201904081105341_C001 CCS_OFFL_SIR_GOPM_2_201904081105628_201904081105341_C001 CCS_OFFL_SIR_GOPM_2_201904081105628_20190408111839_C001 CCS_OFFL_SIR_GOPM_2_201904081112542_201904081112536_C001 CCS_OFFL_SIR_GOPM_2_201904081112544_201904081112536_C001 CCS_OFFL_SIR_GOPM_2_201904081112544_201904081112536_C001 CCS_OFFL_SIR_GOPM_2_201904081112542_201904081112551_C001 CCS_OFFL_SIR_GOPM_2_201904081112542_201904081112551_C001 CCS_OFFL_SIR_GOPM_2_201904081112542_20190408111455_C001 CCS_OFFL_SIR_GOPM_2_20190408111455_20190408111455_C001 CCS_OFFL_SIR_GOPM_2_201904081114645_20190408111457_C001 CCS_OFFL_SIR_GOPM_2_201904081114645_20190408111503_C001 CCS_OFFL_SIR_GOPM_2_20190408111465_20190408111591_C001 CCS_OFFL_SIR_GOPM_2_20190408111465_201904081115919_C001 CCS_OFFL_SIR_GOPM_2_201904081112513_201904081115919_C001 CCS_OFFL_SIR_GOPM_2_201904081112513_201904081125717_C001 CCS_OFFL_SIR_GOPM_2_20190408112591_201904081125717_C001 CCS_OFFL_SIR_GOPM_2_20190408112591_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_20190408112591_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_20190408112591_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_20190408112591_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_20190408112591_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_201904081130455_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_201904081130455_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_2019040811310455_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_2019040811310455_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_20190408113124_201904081130435_C001 CCS_OFFL_SIR_GOPM_2_20190408113124_20190408113229_C001 CCS_OFFL_SIR_GOPM_2_20190408113124_20190408113229_C001 CCS_OFFL_SIR_GOPM_2_20190408113124_20190408113229_C001 CCS_OFFL_SIR_GOPM_2_20190408113124_20190408113229_C001 CCS_OFFL_SIR_GOPM_2_2019040811312420190408113229_C001 CCS_OFFL_SIR_GOPM_2_2019040811312420190408113229_C001 CCS_OFFL_SIR_GOPM_2_20190408113134536_C001 C	CS_OFFL_SIR_GOPM_2_20190408T095733_20190408T100037_C001	Ocean Range Averaging Status	records.
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US DEEL SIK GUPM Z ZU1904081132820 ZU1904081134538 CUU1 UCean Range Averaging Status			records.
	CS_OFFL_SIR_GOPM_2_20190408T132820_20190408T134538_C001	Ocean Range Averaging Status	

CS OFFL SIR GOPM 2 20190408T134919 20190408T135131 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20190408T140714 20190408T141900 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190408T142104_20190408T143638_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20190408T143833 20190408T144332 C001		records. The Ice Range Averaging Status Flag has been set for one or more
	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190408T144411_20190408T144533_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20190408T145244_20190408T150312_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20190408T150931_20190408T152144_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T160054_20190408T161529_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T161751_20190408T162244_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T162903_20190408T170303_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T173050_20190408T175503_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T175831_20190408T180159_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T180812_20190408T183652_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T190821_20190408T193434_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T193614_20190408T194113_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T194121_20190408T194448_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T194813_20190408T195923_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T200459_20190408T202241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T210802_20190408T211417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T211612_20190408T212145_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T212730_20190408T220110_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T221452_20190408T221558_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T223415_20190408T225330_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T225532_20190408T230040_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T230636_20190408T234046_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190408T040359_20190408T040628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T003630_20190408T004113_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T040253_20190408T040358_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T053239_20190408T053955_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T074333_20190408T074908_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T130435_20190408T130441_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T193434_20190408T193444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
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5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice 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. 78

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20190407T235710_20190408T003048_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T004744_20190408T005440_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T005455_20190408T011903_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T012837_20190408T013031_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T013723_20190408T015339_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T015354_20190408T015453_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T015538_20190408T020619_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T022231_20190408T022638_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T022802_20190408T023035_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T023116_20190408T024338_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T024957_20190408T030139_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOPM_2_20190408T031014_20190408T031438_C001 CS OFFL SIR GOPM 2 20190408T031631 20190408T033120 C001 CS_OFFL_SIR_GOPM_2_20190408T033300_20190408T034352_C001 CS_OFFL_SIR_GOPM_2_20190408T041316_20190408T041704_C001 CS_OFFL_SIR_GOPM_2_20190408T041827_20190408T042359_C001 CS_OFFL_SIR_GOPM_2_20190408T042517_20190408T044222_C001 CS OFFL SIR GOPM 2 20190408T044504 20190408T045350 C001 CS OFFL SIR GOPM 2 20190408T045607 20190408T051823 C001 CS_OFFL_SIR_GOPM_2_20190408T055523_20190408T062122_C001 CS_OFFL_SIR_GOPM_2_20190408T062715_20190408T063142_C001 CS OFFL SIR GOPM 2 20190408T063502 20190408T070824 C001 CS_OFFL_SIR_GOPM_2_20190408T072902_20190408T074333_C001 CS OFFL SIR GOPM 2 20190408T074909 20190408T080032 C001 CS_OFFL_SIR_GOPM_2_20190408T080630_20190408T081219_C001 CS_OFFL_SIR_GOPM_2_20190408T081356_20190408T083452_C001 CS OFFL SIR GOPM 2 20190408T083505 20190408T084018 C001 CS_OFFL_SIR_GOPM_2_20190408T085126_20190408T085221_C001 CS_OFFL_SIR_GOPM_2_20190408T090453_20190408T093934_C001 CS OFFL SIR GOPM 2 20190408T095241 20190408T095533 C001 CS_OFFL_SIR_GOPM_2_20190408T095733_20190408T100037_C001 CS_OFFL_SIR_GOPM_2_20190408T100159_20190408T100924_C001 CS OFFL SIR GOPM 2 20190408T102811 20190408T103217 C001 CS_OFFL_SIR_GOPM_2_20190408T104503_20190408T105341_C001 CS OFFL SIR GOPM 2 20190408T105628 20190408T111839 C001 CS OFFL SIR GOPM 2 20190408T112413 20190408T112536 C001 CS OFFL SIR GOPM 2 20190408T112544 20190408T112951 C001 CS_OFFL_SIR_GOPM_2_20190408T113155_20190408T114457_C001 CS_OFFL_SIR_GOPM_2_20190408T114645_20190408T115403_C001 CS_OFFL_SIR_GOPM_2_20190408T115452_20190408T115919_C001 CS OFFL SIR GOPM 2 20190408T122513 20190408T125717 C001 CS_OFFL_SIR_GOPM_2_20190408T125911_20190408T130435_C001 CS_OFFL_SIR_GOPM_2_20190408T130455_20190408T130731_C001 CS OFFL SIR GOPM 2 20190408T131214 20190408T131229 C001 CS_OFFL_SIR_GOPM_2_20190408T131536_20190408T132805_C001 CS_OFFL_SIR_GOPM_2_20190408T132820_20190408T134538_C001 CS OFFL SIR GOPM 2 20190408T134919 20190408T135131 C001 CS_OFFL_SIR_GOPM_2_20190408T140714_20190408T141900_C001 CS OFFL SIR GOPM 2 20190408T142104 20190408T143638 C001 CS OFFL SIR GOPM 2 20190408T143833 20190408T144332 C001 CS_OFFL_SIR_GOPM_2_20190408T144411_20190408T144533_C001 CS_OFFL_SIR_GOPM_2_20190408T145244_20190408T150312_C001 CS OFFL SIR GOPM 2 20190408T150931 20190408T152144 C001 CS_OFFL_SIR_GOPM_2_20190408T160054_20190408T161529_C001 CS OFFL SIR GOPM 2 20190408T161751 20190408T162244 C001 CS_OFFL_SIR_GOPM_2_20190408T162903_20190408T170303_C001 CS_OFFL_SIR_GOPM_2_20190408T173050_20190408T175503_C001 CS OFFL SIR GOPM 2 20190408T175831 20190408T180159 C001 CS_OFFL_SIR_GOPM_2_20190408T180812_20190408T183652_C001 CS_OFFL_SIR_GOPM_2_20190408T190821_20190408T193434_C001 CS OFFL SIR GOPM 2 20190408T193614 20190408T194113 C001 CS_OFFL_SIR_GOPM_2_20190408T194121_20190408T194448_C001 Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean

Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

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SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

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Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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.

CS_OFFL_SIR_GOPM_2_20190408T194813_20190408T195923_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T200459_20190408T202241_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T210802_20190408T211417_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T211612_20190408T212145_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T212730_20190408T220110_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T221452_20190408T221558_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T223415_20190408T225330_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T225532_20190408T230040_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20190408T230636_20190408T234046_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20190408T040359_20190408T040628_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T003630_20190408T004113_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T040253_20190408T040358_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T053239_20190408T053955_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T074333_20190408T074908_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T130435_20190408T130441_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20190408T193434_20190408T193444_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
5.9.1.2 Occan Betracking Quality Check		

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag 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.

Number of products with errors:

6. GOP L2 Pole-to-Pole Data Quality Check

6.1 P2P 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 NetCDF product file (.nc). Number of products with errors:

6.2 P2P 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:

6.3 P2P 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.

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

0

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Number of products with errors:

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

Product Tes	est Failed	Description
CS_OFFL_SIR_GOP_2_20190408T053806_20190408T062742_C001 Pov	ower scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice 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 P2P 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

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20190407T235048_20190408T004025_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T004025_20190408T013001_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T013001_20190408T021939_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T021939_20190408T030915_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T030915_20190408T035852_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T035852_20190408T044828_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T044828_20190408T053806_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220190408T053806_20190408T062742_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T062742_20190408T071720_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T071720_20190408T080656_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T080656_20190408T085633_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T085633_20190408T094609_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T094609_20190408T103547_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T103547_20190408T112523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T112523_20190408T121500_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T121500_20190408T130436_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T130436_20190408T135414_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T135414_20190408T144350_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T144350_20190408T153327_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T153327_20190408T162303_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T162303_20190408T171241_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T171241_20190408T180217_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T180217_20190408T185155_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T185155_20190408T194131_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T194131_20190408T203108_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T203108_20190408T212044_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T212044_20190408T221022_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T221022_20190408T225958_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T225958_20190408T234935_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T234935_20190409T003911_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice 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 P2P 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. 30

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20190407T235048_20190408T004025_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T004025_20190408T013001_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T013001_20190408T021939_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T021939_20190408T030915_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T030915_20190408T035852_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T035852_20190408T044828_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T044828_20190408T053806_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T053806_20190408T062742_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T062742_20190408T071720_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T071720_20190408T080656_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T080656_20190408T085633_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T085633_20190408T094609_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T094609_20190408T103547_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T103547_20190408T112523_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_GOP_220190408T112523_20190408T121500_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T121500_20190408T130436_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T130436_20190408T135414_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T135414_20190408T144350_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T144350_20190408T153327_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T153327_20190408T162303_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T162303_20190408T171241_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T171241_20190408T180217_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T180217_20190408T185155_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T185155_20190408T194131_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T194131_20190408T203108_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T203108_20190408T212044_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T212044_20190408T221022_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T221022_20190408T225958_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_220190408T225958_20190408T234935_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOP_2_20190408T234935_20190409T003911_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

6.8 P2P Ocean Retracking Quality Check

Cryosat P2P 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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20190407T235048_20190408T004025_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220190408T004025_20190408T013001_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220190408T013001_20190408T021939_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220190408T021939_20190408T030915_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220190408T030915_20190408T035852_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more record
CS_OFFL_SIR_GOP_220190408T035852_20190408T044828_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T044828_20190408T053806_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T053806_20190408T062742_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T062742_20190408T071720_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T071720_20190408T080656_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T080656_20190408T085633_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T085633_20190408T094609_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T094609_20190408T103547_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T103547_20190408T112523_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T112523_20190408T121500_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T121500_20190408T130436_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T130436_20190408T135414_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T135414_20190408T144350_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T144350_20190408T153327_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T162303_20190408T171241_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T171241_20190408T180217_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_220190408T180217_20190408T185155_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco
CS_OFFL_SIR_GOP_2_20190408T185155_20190408T194131_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more reco

CS_OFFL_SIR_GOP_220190408T203108_20190408T212044_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T212044_20190408T221022_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T221022_20190408T225958_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220190408T225958_20190408T234935_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.