



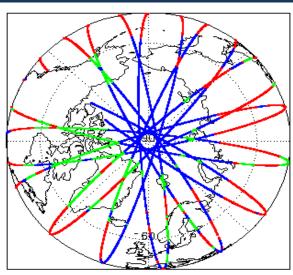
1. Overview

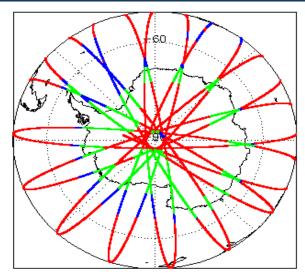
Report Production:	21-Mar-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

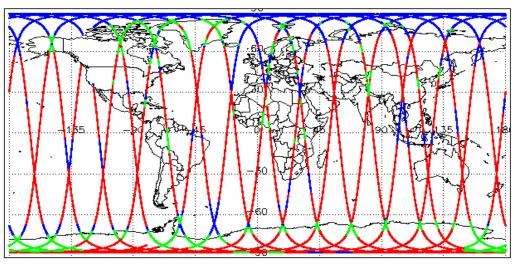
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
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

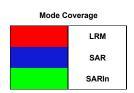
Mission / Instrument News		
15-Feb-2018	None	
16-Feb-2018	None	
17-Feb-2018	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. GOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary 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.

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

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:

Λ

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 products over land, but this is to be expected.

Number of products with errors:

20

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180216T002542_20180216T002825_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180216T022358_20180216T022443_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180216T055750_20180216T063247_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T005323_20180216T005537_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T014625_20180216T014813_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T023245_20180216T023730_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T081219_20180216T081636_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T090224_20180216T090425_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T121846_20180216T122150_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T190540_20180216T190650_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T190938_20180216T191109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180216T222312_20180216T222432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T002403_20180216T002542_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T004717_20180216T004840_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T053533_20180216T053640_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T054026_20180216T054102_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T121759_20180216T121846_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T190650_20180216T190715_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T203228_20180216T203504_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180216T204312_20180216T204911_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:

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:

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

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.

Number of products with errors:

0

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180216T000249_20180216T000716_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR GOPM 2 20180216T000908 20180216T002403 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T010235_20180216T010826_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T011109_20180216T013521_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180216T013743_20180216T014624_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T014831_20180216T021342_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T024545_20180216T031420_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR GOPM 2 20180216T031958 20180216T032418 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T032710_20180216T035521_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T042106_20180216T043614_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180216T044147_20180216T045325_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T045911_20180216T050457_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T050618_20180216T051241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T051616_20180216T052323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T055750_20180216T063247_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T063816_20180216T064328_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T064507_20180216T064815_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180216T064915_20180216T070434_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T072047_20180216T072157_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T073723_20180216T074625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T074911_20180216T081126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T081637_20180216T081815_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T081823_20180216T082233_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T082441_20180216T084645_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T084725_20180216T085159_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T085332_20180216T085956_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180216T091844_20180216T095024_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T095150_20180216T095714_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T100446_20180216T100502_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T100819_20180216T102046_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T102147_20180216T103845_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T110026_20180216T1111146_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180216T111349 20180216T112927 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T113117_20180216T113612_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR GOPM 2 20180216T114503 20180216T115732 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
		records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T120213_20180216T121358_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T125310_20180216T130823_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T132126_20180216T134845_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180216T142228_20180216T144816_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T145057_20180216T145439_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T145446_20180216T145455_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T145501_20180216T145827_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T150049_20180216T151258_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T151828_20180216T152933_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T155427_20180216T162734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T162858_20180216T163352_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T164035_20180216T165209_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T165742_20180216T171532_C001		records. The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T172829_20180216T172958_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T180044_20180216T180207_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T180406_20180216T180714_C001	Ocean Range Averaging Status	records.

CS_OFFL_SIR_GOPM_2_20180216T180856_20180216T181423_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T181953_20180216T184353_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T184510_20180216T185352_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T190715_20180216T190908_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T190911_20180216T190937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T192630_20180216T194606_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T195845_20180216T203228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T205804_20180216T212057_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T212408_20180216T212426_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T213032_20180216T213224_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T213859_20180216T215645_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T220127_20180216T220944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T224533_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T231225_20180216T231637_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T231813_20180216T233349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T233550_20180216T234512_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180216T014625_20180216T014813_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180216T031539_20180216T031711_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180216T064328_20180216T064445_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180216T095715_20180216T095720_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180216T195639_20180216T195845_C001	Ocean Range Averaging Status	The Ocean 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 and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when

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_20180216T000249_20180216T000716_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T000908_20180216T002403_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_20180216T002542_20180216T002825_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_20180216T010235_20180216T010826_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_20180216T011109_20180216T013521_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_20180216T013743_20180216T014624_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T014831_20180216T021342_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_20180216T024545_20180216T031420_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_20180216T031958_20180216T032418_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T032710_20180216T035521_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_20180216T042106_20180216T043614_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_20180216T044147_20180216T045325_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_20180216T045911_20180216T050457_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T050618_20180216T051241_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_20180216T051616_20180216T052323_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_20180216T055750_20180216T063247_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_20180216T063816_20180216T064328_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180216T064507_20180216T064815_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_20180216T064915_20180216T070434_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_20180216T072047_20180216T072157_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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Computer C	CS_OFFL_SIR_GOPM_2_20180216T074911_20180216T081126_C001		
Description Column Colum	CS OFFL SIR GOPM 2 20180216T081637 20180216T081815 C001		The Ice Backscatter Averaging Status Flag has been set for one or more
Description Description Security Description Des			
Security Control Security Control Plays Transport Security Control	CS_OFFL_SIR_GOPW_2_201602161061623_201602161062233_C001		
Co. CPF., URL COMPL_2 DESCRIPTIONS_2000-00 11900-1_COMPLAND COMPLAND COMPLA	CS_OFFL_SIR_GOPM_2_20180216T082441_20180216T084645_C001	Backscatter Averaging Status	more records.
Second Environment Control (Control 2) proteoperations (Co	CS_OFFL_SIR_GOPM_2_20180216T084725_20180216T085159_C001		
Co. OFF. 3. REL COMP J. 2 STANDON CONTROLLAND. CONTROLLAN	CS_OFFL_SIR_GOPM_2_20180216T085332_20180216T085956_C001		
De Contra Sin Corona. 2 dissociation 1997/2, 2019/2019 1997/2, 201	CS_OFFL_SIR_GOPM_2_20180216T091844_20180216T095024_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFF_SIR_COPU_2 20100215110827_2010215110820_COD CS_OFF_SIR_COPU_2 20100215110827_2010215110820_COD CS_OFF_SIR_COPU_2 20100215110827_20108215110820_COD CS_OFF_SIR_COPU_2 20100215110827_2	CS OFFI SIR GOPM 2 20180216T095150 20180216T095714 C001		The Ice Backscatter Averaging Status Flag has been set for one or more
COFFL, SRC GOMA 2 20192215110001 2-01920161100012, CO1920 CONTINUED CO1920			
So. OFT. 58. GOPM. 2. protection times. 2. protecti	CS_OFFL_SIR_GOPM_2_201802161095720_201802161095727_C001		records.
South Community	CS_OFFL_SIR_GOPM_2_20180216T100446_20180216T100502_C001	Backscatter Averaging Status	more records.
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Descoular Averaging Status Flags have been set for one or more control. Set of Flags (COPAL_20190216111317_20190216113192_COD) Set of Flags (COPAL_20190216113192_COD) Set of Flags (COPAL_2019021613192_COD) Set of Flags (COPAL_2019021613	CS_OFFL_SIR_GOPM_2_20180216T102147_20180216T103845_C001		
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CS_OFFL_SIR_GOMM_2_201802167113016_20180216713052_CO1 CS_OFFL_SIR_GOMM_2_20180216713016_201802151555_CO1 CS_OFFL_SIR_GOMM_2_20180216713016_201802151555_CO1 CS_OFFL_SIR_GOMM_2_20180216713016_20180216715555_CO1 CS_OFFL_SIR_GOMM_2_201802167130162_01802167151555_CO1 CS_OFFL_SIR_GOMM_2_201802167130162_01802167151555_CO1 CS_OFFL_SIR_GOMM_2_201802167130162_01802167151555_CO1 CS_OFFL_SIR_GOMM_2_201802167130162_01802167151555_CO1 CS_OFFL_SIR_GOMM_2_201802167130162_01802167151555_CO1 CS_OFFL_SIR_GOMM_2_201802167130162_01802167154468_CO1 CS_OFFL_SIR_GOMM_2_20180216713020_01802167154655_CO1 CS_OFFL_SIR_GOMM_2_20180216714655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_20180216714655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_20180216714655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_20180216714655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_20180216714655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_20180216714655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_201802167114655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_201802167114655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_201802167114655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_201802167114655_201802167154555_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167116280_CO1 CS_OFFL_SIR_GOMM_2_201802167118280_CO1 CS_OFFL_SIR_GOM			
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Backscriter / Averaging Satus From rocords. OR, OFFL.SR., GOPM. 2, 20180216113262, 20180216113717, CO01 OR, OFFL.SR., GOPM. 2, 20180216113262, 201802161134445, CO01 OR, OFFL.SR., GOPM. 2, 20180216114262, 201802161144450, CO01 OR, OFFL.SR., GOPM. 2, 20180216114262, 201802161144450, CO01 OR, OFFL.SR., GOPM. 2, 201802161144545, 201802161144552, CO01 OR, OFFL.SR., GOPM. 2, 201802161145091, 201802161144552, CO01 OR, OFFL.SR., GOPM. 2, 201802161145091, 201802161144552, CO01 OR, OFFL.SR., GOPM. 2, 2018021611545091, 201802161114552, CO01 OR, OFFL.SR., GOPM. 2, 2018021611545091, 201802161115252, CO01 OR, OFFL.SR., GOPM. 2, 2018021611545091, 201802161115252, CO01 OR, OFFL.SR., GOPM. 2, 201802161155282, 20180216115252, CO01 OR, OFFL.SR., GOPM. 2, 201802161155282, 201802161106230, CO01 OR, OFFL.SR., GOPM. 2, 201802161155282, 201802161106330, CO01 OR, OFFL.SR., GOPM. 2, 201802161155282, 201802161106330, CO01 OR, OFFL.SR., GOPM. 2, 201802161156003, 201802161106300, CO01 OR, OFFL.SR., GOPM. 2, 201802161106003, 201802161106003, CO01 OR, OFFL.SR., GOPM. 2, 201802161106003, 201802161106003, CO01 OR, OFFL.SR., GOPM. 2, 201802161106003, 201802161	CS_OFFL_SIR_GOPM_2_20180216T120213_20180216T121358_C001	Backscatter Averaging Status	more records.
SO, FFTL, SR, GOPM 2, 20180216T13428, 20180216T134454, CO01 SS, OFFL, SR, GOPM 2, 20180216T14428, 20180216T144454, CO01 SS, OFFL, SR, GOPM 2, 20180216T14428, 20180216T144454, CO01 SS, OFFL, SR, GOPM 2, 20180216T14428, 20180216T144454, CO01 SS, OFFL, SR, GOPM 2, 20180216T144454, CO10 SS, OFFL, SR, GOPM 2, 20180216T15283, CO10 SS, OFFL, SR, GOPM 2, 20180216T15282, CO10 SS, OFFL, SR, GOPM 2, 20180216T162802, CO10 SS, OFFL, SR, GOPM 2, 20180216T162802, CO10 SS, OFFL, SR, GOPM 2, 20180216T162802, CO10 SS, OFFL, SR, GOPM 2, 20180216T190802, CO10 SS, OFFL, SR, G	CS_OFFL_SIR_GOPM_2_20180216T125310_20180216T130823_C001		more records.
So GPFL_SR_GOPM_2_20180216113928_20180216114446_C001 SG_GFL_SR_GOPM_2_201802161142228_20180216114439_C001 SG_GFL_SR_GOPM_2_201802161149507_20180216114939_C001 SG_GFL_SR_GOPM_2_201802161149507_20180216114959_C001 SG_GFL_SR_GOPM_2_201802161149507_201802161149507_C001 SG_GFL_SR_GOPM_2_201802161149507_201802161149507_C001 SG_GFL_SR_GOPM_2_201802161150927_201802161149507_C001 SG_GFL_SR_GOPM_2_201802161150927_201802161162333_C001 SG_GFL_SR_GOPM_2_20180216116932_201802161163332_C001 SG_GFL_SR_GOPM_2_20180216116932_20180216116333_C001 SG_GFL_SR_GOPM_2_20180216116932_20180216116333_C001 SG_GFL_SR_GOPM_2_20180216116932_20180216116303_C00180216116303	CS_OFFL_SIR_GOPM_2_20180216T131046_20180216T131525_C001	Ice Backscatter Averaging Status	
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Symphy (according Status) Symphy (according Sta	CS_OFFL_SIR_GOPM_2_20180216T132126_20180216T134845_C001		
CS_OFFL_SIR_GOPM_2_20180216T14546_20180216T14545_0001 CS_OFFL_SIR_GOPM_2_20180216T14544_20180216T14552_0001 CS_OFFL_SIR_GOPM_2_20180216T165004_9 20180216T15520_0001 SO_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T162532_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T162532_0001 SO_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T162532_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160207_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160207_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160207_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160207_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160000_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160000_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160000_0001 CS_OFFL_SIR_GOPM_2_20180216T16004_9 20180216T160000_0001 CS_OFFL_SIR_GOPM_2_20180216T180004_9 20180216T160000_0001 CS_OFFL_SIR_GOPM_2_20180216T180004_9 20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180004_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180004_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180004_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180004_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180004_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T180000_0001 CS_OFFL_SIR_GOPM_2_20180216T1800000000000000000000000000000000000	CS_OFFL_SIR_GOPM_2_20180216T142228_20180216T144816_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_GOPM_2_20180216T146464_20180216T146827_C001 CS_OFFL_SIR_GOPM_2_20180216T145001_20180216T146827_C001 CS_OFFL_SIR_GOPM_2_20180216T150049_20180216T15289_C001 SWH Averaging Status. Coan Backscatter Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one or more records. The SWH and Coan Averaging Status Flag has been set for one	CS OFFL SIR GOPM 2 20180216T145057 20180216T145439 C001		The Ice Backscatter Averaging Status Flag has been set for one or more
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SO FFL_SIR_GOPM_2_20180216T16828_20180216T162933_C001 SWH Averaging Status Cocan Backscatter Averaging Status Flag have been set for one or			
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Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20180216T213032_20180216T213224_C001 CS_OFFL_SIR_GOPM_2_20180216T213032_20180216T215645_C001 CS_OFFL_SIR_GOPM_2_20180216T213859_20180216T215645_C001 CS_OFFL_SIR_GOPM_2_20180216T220127_20180216T220944_C001 CS_OFFL_SIR_GOPM_2_20180216T220127_20180216T220944_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222533_C001 CS_OFFL_SIR_GOPM_2_20180216T2224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T2224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T231235_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T231235_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T231235_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T23021	CS_OFFL_SIR_GOPM_2_20180216T205804_20180216T212057_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_GOPM_2_20180216T213032_20180216T215645_C001 CS_OFFL_SIR_GOPM_2_20180216T220127_20180216T220944_C001 CS_OFFL_SIR_GOPM_2_20180216T220127_20180216T220944_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T222533_C001 CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T224533_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T234744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T234744_20180216T230215_	CS_OFFL_SIR_GOPM_2_20180216T212408_20180216T212426_C001		
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CS_OFFL_SIR_GOPM_2_20180216T220127_20180216T220944_C001 SWH Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001 CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T224533_C001 CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T224533_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 SWH Averaging Status, Ocean Backscatter 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 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 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 Aver	CS_OFFL_SIR_GOPM_2_20180216T213859_20180216T215645_C001		
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CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T224533_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status 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 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.	CS_OFFL_SIR_GOPM_2_20180216T222432_20180216T222714_C001		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180216T224744_20180216T230215_C001 SWH Averaging Status, Ocean Backscatter Averaging Status 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.	CS_OFFL_SIR_GOPM_2_20180216T222856_20180216T224533_C001		The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_COPM_2_20180216T231225_20180216T231637_C001		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
records.		, i	The Ice Backscatter Averaging Status Flag has been set for one or more
		Janes States	records.

CS_OFFL_SIR_GOPM_2_20180216T231813_20180216T233349_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_20180216T233550_20180216T234512_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180216T014625_20180216T014813_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_20180216T031539_20180216T031711_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180216T064328_20180216T064445_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_20180216T095715_20180216T095720_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180216T195639_20180216T195845_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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).

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:

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180216T000200_20180216T005139_C002	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_20180216T005139_20180216T014114_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_220180216T014114_20180216T023053_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_220180216T023053_20180216T032028_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T032028_20180216T041006_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_220180216T041006_20180216T045941_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_220180216T045941_20180216T054920_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_220180216T054920_20180216T063855_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_220180216T063855_20180216T072834_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_220180216T072834_20180216T081808_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_220180216T081808_20180216T090747_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_220180216T090747_20180216T095722_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_220180216T095722_20180216T104701_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_220180216T104701_20180216T113635_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_220180216T113635_20180216T122614_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T122614_20180216T131549_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_220180216T131549_20180216T140528_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180216T140528_20180216T145503_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_220180216T145503_20180216T154441_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_220180216T154441_20180216T163416_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_220180216T163416_20180216T172355_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T172355_20180216T181330_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_220180216T181330_20180216T190309_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_220180216T190309_20180216T195243_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_220180216T195243_20180216T204222_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_220180216T204222_20180216T213157_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T213157_20180216T222136_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T222136_20180216T231110_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_220180216T231110_20180217T000049_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.

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180216T000200_20180216T005139_C002	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_20180216T005139_20180216T014114_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_20180216T014114_20180216T023053_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_20180216T023053_20180216T032028_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_20180216T032028_20180216T041006_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_20180216T041006_20180216T045941_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_20180216T045941_20180216T054920_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_20180216T054920_20180216T063855_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_20180216T063855_20180216T072834_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_20180216T072834_20180216T081808_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_20180216T081808_20180216T090747_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_20180216T090747_20180216T095722_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_20180216T095722_20180216T104701_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_20180216T104701_20180216T113635_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_20180216T113635_20180216T122614_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_20180216T122614_20180216T131549_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_20180216T131549_20180216T140528_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_20180216T140528_20180216T145503_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_20180216T145503_20180216T154441_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_20180216T154441_20180216T163416_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_20180216T163416_20180216T172355_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_20180216T172355_20180216T181330_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_20180216T181330_20180216T190309_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_20180216T190309_20180216T195243_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_20180216T195243_20180216T204222_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_20180216T204222_20180216T213157_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_20180216T213157_20180216T222136_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_20180216T222136_20180216T231110_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_20180216T231110_20180217T000049_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.

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_220180216T000200_20180216T005139_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180216T005139_20180216T014114_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T014114_20180216T023053_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T023053_20180216T032028_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T032028_20180216T041006_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T041006_20180216T045941_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T045941_20180216T054920_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T054920_20180216T063855_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T063855_20180216T072834_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T072834_20180216T081808_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T081808_20180216T090747_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T090747_20180216T095722_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T095722_20180216T104701_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T104701_20180216T113635_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T113635_20180216T122614_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T122614_20180216T131549_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T131549_20180216T140528_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T140528_20180216T145503_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T145503_20180216T154441_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T154441_20180216T163416_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T163416_20180216T172355_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T172355_20180216T181330_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T181330_20180216T190309_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T190309_20180216T195243_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T195243_20180216T204222_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180216T204222_20180216T213157_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180216T213157_20180216T222136_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180216T222136_20180216T231110_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180216T231110_20180217T000049_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.