



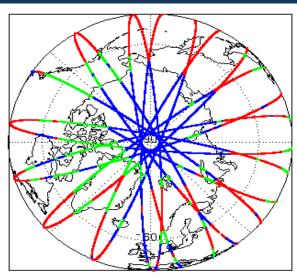
1. Overview

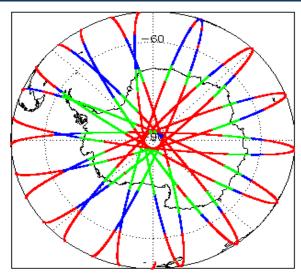
Report Production:	23-Jul-2018
Processor Used:	CryoSat Ocean Processor
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data

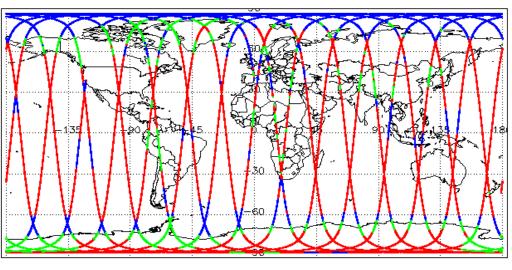
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary 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 / Instru	ment News
18-Jul-2018	None
19-Jul-2018	None
20-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. IOP 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 IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180719T120002_20180719T120146_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 products over land, but this is to be expected.

Number of products with errors: 1

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180719T034743_20180719T035713_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T032534_20180719T033045_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T042329_20180719T042942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T050755_20180719T050931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T150829_20180719T150950_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T154846_20180719T155444_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T165139_20180719T165359_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T182707_20180719T183157_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T195915_20180719T200015_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T231422_20180719T231549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180719T232936_20180719T233011_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180719T000228_20180719T000351_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180719T092412_20180719T092740_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180719T120146_20180719T120315_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180719T165007_20180719T165138_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP 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:

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:

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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180719T120002_20180719T120146_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180719T002013_20180719T005530_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T010124_20180719T010338_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T010345_20180719T010758_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T011245_20180719T013833_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T013850_20180719T014618_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_IOPM_2_20180719T014843_20180719T015016_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T015853_20180719T021313_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T021753_20180719T021932_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T021936_20180719T023449_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180719T023717_20180719T024237_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T024256_20180719T024503_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T025351_20180719T030613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T030812_20180719T032534_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T034743_20180719T035713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T035916_20180719T041346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T041642_20180719T042137_C001	Ice Range Averaging Status	The loc Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T042212_20180719T042329_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T043039_20180719T043222_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
	Ocean Range Averaging Status	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_IOPM_2_20180719T055625_20180719T060104_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_IOPM_2_20180719T060826_20180719T064158_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T070700_20180719T073150_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T073500_20180719T074005_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T074008_20180719T074018_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180719T074024_20180719T074349_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T074724_20180719T075820_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T080354_20180719T081348_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T081518_20180719T081841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T084457_20180719T091124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T091438_20180719T091918_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T091921_20180719T092254_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T092740_20180719T100040_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T101307_20180719T101553_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR IOPM 2 20180719T104453 20180719T104729 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180719T105422 20180719T105944 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T110647_20180719T112754_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T113039_20180719T114212_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_IOPM_2_20180719T115146_20180719T115556_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T121155_20180719T121644_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T121832_20180719T122843_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T123422_20180719T123843_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180719T124555_20180719T125056_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T125105_20180719T132208_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T133656_20180719T140621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T142102_20180719T142215_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T142519_20180719T144212_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T144653_20180719T145401_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T150950_20180719T151309_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T151521_20180719T153052_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
		records.

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CS_OFFL_SIR_IOPM_2_20180719T153306_20180719T154751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T155738_20180719T160159_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T160435_20180719T161841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T162020_20180719T163559_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T165711_20180719T170420_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T170542_20180719T170855_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T171401_20180719T172831_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T173232_20180719T174106_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T174424_20180719T180609_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T183425_20180719T190805_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T191430_20180719T191909_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T192405_20180719T194844_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T202052_20180719T203047_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T203625_20180719T204618_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T205348_20180719T205942_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T210232_20180719T212041_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T212044_20180719T212914_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T213835_20180719T214008_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T215219_20180719T222530_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T223255_20180719T223813_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T224156_20180719T224253_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T224452_20180719T224631_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T231549_20180719T231944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T232914_20180719T232936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T233011_20180719T234055_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T234341_20180720T000455_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180719T015017_20180719T015131_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180719T074018_20180719T074024_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180719T164754_20180719T165006_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180719T170420_20180719T170542_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180719T191910_20180719T192126_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180719T205124_20180719T205347_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180719T100841_20180719T101307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180719T210110_20180719T210231_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 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_IOPM_2_20180719T002013_20180719T005530_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_IOPM_2_20180719T010345_20180719T010758_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T011245_20180719T013833_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_IOPM_2_20180719T013850_20180719T014618_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_IOPM_2_20180719T014618_20180719T014643_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_IOPM_2_20180719T014843_20180719T015016_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T015853_20180719T021313_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_IOPM_2_20180719T021936_20180719T023449_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_IOPM_2_20180719T023717_20180719T024237_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

Comparigned			
Secretification (1997) Secretification (1997	CS_OFFL_SIR_IOPM_2_20180719T024256_20180719T024503_C001	Ice Backscatter Averaging Status	
Section Company Design Property Company Company Design Company Design Company Design Company Design Company Design Company Design	CS_OFFL_SIR_IOPM_2_20180719T025351_20180719T030613_C001		
De Confugiliario (Particulor) de la contraction	CS_OFFL_SIR_IOPM_2_20180719T030812_20180719T032534_C001		
Self-Big (DML) 2 poster/19 (DM	CS_OFFL_SIR_IOPM_2_20180719T034743_20180719T035713_C001	SWH Averaging Status, Ocean	
Description of Description Amening Status Play has been and for one or more concept, participation of the particip	CS_OFFL_SIR_IOPM_2_20180719T035916_20180719T041346_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Sept. Sell. Q. 2010/16164154, 2010/16164255, COID Sept. Sell. Q. 2010/16164154, 2010/16164275, COID Sept. Sell. Q. 2010/1616431, 2010/1616437, 2010/1616437, COID Sept. Sell. Q. 2010/1616431, 2010/1616437, 2010/1616437, COID Sept. Sell. Q. 2010/1616432, 2010/1616432, 2010/1616432, COID Sept. Sell. Q. 2010/1616432, 2010/1616433, COID Sept. Sell. Q. 2010/1616432, 2010/1616434, COID Sept. Sell. Q. 2010/1616432, 2010/161644, COID Sept. Sell. Q. 2010/1616432, 2010/1616444, COID Sept. Sell. Q. 2010/1616432, 2010/1616444, COID Sept. Sell. Q. 2010/1616443, 2010/1616444, COID Se	CS_OFFL_SIR_IOPM_2_20180719T041642_20180719T042137_C001		The Ice Backscatter Averaging Status Flag has been set for one or more
SO OFFL. SRI JONE, 2. 2010/07/9704491, 2010/07/9704091, 2010/07/9704491, 2010/07/9704091, 2010/07/9704491, 2010/07/9704916, 2	CS_OFFL_SIR_IOPM_2_20180719T042154_20180719T042205_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
SWH Averaging Status. Ceam SWH Averaging Status. Ceam The SWH and Ocean Averaging Status Flags have been set for one or a more record. SWH Averaging Status. Ceam The SWH and Ocean Averaging Status Flags have been set for one or a more record. SWH Averaging Status. Ceam The SWH and Ocean Averaging Status Flags have been set for one or a more record. SWH Averaging Status. Ceam The SWH and Ocean Averaging Status Flags have been set for one or a more record. SWH Averaging Status. Ceam The SWH and Ocean Averaging Status Flags have been set for one or a more record. SWH Averaging Status. Ceam SWH Averaging Status. Ceam The SWH and Ocean Averaging Status Flags have been set for one or a more record. SWH Averaging Status. Ceam SWH Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more record. The SWH and Ocean Averaging Status Flags have been set for one or a more r	CS_OFFL_SIR_IOPM_2_20180719T043039_20180719T043222_C001		The SWH and Ocean Averaging Status Flags have been set for one or
SQ. GPTL_SIR_JONN_2_201807197053252_201807197061941_C001 SQ. GPTL_SIR_JONN_2_201807197053252_201807197061941_C001 SQ. GPTL_SIR_JONN_2_201807197060262_201807197061941_C001 SQ. GPTL_SIR_JONN_2_20180719707062_20180719707180_C001 SQ. GPTL_SIR_JONN_2_20180719707062_20180719707802_C001 SQ. GPTL_SIR_JONN_2_20180719707072_20180719707802_C001 SQ. GPTL_SIR_JONN_2_20180719707072_20180719707802_C001 SQ. GPTL_SIR_JONN_2_20180719707072_20180719707802_C001 SQ. GPTL_SIR_JONN_2_2018071970718032_C001 SQ. GPTL_SIR_JONN_2_2018071970718032_C001 SQ. GPTL_SIR_JONN_2_2018071970718032_C001 SQ. GPTL_SIR_JONN_2_2018071970718032_C001 SQ. GPTL_SIR_JONN_2_2018071970718032_C001 SQ. GPTL_SIR_JONN_2_20180719707180332_C001 SQ. GPTL_SIR_JONN_2_20180719707180332_C0010 SQ. GPTL_SIR_JONN_2_2018071970718032_C0010 SQ. GPTL_SIR_JONN_2_2018071970718032_C0010 SQ. GPTL_SIR_JONN_2_2018071970718032_C0010 SQ. GPTL_SIR_JONN_2_2018071970718032_C0010 SQ. GPTL_SIR_JONN_2_2018071970718032_C0010 SQ. GPTL_SIR_JONN_2_2018071970718032_C0010 SQ. GPTL_SIR_JONN_2_20180719707180332_C0010 SQ. GPTL_SIR_JONN_2_20180719707180332_C0010 SQ. GPTL_SIR_JONN_2_20180719707180332_C0010 SQ. GPTL_SIR_JONN_2_20180719707180332_C0010 SQ. GPTL_SIR_JONN_2_20180719707180332_C0010 SQ. GPTL_SIR_JONN_2_201807197180332_C0010 SQ. GPTL_SIR_JONN_2_201807197180332_C0010 SQ. GPTL_SIR_JONN_2_201807197180332_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010719718032_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010719718032_C0010 SQ. GPTL_SIR_JONN_2_201807197118032_C0010719718032_C0010 SQ. GPTL_SIR_JONN	CS OFFL SIR IOPM 2 20180719T044911 20180719T050038 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
Experimental control of the control		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SOFFL_SIR_JOPM_2_2018071970700_20180719707450_C001 SOFFL_SIR_JOPM_2_20180719707700_20180719707450_C001 SOFFL_SIR_JOPM_2_201807197074724_20180719707450_C001 SOFFL_SIR_JOPM_2_201807197074724_20180719707450_C001 SOFFL_SIR_JOPM_2_201807197074724_20180719707450_C001 SOFFL_SIR_JOPM_2_201807197074724_20180719708184]_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708184]_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708184]_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708184]_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708184]_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708185_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708254_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708254_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708254_C001 SOFFL_SIR_JOPM_2_2018071970848_20180719708254_C001 SOFFL_SIR_JOPM_2_20180719709182_201807197108254_C001 SOFFL_SIR_JOPM_2_201807197109182_201807197108254_C001 SOFFL_SIR_JOPM_2_201807197109187_201807197108254_C001 SOFFL_SIR_JOPM_2_201807197109187_201807197108254_C001 SOFFL_SIR_JOPM_2_201807197109187_201807197108254_C001 SOFFL_SIR_JOPM_2_201807197109187_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710191012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_1004_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197108254_C001 SOFFL_SIR_JOPM_2_20180719710101012_201807197101042_0018071971014254_C001 SOFFL_SIR_JOPM_2_201807197101101254_C001 SOFFL_SIR_JOPM_2_20180719711285_20180719712856_C001 SOFFL_SIR_JOPM_2_20180719711285_20180719712856_C001 SOFFL_SIR_JOPM_2_201807197112855_20180719712856_C001 SOFFL_SIR_JOPM_2_20180719711148			The Ice Backscatter Averaging Status Flag has been set for one or more
OS, OFFL_SIR_JOPM_2_20180719170730_20180719170739_CO01 SOFFL_SIR_JOPM_2_2018071970740_20180719170739_CO01 SOFFL_SIR_JOPM_2_2018071970740_2018071970739_CO01 SOFFL_SIR_JOPM_2_201807197091919_20180719708194_CO01 SOFFL_SIR_JOPM_2_201807197091919_20180719708194_CO01 SOFFL_SIR_JOPM_2_201807197091919_20180719708194_CO01 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091910_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_201807197091919_CO10 SOFFL_SIR_JOPM_2_20180719709192_CO10 SOFFL_SIR_JOPM_2_20180719710092_CO10 SOFFL_SIR_JOPM_2_20180719710092_CO100719710092_CO10 SOFFL_SIR_JOPM_2_20180719710092_CO100719710092_CO10 SOFFL_SIR_JOPM_2_20180719710092_CO100719710092_CO100719710092_CO100719710092_CO100719710092_CO100719710092_CO100719710092_CO100719710092_CO100719710092_CO10		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_JOPM_2_20180719170424_20180719170434_C001 CS_OFFL_SIR_JOPM_2_20180719170474_201807191705826_C001 CS_OFFL_SIR_JOPM_2_201807191704472_201807191705182_C001 CS_OFFL_SIR_JOPM_2_201807191704472_201807191701142_C001 CS_OFFL_SIR_JOPM_2_201807191704472_201807191701142_C001 CS_OFFL_SIR_JOPM_2_201807191704472_201807191701142_C001 CS_OFFL_SIR_JOPM_2_201807191704472_201807191701142_C001 CS_OFFL_SIR_JOPM_2_201807191704472_001807191701044_C001 CS_OFFL_SIR_JOPM_2_20180719170493_201807191700342_C001 CS_OFFL_SIR_JOPM_2_20180719170493_201807191700342_C001 CS_OFFL_SIR_JOPM_2_20180719170493_201807191700342_C001 CS_OFFL_SIR_JOPM_2_20180719170493_201807191700342_C001 CS_OFFL_SIR_JOPM_2_201807191704432_C001 CS_OFFL_SIR_JOPM_2_201807191704432_C001 CS_OFFL_SIR_JOPM_2_201807191704432_C001 CS_OFFL_SIR_JOPM_2_201807191704432_C001 CS_OFFL_SIR_JOPM_2_201807191704432_C001 CS_OFFL_SIR_JOPM_2_201807191704432_C001 CS_OFFL_SIR_JOPM_2_2018071917104432_C001 CS_OFFL_SIR_JOPM_2_2018071917104432_C001 CS_OFFL_SIR_JOPM_2_2018071917104432_C001 CS_OFFL_SIR_JOPM_2_201807191710453_C01807191712244_C001 CS_OFFL_SIR_JOPM_2_201807191712182_C001 CS_OFFL_SIR_JOPM_2_201807191712182_C001 CS_OFFL_SIR_JOPM_2_201807191712842_C001 CS_OFFL_SIR_JOPM_2_20180719171283_C01807191712844_C001 CS_OFFL_SIR_JOPM_2_20180719171283		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
SO CPFL_SIR_JOPM_2_201807197104192_201807197109184_C001 SO CPFL_SIR_JOPM_2_201807197091812_201807197091841_C001 SO CPFL_SIR_JOPM_2_201807197091812_201807197091841_C001 SO CPFL_SIR_JOPM_2_201807197091812_201807197091841_C001 SO CPFL_SIR_JOPM_2_201807197091812_201807197091841_C001 SO CPFL_SIR_JOPM_2_201807197091812_201807197091841_C001 SO CPFL_SIR_JOPM_2_201807197091812_2018071970918141_C001 SO CPFL_SIR_JOPM_2_201807197091812_201807197091814_C001 SO CPFL_SIR_JOPM_2_201807197091812_201807197091825_C001 SO CPFL_SIR_JOPM_2_201807197091812_2018071971091916_C001 SO CPFL_SIR_JOPM_2_201807197101097_201807197101095_C001 SO CPFL_SIR_JOPM_2_201807197101097_201807197101095_C001 SO CPFL_SIR_JOPM_2_201807197101097_2018071971011025_C001 SO CPFL_SIR_JOPM_2_2018071971011097_20180719710111275_C001 SO CPFL_SIR_JOPM_2_2018071971101097_201807197111275_C001 SO CPFL_SIR_JOPM_2_201807197110142_C001 SO CPFL_SIR_JOPM_2_201807197110142_C001 SO CPFL_SIR_JOPM_2_201807197111432_201807197112284_C001 SO CPFL_SIR_JOPM_2_201807197111432_201807197112284_C001 SO CPFL_SIR_JOPM_2_20180719711432_20180719711422_C001 SO CPFL_SIR_JOPM_2_20180719711432_20180719711422_C001 SO CPFL_SIR_JOPM_2_20180719711432_20180719711422_C001 SO CPFL_SIR_JOPM_2_20180719711432_C0180719711422_C001 SO CPFL_SIR_JOPM_2_20180719711432_C0180719711422_C001 SO CPFL_SIR_JOPM_2_20180719711432_C0180719711422_C001 SO CPFL_SIR_JOPM_2_20180719712432_201807197112284_C001 SO CPFL_SIR_JOPM_2_20180719712432_C01807197112284_C001 SO CPFL_SIR_JOPM_2_20180719712432_C01807197113286_C001 SO CPFL_SIR_JOPM_2_20180719712432_C0180719713286_C001 SO CPFL_SIR_JOPM_2_20180719713386_C00197113422_C001 SO CPFL_SIR_JOPM_2_201807197151508_C00197113422_C001 SO CPFL_SIR_JOPM_2_20180719712509_C01807197131389_C00197131389_C001807131389_C0			The Ice Backscatter Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_LOPM_2_20180719710321_201807197100040_C001 SWH Averaging Status. Coan 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. SWH Averaging Status. Status St		Backscatter Averaging Status	more records.
CS_OFFL_SIR_OPM_2_20180719710382_0.001910353_0.001 SiVH Averaging Status, Ocean Backscatter Averaging Status (Csan Backs			records.
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CS_OFFL_SIR_IOPM_2_20180719T160435_20180719T161841_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status Status, Ocean Backscatter Averaging Sta	CS_OFFL_SIR_IOPM_2_20180719T155738_20180719T160159_C001		The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180719T162020_20180719T163559_C001 SWH Averaging Status, Ocean Backscatter Avera	CS_OFFL_SIR_IOPM_2_20180719T160435_20180719T161841_C001		The SWH and Ocean Averaging Status Flags have been set for one or
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CS_OFFL_SIR_IOPM_2_20180719T170542_20180719T170855_C001 SWH Averaging Status, Ocean Backscatter Averaging Status Backscatter Averaging Status SWH Averaging Status Coean 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	CS_OFFL_SIR_IOPM_2_20180719T165711_20180719T170420_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
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	CS_OFFL_SIR_IOPM_2_20180719T171401_20180719T172831_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
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CS_OFFL_SIR_IOPM_2_20180719T183425_20180719T190805_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180719T191430_20180719T191909_C001			The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180710T192405_20180710T194844_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or		SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180719T202052_20180719T203047_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or		SWH Averaging Status, Ocean	
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	oocolour loresoues_201007191204010_0001	Backscatter Averaging Status	more records.

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CS_OFFL_SIR_IOPM_2_20180719T205348_20180719T205942_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T210232_20180719T212041_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_IOPM_2_20180719T212044_20180719T212914_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_IOPM_2_20180719T213835_20180719T214008_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_IOPM_2_20180719T215219_20180719T222530_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_IOPM_2_20180719T223255_20180719T223813_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180719T224452_20180719T224631_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_IOPM_2_20180719T231549_20180719T231944_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_IOPM_2_20180719T233011_20180719T234055_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_IOPM_2_20180719T234341_20180720T000455_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_IOPN_2_20180719T015017_20180719T015131_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_IOPN_2_20180719T074018_20180719T074024_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180719T164754_20180719T165006_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_IOPN_2_20180719T170420_20180719T170542_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_IOPN_2_20180719T191910_20180719T192126_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_IOPN_2_20180719T205124_20180719T205347_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180719T100841_20180719T101307_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_IOPR_2_20180719T210110_20180719T210231_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. IOP 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).

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Number of products with errors:

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180719T114831_20180719T123809_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.

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180718T232420_20180719T001356_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T001356_20180719T010333_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T010333_20180719T015309_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_IOP_220180719T015309_20180719T024247_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_IOP_220180719T024247_20180719T033223_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_IOP_220180719T033223_20180719T042201_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_IOP_220180719T042201_20180719T051137_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_IOP_220180719T051137_20180719T060114_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_IOP_220180719T060114_20180719T065050_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T065050_20180719T074028_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_IOP_220180719T074028_20180719T083004_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_IOP_220180719T083004_20180719T091942_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_IOP_220180719T091942_20180719T100917_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_IOP_220180719T100917_20180719T105855_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_IOP_220180719T105855_20180719T114831_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T114831_20180719T123809_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_IOP_220180719T123809_20180719T132744_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T132744_20180719T141722_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T141722_20180719T150658_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180719T150658_20180719T155636_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_IOP_220180719T155636_20180719T164612_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T164612_20180719T173549_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T173549_20180719T182525_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_IOP_220180719T182525_20180719T191503_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_IOP_220180719T191503_20180719T200439_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_IOP_220180719T200439_20180719T205417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T205417_20180719T214353_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_IOP_2_20180719T214353_20180719T223330_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_IOP_2_20180719T223330_20180719T232306_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_IOP_220180719T232306_20180720T001244_C002	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.

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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_IOP_220180718T232420_20180719T001356_C002	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_IOP_220180719T001356_20180719T010333_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_IOP_220180719T010333_20180719T015309_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_IOP_220180719T015309_20180719T024247_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_IOP_220180719T024247_20180719T033223_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_IOP_220180719T033223_20180719T042201_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_IOP_220180719T042201_20180719T051137_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_IOP_220180719T051137_20180719T060114_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_IOP_220180719T060114_20180719T065050_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_IOP_220180719T065050_20180719T074028_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_IOP_220180719T074028_20180719T083004_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_IOP_2_20180719T083004_20180719T091942_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_IOP_2_20180719T091942_20180719T100917_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_IOP_220180719T100917_20180719T105855_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_IOP_2_20180719T105855_20180719T114831_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_IOP_220180719T114831_20180719T123809_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_IOP_220180719T123809_20180719T132744_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_IOP_2_20180719T132744_20180719T141722_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_IOP_2_20180719T141722_20180719T150658_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_IOP_220180719T150658_20180719T155636_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_IOP_2_20180719T155636_20180719T164612_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_IOP_2_20180719T164612_20180719T173549_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_IOP_2_20180719T173549_20180719T182525_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_IOP_220180719T182525_20180719T191503_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_IOP_220180719T191503_20180719T200439_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_IOP_220180719T200439_20180719T205417_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_IOP_220180719T205417_20180719T214353_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_IOP_220180719T214353_20180719T223330_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_IOP_2_20180719T223330_20180719T232306_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_IOP_220180719T232306_20180720T001244_C002	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_IOP_220180719T001356_20180719T010333_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T015309_20180719T024247_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T024247_20180719T033223_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T033223_20180719T042201_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T042201_20180719T051137_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T060114_20180719T065050_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T065050_20180719T074028_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T074028_20180719T083004_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T083004_20180719T091942_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T091942_20180719T100917_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T100917_20180719T105855_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T105855_20180719T114831_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T114831_20180719T123809_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T123809_20180719T132744_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T141722_20180719T150658_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T150658_20180719T155636_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T155636_20180719T164612_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T164612_20180719T173549_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T182525_20180719T191503_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T191503_20180719T200439_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T200439_20180719T205417_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180719T205417_20180719T214353_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T214353_20180719T223330_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T223330_20180719T232306_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180719T232306_20180720T001244_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.