



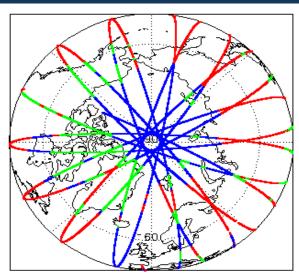
1. Overview

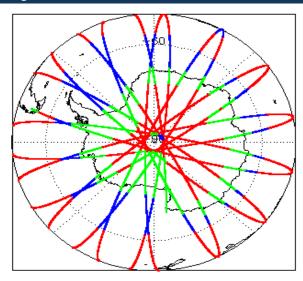
Report Production:	24-Aug-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Geophysical Ocean Products (GOP) L1B, L2 & P2P Science Data

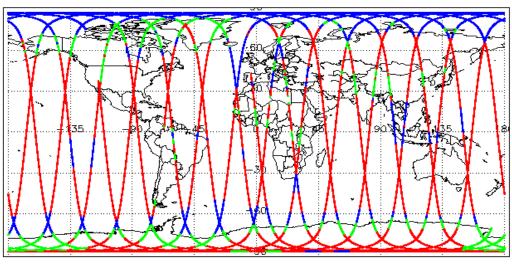
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary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

Mission / Instrument News		
25-Jul-2018	None	
26-Jul-2018	None	
27-Jul-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:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180726T093838_20180726T094436_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_GOPM1B_20180726T185333_20180726T185834_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag 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.

Number of products with errors:

17

Product	Test Failed	Description
CS_OFFL_SIR_GOPM1B_20180726T010120_20180726T013639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180726T100908_20180726T104154_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180726T134845_20180726T140312_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPM1B_20180726T150613_20180726T152113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T004924_20180726T005328_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T040540_20180726T040836_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T040926_20180726T041059_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T091329_20180726T091355_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T105326_20180726T105352_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T141033_20180726T141515_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T154937_20180726T155010_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T190343_20180726T190415_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPN1B_20180726T205102_20180726T205520_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180726T063310_20180726T063557_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180726T082625_20180726T082907_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180726T190247_20180726T190343_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_GOPR1B_20180726T235115_20180726T235425_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:

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:

2

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180726T093838_20180726T094436_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOPM_2_20180726T185333_20180726T185834_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

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. 83

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180726T000414_20180726T000537_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T000544_20180726T000952_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T001456_20180726T002459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T002647_20180726T003404_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T003447_20180726T003920_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T010120_20180726T013639_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T013914_20180726T014435_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T015537_20180726T020807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T020814_20180726T022547_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T024650_20180726T025855_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T030059_20180726T031551_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T031832_20180726T032332_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T032353_20180726T032404_C001	Ice Range Averaging Status	The lice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T033250_20180726T034314_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T034933_20180726T040424_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T043635_20180726T043723_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T044058_20180726T045429_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T045747_20180726T050244_C001	Ice Range Averaging Status	The lice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T051042_20180726T054304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T061056_20180726T063310_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180726T063830_20180726T064200_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180726T064222_20180726T064550_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180726T064912_20180726T071501_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180726T071504_20180726T071724_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_20180726T074902_20180726T081315_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T081612_20180726T082114_C001	Ice Range Averaging Status	The lice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T082121_20180726T082449_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T082908_20180726T083924_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T084500_20180726T090235_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T091447_20180726T092129_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T092758_20180726T093504_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T094759_20180726T095219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T095611_20180726T100146_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T100908_20180726T104154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T104204_20180726T104441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T105404_20180726T105552_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T111414_20180726T113018_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T113532_20180726T114041_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T114733_20180726T122315_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T123318_20180726T123357_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T124516_20180726T124936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T125032_20180726T130811_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T132719_20180726T134404_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T134845_20180726T140312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T141536_20180726T143334_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T143458_20180726T144855_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T145653_20180726T145853_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_GOPMZ01807261152013_Z01807261152113_Z01807261152113_Z01807261152013_Z01807261152	CS_OFFL_SIR_GOPM_2_20180726T150001_20180726T150356_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
Co. DFFL_Sis_GOPM_2018072811904_20180728119041_20180728119041_20180728119041_20180728119041_20180728119041_20180728119041_20180728119041_20180728119041200180_20180728119041200180_20180728119041200180_20180728119041200180_20180728119041200180_20180728119041200180_20180728119041200180_20180728119041200180_20180728119041200180_20180728119041200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904200180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_2018072811904180_	CS_OFFL_SIR_GOPM_2_20180726T150613_20180726T152113_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_GOPM_2_201807261155154_201807261155154_C001 CS_OFFL_SIR_GOPM_2_201807261155154_20180726115154_C001 CS_OFFL_SIR_GOPM_2_201807261155154_201807261151354_C001 CS_OFFL_SIR_GOPM_2_201807261155154_201807261151354_C001 CS_OFFL_SIR_GOPM_2_20180726116454_20180726116936_C001 CS_OFFL_SIR_GOPM_2_20180726116454_20180726116936_C001 CS_OFFL_SIR_GOPM_2_20180726116455_201807261170020_C001 CS_OFFL_SIR_GOPM_2_20180726116455_201807261170020_C001 CS_OFFL_SIR_GOPM_2_20180726116455_201807261170020_C001 CS_OFFL_SIR_GOPM_2_20180726116455_201807261102144_C001 CS_OFFL_SIR_GOPM_2_20180726118092_C01807261102144_C001 CS_OFFL_SIR_GOPM_2_20180726118092_C01807261102144_C001 CS_OFFL_SIR_GOPM_2_20180726118092_C01807261102144_C001 CS_OFFL_SIR_GOPM_2_20180726118092_C0180726119239_C001 CS_OFFL_SIR_GOPM_2_20180726118092_C0180726119234_C001 CS_OFFL_SIR_GOPM_2_20180726118092_C0180726119239_C001 CS_OFFL_SIR_GOPM_2_20180726118092_C0180726119239_C001 CS_OFFL_SIR_GOPM_2_20180726119204_20180726119239_C001 CS_OFFL_SIR_GOPM_2_20180726119204_20180726119204_201807261192050_C001 CS_OFFL_SIR_GOPM_2_20180726119204_201807261192050_C001 CS_OFFL_SIR_GOPM_2_20180726119204_201807261192050_C001 CS_OFFL_SIR_GOPM_2_20180726119204_201807261192050_C001 CS_OFFL_SIR_GOPM_2_201807261120412_201807261192050_C001 CS_OFFL_SIR_GOPM_2_201807261120412_201807261120305_C001 CS_OFFL_SIR_GOPM_2_201807261120412_201807261120305_C001 CS_OFFL_SIR_GOPM_2_201807261120412_201807261120400_C001 CS_OFFL_SIR_GOPM_2_201807	CS_OFFL_SIR_GOPM_2_20180726T152315_20180726T153237_C001	Ocean Range Averaging Status	
Co. OFFL_SR_COPM_2_20180726T19518_2_C010 Cos. OFFL_SR_COPM_2_20180726T19524_20180726T19526_C011 Cos. OFFL_SR_COPM_2_20180726T19525_20180726T19526_C011 Cos. OFFL_SR_COPM_2_20180726T19525_20180726T19526_C011 Cos. OFFL_SR_COPM_2_20180726T19525_20180726T19526_C011 Cos. OFFL_SR_COPM_2_20180726T19525_20180726T19526_C011 Cos. OFFL_SR_COPM_2_20180726T19525_20180726T19500_C011 Cos. OFFL_SR_COPM_2_20180726T19525_20180726T19500_C011 Cos. OFFL_SR_COPM_2_20180726T19505_20180726T19500_C011 Cos. OFFL_SR_COPM_2_20180726T19509_20180726T19500_C011 Cos. OFFL_SR_COPM_2_20180726T19509_20180726T195000_C011 Cos. OFFL_SR_COPM_2_20180726T19509_20180726T195000_C011 Cos. OFFL_SR_COPM_2_20180726T19509_20180726T195000_C011 Cos. OFFL_SR_COPM_2_20180726T19509_20180726T20018_C011 Cos. OFFL_SR_COPM_2_20180726T219509_20180726T20018_C011 Cos. OFFL_SR_COPM_2_20180726T219509_20180726T20018_C011 Cos. OFFL_SR_COPM_2_20180726T219509_20180726T20018_C011 Cos. OFFL_SR_COPM_2_20180726T219509_20180726T20018_C011 Cos. OFFL_SR_COPM_2_20180726T219509_20180726T20018_C011 Cos. OFFL_SR_COPM_2_20180726T219509_	CS_OFFL_SIR_GOPM_2_20180726T155046_20180726T155156_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CG_OFFL_SIR_GOPM_2_20160726716342_20160726710436_C001 CG_OFFL_SIR_GOPM_2_20160726710346_20160726710436_C001 CG_OFFL_SIR_GOPM_2_20160726710346_20160726710436_C001 CG_OFFL_SIR_GOPM_2_20160726710346_20160726710436_C001 CG_OFFL_SIR_GOPM_2_20160726710346_20160726710406_C001 CG_OFFL_SIR_GOPM_2_201607267103406_20160726710406_C001 CG_OFFL_SIR_GOPM_2_201607267103406_201607267109706_C001 CG_OFFL_SIR_GOPM_2_201607267103406_201607267109706_C001 CG_OFFL_SIR_GOPM_2_201607267103406_201607267109706_C001 CG_OFFL_SIR_GOPM_2_201607267103406_C001 CG_OFFL_SIR_GOPM_2_20160726	CS_OFFL_SIR_GOPM_2_20180726T155354_20180726T155414_C001	Ocean Range Averaging Status	
CS_OFF_SR_GOPM_2_20180726T16346_20180726T170426_C001 CS_OFF_SR_GOPM_2_20180726T16346_20180726T170020_C001 CS_OFF_SR_GOPM_2_20180726T16346_20180726T181000_C001 CS_OFF_SR_GOPM_2_20180726T16346_20180726T181000_C001 CS_OFF_SR_GOPM_2_20180726T16346_20180726T182144_C001 CS_OFF_SR_GOPM_2_20180726T181606_20180726T182144_C001 CS_OFF_SR_GOPM_2_20180726T18256_20180726T18230_C001 CS_OFF_SR_GOPM_2_20180726T19256_20180726T18230_C001 CS_OFF_SR_GOPM_2_20180726T19356_20180726T18230_C001 CS_OFF_SR_GOPM_2_20180726T193561_20180726T19353_C001 CS_OFF_SR_GOPM_2_20180726T193561_20180726T19353_C001 CS_OFF_SR_GOPM_2_20180726T193551_20180726T20018_C001 CS_OFF_SR_GOPM_2_20180726T193551_20180726T20018_C001 CS_OFF_SR_GOPM_2_20180726T193551_20180726T20018_C001 CS_OFF_SR_GOPM_2_20180726T193551_20180726T20018_C001 CS_OFF_SR_GOPM_2_20180726T193550_C0180726T200550_C0180726T200550_C00180726T200550_	CS_OFFL_SIR_GOPM_2_20180726T155516_20180726T161138_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
So CPFL_SIR_GOPM_2_20180728T19585_20180728T195020_C001 Ocean Range Averaging Status Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or more records. Fine Cocean Range Averaging Status Flag has been set for one or m	CS_OFFL_SIR_GOPM_2_20180726T162742_20180726T162958_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180728T192322_20180728T19265182104_C001 CS_OFFL_SIR_GOPM_2_20180728T182656_20180728T18440_C001 CS_OFFL_SIR_GOPM_2_20180728T182656_20180728T184583_C001 CS_OFFL_SIR_GOPM_2_20180728T182656_20180728T184583_C001 CS_OFFL_SIR_GOPM_2_20180728T182656_20180728T194583_C001 CS_OFFL_SIR_GOPM_2_20180728T182656_20180728T194583_C001 CS_OFFL_SIR_GOPM_2_20180728T192656_20180728T20018_C001 CS_OFFL_SIR_GOPM_2_20180728T192656_20180728T20018_C001 CS_OFFL_SIR_GOPM_2_20180728T192656_20180728T20018_C001 CS_OFFL_SIR_GOPM_2_20180728T206465_20180728T20018_C001 CS_OFFL_SIR_GOPM_2_20180728T20550_20180728T20018_C001 CS_OFFL_SIR_GOPM_2_20180728T20550_20180728T20018_C001 CS_OFFL_SIR_GOPM_2_20180728T20550_20180728T201850_C001 CS_OFFL_SIR_GOPM_2_20180728T20550_20180728T201850_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T223404_C001 CS_OFFL_SIR_GOPM_2_20180728T2231354_C0180728T23000_C001 CS_OFFL_SIR_GOPM_2_20180728T2231354_C0180728T23000_C001 CS_OFFL_SIR_GOPM_2_20180728T2231354_C0180728T23000_C001 CS_OFFL_SIR_GOPM_2_20180728T231354_C0180728T23000_C001 CS_OFFL_SIR_GOPM_2_20180728T231354_C0180728T23000_C001 CS_OFFL_SIR_GOPM_2_20180728T231354_C0180728T23000_C001 CS_OFFL_SIR_GOPM_2_20180728T231354_C0180728T23000_C001 CS_OFFL_SIR_GOPM_2_20180728T231354_C0180728T13320_C001 CCS_OFFL_SIR_GOPM_2_20180728T231354_C0180728T13320_C001 CCS_OFFL_SIR_GOPM_2_20180728T13350_C001 CCS_OFFL_SIR_GOPM_2_20180728T13350_C001 CCS_OFFL_SIR_GOPM_2_20180728T13350_C001 CCS_OFFL_SIR_GOPM_2_20180728T13350_C001 CCS_OFFL_SIR_GOPM_2_20180728T13350_C001 CCS_OFFL_SIR_GOPM_2_20180728T13350_C001 CCCCCR_GOPM_2_20180728T13550_20180728T13350_C001 CCCCR_GOPM_2_20180728T13550_20180728T13350_C001 CCCCR_GOPM_2_20180728T13550_2018	CS_OFFL_SIR_GOPM_2_20180726T163458_20180726T164257_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPM_2_201807267193262_201807267194309_C001 CS_OFFL_SIR_GOPM_2_201807267192104_201807267194309_C001 CS_OFFL_SIR_GOPM_2_201807267193210_201807267193239_C001 CS_OFFL_SIR_GOPM_2_201807267193210_201807267193239_C001 CS_OFFL_SIR_GOPM_2_201807267193210_201807267193239_C001 CS_OFFL_SIR_GOPM_2_201807267193210_201807267193239_C001 CS_OFFL_SIR_GOPM_2_201807267193816_201807267193239_C001 CS_OFFL_SIR_GOPM_2_201807267193816_2018072671932317_C001 CS_OFFL_SIR_GOPM_2_201807267200442_20180726720018_C001 CS_OFFL_SIR_GOPM_2_201807267200442_20180726720150452_C001 CS_OFFL_SIR_GOPM_2_201807267200552_2018072672015015001 CS_OFFL_SIR_GOPM_2_20180726720550_2018072672015015001 CS_OFFL_SIR_GOPM_2_20180726720550_201807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726720550_201807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726726720550_201807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726726720550_C001807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726726720550_C001807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726726720550_C001807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726720550_C001807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726720550_C001807267212650_C001 CS_OFFL_SIR_GOPM_2_20180726720550_C001807267212650_C001 CS_OFFL_SIR_GOPM_2_201807267221364_20180726723000_C001 CS_OFFL_SIR_GOPM_2_201807267223145_20180726723000_C001 CS_OFFL_SIR_GOPM_2_20180726723145_20180726723000_C001 CS_OFFL_SIR_GOPM_2_20180726723145_201807267230400_C001 CS_OFFL_SIR_GOPM_2_20180726723145_201807267133532_C001 CS_OFFL_SIR_GOPM_2_20180726713341_201807267133532_C001 CS_OFFL_SIR_GOPM_2_20180726713342_01807267135326_C001 CS_OFFL_SIR_GOPM_2_201807267133142_01807267135326_C001 CS_OFFL_SIR_GOPM_2_201807267133142_01807267135326_C001 CS_OFFL_SIR_GOPM_2_201807267133142_01807267135326_C001 CS_OFFL_SIR_GOPM_2_201807267136426_C018072671305300_C001 CS_OFFL_SIR_GOPM_2_201807267133144_C0018072671304520_C001 CS_OFFL_SIR_GOPM_2_2018072671394420_C018072671304520_C001 CS_OFFL_SIR_GOPM_2_2018072671394420_C018072671394520_C001 CS_OFFL_SIR_GOPM_2_201807267195432_2018072671952	CS_OFFL_SIR_GOPM_2_20180726T164555_20180726T170020_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_201807267138259_201807267139329_C0001 Ocean Range Averaging Status 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 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 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 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 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 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 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 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 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 record	CS_OFFL_SIR_GOPM_2_20180726T173723_20180726T181000_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180726T193316_20180726T1938239_C001 Coean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more exords. The Ocean Range Averaging Status Flag has been set for one or more exords. CS_OFFL_SIR_GOPM_2_20180726T193316_20180726T190018_C001 CS_OFFL_SIR_GOPM_2_20180726T200455_20180726T20018_C001 CS_OFFL_SIR_GOPM_2_20180726T200455_20180726T20018_C001 CS_OFFL_SIR_GOPM_2_20180726T200455_20180726T20018_C001 CS_OFFL_SIR_GOPM_2_20180726T20355_20180726T20453_C001 CS_OFFL_SIR_GOPM_2_20180726T20355_20180726T214024_C001 CS_OFFL_SIR_GOPM_2_20180726T223445_20180726T240424_C001 CS_OFFL_SIR_GOPM_2_20180726T223446_20180726T224199_C001 CS_OFFL_SIR_GOPM_2_20180726T223446_20180726T231906_C001 CS_OFFL_SIR_GOPM_2_20180726T23354_20180726T231906_C001 CS_OFFL_SIR_GOPM_2_20180726T232446_20180726T231906_C001 CS_OFFL_SIR_GOPM_2_20180726T232415_20180726T231906_C001 CS_OFFL_SIR_GOPM_2_20180726T232415_20180726T231906_C001 CS_OFFL_SIR_GOPM_2_20180726T232415_20180726T231906_C001 CS_OFFL_SIR_GOPM_2_20180726T232415_20180726T31906_C001 CS_OFFL_SIR_GOPM_2_20180726T32345_20180726T31906_C001 CS_OFFL_SIR_GOPM_2_20180726T32345_20180726T31906_C001 CS_OFFL_SIR_GOPM_2_20180726T32345_20180726T31906_C001 CS_OFFL_SIR_GOPM_2_20180726T32345_20180726T31906_C001 CS_OFFL_SIR_GOPM_2_20180726T32345_20180726T313406_C001 CS_OFFL_SIR_GOPM_2_20180726T32345_20180726T33406_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33406_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33406_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33406_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33406_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33406_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33450_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33450_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T33450_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T3345_C001 CS_OFFL_SIR_GOPM_2_20180726T3345_20180726T3345_C001 CS_OFFL_SIR_GOPM_2_20180726T3454_20180726T3345_C001 CS_OFFL_SIR_GOPM_2_20180726T340320_20	CS_OFFL_SIR_GOPM_2_20180726T181608_20180726T182144_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180726T193816_20180726T194839_C001 CS_OFFL_SIR_GOPM_2_20180726T195541_20180726T20018_C001 CS_OFFL_SIR_GOPM_2_20180726T195541_20180726T20157_C001 CS_OFFL_SIR_GOPM_2_20180726T20353_20180726T20157_C001 CS_OFFL_SIR_GOPM_2_20180726T20353_20180726T20157_C001 CS_OFFL_SIR_GOPM_2_20180726T20353_20180726T20153_C001 CS_OFFL_SIR_GOPM_2_20180726T20353_20180726T20153_C001 CS_OFFL_SIR_GOPM_2_20180726T20353_20180726T20153_C001 CS_OFFL_SIR_GOPM_2_20180726T20353_20180726T20153_C001 CS_OFFL_SIR_GOPM_2_20180726T20353_20180726T0180726T20180726T100180726T20180726T20180726T20180726T20180726T100180726T20180726T20180726T100180726T20180726T20180726T100180726T20180726T100180726T20180726T100180726T20180726T100180726T20180726T100180726T201	CS_OFFL_SIR_GOPM_2_20180726T182559_20180726T184930_C001	Ocean Range Averaging Status	
CS_OFF_SIR_GOPM_2_20180728T195541_20180728T20018 C001 CS_OFF_SIR_GOPM_2_20180728T20045_20180728T20018728T20018 C001 CS_OFF_SIR_GOPM_2_20180728T20045_20180728T204153_C001 CS_OFF_SIR_GOPM_2_20180728T203552_20180728T204153_C001 CS_OFF_SIR_GOPM_2_20180728T203552_20180728T212653_C001 CS_OFF_SIR_GOPM_2_20180728T203552_20180728T212653_C001 CS_OFF_SIR_GOPM_2_20180728T213451_20180728T214054_C001 CS_OFF_SIR_GOPM_2_20180728T213451_20180728T2140524_C001 CS_OFF_SIR_GOPM_2_20180728T213451_20180728T21205000 CS_OFF_SIR_GOPM_2_20180728T213451_20180728T222159_C001 CS_OFF_SIR_GOPM_2_20180728T221402_40180728T222159_C001 CS_OFF_SIR_GOPM_2_20180728T233442_20180728T230700_C001 CS_OFF_SIR_GOPM_2_20180728T233451_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T233452_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33345_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33345_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33345_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33345_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33345_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33455_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33455_20180728T230900_C001 CS_OFF_SIR_GOPM_2_20180728T33455_20180728T33000 CS_OFF_SIR_GOPM_2_20180728T33455_20180728T33000 CS_OFF_SIR_GOPM_2_20180728T33455_20180728T133500_C001 CS_OFF_SIR_GOPM_2_20180728T13450_20180728T135000 CS_OFF_SIR_GOPM_2_20180728T130030_20180728T135000 CS_OFF_SIR_GOPM_2_20180728T130030_20180728T135000 CS_OFF_SIR_GOPM_2_20180728T130030_20180728T13055000 CS_OFF_SIR_GOPM_2_20180728T130030_20180728T13055000 CS_OFF_SIR_GO	CS_OFFL_SIR_GOPM_2_20180726T192104_20180726T193239_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_201807287200445_201807287120852_C010 CS_OFFL_SIR_GOPM_2_20180728720552_201807287120852_C010 CS_OFFL_SIR_GOPM_2_201807287120852_C01807287121855_C001 CS_OFFL_SIR_GOPM_2_201807287120852_C01807287121855_C001 CS_OFFL_SIR_GOPM_2_201807287120852_C01807287121855_C001 CS_OFFL_SIR_GOPM_2_201807287120852_C01807287121855_C001 CS_OFFL_SIR_GOPM_2_201807287120872871201807287121807287120180728712080728712	CS_OFFL_SIR_GOPM_2_20180726T193816_20180726T194839_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPM_2_20180726T203553_20180726T204153_C001 Ocean Range Averaging Status Fecords. CS_OFFL_SIR_GOPM_2_20180726T205520_20180726T212653_C001 Ocean Range Averaging Status Fecords. CS_OFFL_SIR_GOPM_2_20180726T205520_20180726T212653_C001 CS_OFFL_SIR_GOPM_2_20180726T213451_20180726T214024_C001 CS_OFFL_SIR_GOPM_2_20180726T213451_20180726T22159_C001 Ocean Range Averaging Status Fecords. 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 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 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 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 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 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 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 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 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 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 records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging	CS_OFFL_SIR_GOPM_2_20180726T195541_20180726T200018_C001	Ice Range Averaging Status	
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CS_OFFL_SIR_GOPN_2_20180726T131504_20180726T131744_C001 CS_OFFL_SIR_GOPN_2_20180726T131504_20180726T131744_C001 CS_OFFL_SIR_GOPN_2_20180726T155156_20180726T155328_C001 CS_OFFL_SIR_GOPN_2_20180726T155156_20180726T173010_C001 CS_OFFL_SIR_GOPN_2_20180726T172854_20180726T173010_C001 CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T190415_C001 CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T190415_C001 CS_OFFL_SIR_GOPN_2_20180726T095112_20180726T195253_C001 CS_OFFL_SIR_GOPN_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T04529_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T13318_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T190332_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C0	CS_OFFL_SIR_GOPN_2_20180726T064216_20180726T064222_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20180726T155156_20180726T155328_C001 CS_OFFL_SIR_GOPN_2_20180726T172854_20180726T173010_C001 CS_OFFL_SIR_GOPN_2_20180726T172854_20180726T190415_C001 CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T190415_C001 CS_OFFL_SIR_GOPN_2_20180726T195112_20180726T195253_C001 CS_OFFL_SIR_GOPN_2_20180726T195112_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T130831_20180726T04504_C001 CS_OFFL_SIR_GOPR_2_20180726T130831_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T196839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T19689_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T19689_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T19689_20180726T195112_C001 CC_OCEAN Range Averaging Status 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 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 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 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 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 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 records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been	CS_OFFL_SIR_GOPN_2_20180726T113412_20180726T113532_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T190415_C001	CS_OFFL_SIR_GOPN_2_20180726T131504_20180726T131744_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T190415_C001 CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T195253_C001 CS_OFFL_SIR_GOPN_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T20943_C001 CCG_OFFL_SIR_GOPR_2_20180726T20903_20180726T20943_C001 CCG_OFFL_SIR_GOPR_	CS_OFFL_SIR_GOPN_2_20180726T155156_20180726T155328_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPN_2_20180726T195112_20180726T195253_C001 CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T20943_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T209	CS_OFFL_SIR_GOPN_2_20180726T172854_20180726T173010_C001	Ice Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T29093_20180726T290943_C001 CS_OFFL_SIR_GOPR_2_20180726T29093_20180726T290943_C001 CS_OFFL_SIR_GOPR_2_20180726T29093_20180726T290943_C001 CC=ARange 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 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 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 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 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 records.	CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T190415_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T20943_C001 CS_OFFL_SIR_GOPR_2_20180726T20943_C001 CS_OFFL_SIR_	CS_OFFL_SIR_GOPN_2_20180726T195112_20180726T195253_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001 CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T220943_C001 CS_OFFL_SIR_GOPR_2_20180726T220903_20180726T220943_C001 CS_OFFL_SIR_GOPR_2_20180726T220943_C001	CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20180726T13033_20180726T131504_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T20943_C001 CS_OFFL_SIR_GOPR_2_20180726T20943_C001 CS_OFFL_SIR_GOPR_2_20	CS_OFFL_SIR_GOPR_2_20180726T045429_20180726T045544_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001 CS_OFFL_SIR_GOPR_2_20180726T20903_20180726T20943_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 records.	CS_OFFL_SIR_GOPR_2_20180726T123033_20180726T123318_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_GOPR_2_201807261194639_20180726120943_C001 CS_OFFL_SIR_GOPR_2_201807261220903_201807261220943_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_GOPR_2_20180726T130811_20180726T131504_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_GOPR_2_20180726T194839_20180726T195112_C001	Ocean Range Averaging Status	records.
	CS_OFFL_SIR_GOPR_2_20180726T220903_20180726T220943_C001	Ocean Range Averaging Status	

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOPM_2_20180726T000414_20180726T000537_C001	lice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T000544_20180726T000952_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T001456_20180726T002459_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T002647_20180726T003404_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_20180726T003447_20180726T003920_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T010120_20180726T013639_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_20180726T013914_20180726T014435_C001	lice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T015537_20180726T020807_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T020814 20180726T022547 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T024650_20180726T025855_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T030059_20180726T031551_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T031832_20180726T032332_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T032353_20180726T032404_C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR GOPM 2 20180726T033250 20180726T034314 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T034933 20180726T040424 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T043635_20180726T043723_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T044058_20180726T045429_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T045747_20180726T050244_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T051042_20180726T054304_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T061056 20180726T063310 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T063830_20180726T064200_C001 Ice Backscatter Averaging Status records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T064222_20180726T064550_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T064912 20180726T071501 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T071504_20180726T071724_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPM_2_20180726T074902_20180726T081315_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20180726T081612 20180726T082114 C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T082121_20180726T082449_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T082908_20180726T083924_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T084500 20180726T090235 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T091447_20180726T092129_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T092758 20180726T093504 C001 Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T094759 20180726T095219 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20180726T095611 20180726T100146 C001 Ice Backscatter Averaging Status records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPM_2_20180726T100908_20180726T104154_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS_OFFL_SIR_GOPM_2_20180726T104204_20180726T104441_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T105404_20180726T105552_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T111414 20180726T113018 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T113532_20180726T114041_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T114733_20180726T122315_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T123318 20180726T123357 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T124516_20180726T124936_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T125032_20180726T130811_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T131744_20180726T131944_C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T132719_20180726T134404_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T134845 20180726T140312 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T141536 20180726T143334 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T143458_20180726T144855_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T145653_20180726T145853_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR GOPM 2 20180726T150001 20180726T150356 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T150613_20180726T152113_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T152315 20180726T153237 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T155046_20180726T155156_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T155354_20180726T155414_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T155516 20180726T161138 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T162742_20180726T162958_C001 **Backscatter Averaging Status** more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS_OFFL_SIR_GOPM_2_20180726T163458_20180726T164257_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR GOPM 2 20180726T164555 20180726T170020 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS_OFFL_SIR_GOPM_2_20180726T173723_20180726T181000_C001 Backscatter Averaging Status more records.

CS OFFL SIR GOPM 2 20180726T181332 20180726T181541 C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
C3_011	ice backscatter Averaging Status	records.
CS_OFFL_SIR_GOPM_2_20180726T181608_20180726T182144_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T182559_20180726T184930_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_20180726T192104_20180726T193239_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_20180726T193816_20180726T194839_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_20180726T195541_20180726T200018_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T200112_20180726T200136_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T200445_20180726T203157_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_20180726T203553_20180726T204153_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_20180726T205520_20180726T212653_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_20180726T213451_20180726T214024_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T221917_20180726T222159_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_20180726T223404_20180726T230700_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_20180726T231354_20180726T231906_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPM_2_20180726T232415_20180726T234049_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_20180726T064216_20180726T064222_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180726T113412_20180726T113532_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180726T131504_20180726T131744_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180726T155156_20180726T155328_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_20180726T172854_20180726T173010_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPN_2_20180726T190343_20180726T190415_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_20180726T195112_20180726T195253_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOPR_2_20180726T043210_20180726T043635_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_20180726T045429_20180726T045544_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_20180726T123033_20180726T123318_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_20180726T130811_20180726T131504_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_20180726T130811_20180726T131504_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_20180726T130811_20180726T131504_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). 0

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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180726T091109_20180726T100048_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_GOP_220180726T181656_20180726T190631_C001	Power 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.

Number of products with errors:

29

Product	Test Failed	Description
CS_OFFL_SIR_GOP_220180725T231548_20180726T000526_C002	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T000526_20180726T005501_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_20180726T005501_20180726T014440_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_20180726T014440_20180726T023415_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_20180726T023415_20180726T032353_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_20180726T032353_20180726T041328_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T041328_20180726T050307_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_20180726T050307_20180726T055242_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T055242_20180726T064221_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_20180726T064221_20180726T073156_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_20180726T073156_20180726T082134_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_20180726T082134_20180726T091109_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T091109_20180726T100048_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_20180726T100048_20180726T105023_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_20180726T105023_20180726T114001_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T114001_20180726T122936_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_20180726T122936_20180726T131915_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T131915_20180726T140850_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T140850_20180726T145828_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_20180726T145828_20180726T154803_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T154803_20180726T163742_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_20180726T163742_20180726T172717_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_20180726T172717_20180726T181656_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_20180726T181656_20180726T190631_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_20180726T190631_20180726T195609_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T195609_20180726T204544_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_20180726T204544_20180726T213523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180726T213523_20180726T2222458_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_20180726T222458_20180726T231437_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.

Product	Test Failed	Description
CS_OFFL_SIR_GOP_2_20180725T231548_20180726T000526_C002	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T000526_20180726T005501_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_20180726T005501_20180726T014440_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_20180726T014440_20180726T023415_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_20180726T023415_20180726T032353_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_20180726T032353_20180726T041328_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_20180726T041328_20180726T050307_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_20180726T050307_20180726T055242_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_20180726T055242_20180726T064221_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_20180726T064221_20180726T073156_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_20180726T073156_20180726T082134_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_20180726T082134_20180726T091109_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_20180726T091109_20180726T100048_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_20180726T100048_20180726T105023_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_20180726T105023_20180726T114001_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_20180726T114001_20180726T122936_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_20180726T122936_20180726T131915_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_20180726T131915_20180726T140850_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_20180726T140850_20180726T145828_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_20180726T145828_20180726T154803_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_20180726T154803_20180726T163742_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_20180726T163742_20180726T172717_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_20180726T172717_20180726T181656_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_20180726T181656_20180726T190631_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_20180726T190631_20180726T195609_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_20180726T195609_20180726T204544_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_20180726T204544_20180726T213523_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_20180726T213523_20180726T222458_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_20180726T222458_20180726T231437_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_20180726T000526_20180726T005501_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T005501_20180726T014440_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T014440_20180726T023415_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T023415_20180726T032353_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T032353_20180726T041328_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T050307_20180726T055242_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T064221_20180726T073156_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T073156_20180726T082134_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T082134_20180726T091109_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T091109_20180726T100048_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T100048_20180726T105023_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T105023_20180726T114001_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_GOP_220180726T114001_20180726T122936_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T122936_20180726T131915_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T131915_20180726T140850_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T140850_20180726T145828_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T145828_20180726T154803_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T154803_20180726T163742_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T172717_20180726T181656_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T181656_20180726T190631_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T190631_20180726T195609_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T195609_20180726T204544_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T204544_20180726T213523_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_2_20180726T213523_20180726T222458_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_GOP_220180726T222458_20180726T231437_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.