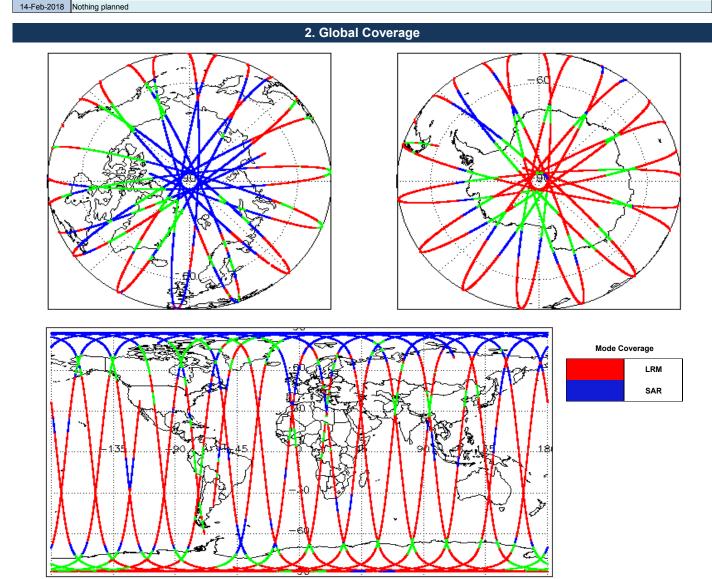


# IDEAS+ Daily Report for IOP data:

# <u>13/02/2018</u>

1. Overview				
Devent Dreductions	15 Eab 2010	Check	L1 & L2	P2P
Report Production:	15-Feb-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Product Software Check	Nominal	Nominal
	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
		Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

# Mission / Instrument News 12-Feb-2018 None 13-Feb-2018 None



# 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

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:

### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement recor	d. The bit value of this flag indicat	es any problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measurer	nent record. The bit value of this fl	ag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR produ	ucts due to a configuration issue. T	his is being investigated and will be updated in the next SW update.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record	d. The bit value of this flag indicate	es any problems when set
.oss of Echo Flag: This flag is currently set for products over land, but this is	-	
Number of products with errors: 14		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180213T042042_20180213T044901_C001	Test Failed Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20180213T045719_20180213T045841_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180213T014630_20180213T015219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180213T032123_20180213T032146_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180213T041918_20180213T042041_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180213T081757_20180213T082017_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180213T162750_20180213T163222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180213T204632_20180213T205105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180213T213738_20180213T214120_C001	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180213T001623_20180213T001824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180213T001623_20180213T001824_C001 CS_OFFL_SIR_IOPR1B_20180213T022840_20180213T022951_C001	2000 01 20110	
	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180213T022840_20180213T022951_C001		The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180213T022840_20180213T022951_C001 CS_OFFL_SIR_IOPR1B_20180213T032146_20180213T032646_C001	Loss of Echo	

#### 5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

#### 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767). 0

0

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:

#### 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. 79

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180213T001824_20180213T002936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T003508_20180213T004343_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T004405_20180213T004936_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20180213T005221\_20180213T010031\_C001 CS OFFL SIR IOPM 2 20180213T010226 20180213T011836 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T012400\_20180213T012726\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T020135\_20180213T022840\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T023348\_20180213T023907\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T024141\_20180213T030659\_C001 CS OFFL SIR IOPM 2 20180213T033915 20180213T035017 C001 CS OFFL SIR IOPM 2 20180213T035555 20180213T040720 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T041315\_20180213T041918\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T042042\_20180213T044901\_C001 CS OFFL SIR IOPM 2 20180213T045719 20180213T045841 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T051235\_20180213T054631\_C001 CS OFFL SIR IOPM 2 20180213T055224 20180213T055751 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T055921\_20180213T060541\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T063637\_20180213T063854\_C001 CS OFFL SIR IOPM 2 20180213T065204 20180213T070048 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T070313\_20180213T072608\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T073124\_20180213T073228\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T073231\_20180213T073639\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T073810\_20180213T075817\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T083016\_20180213T090403\_C001 CS OFFL SIR IOPM 2 20180213T090653 20180213T091125 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T091144\_20180213T091533\_C001 CS OFFL SIR IOPM 2 20180213T091731 20180213T092050 C001 CS OFFL SIR IOPM 2 20180213T092226 20180213T095357 C001 CS OFFL SIR IOPM 2 20180213T095522 20180213T095814 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T101400\_20180213T102106\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T102710\_20180213T104330\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T104507\_20180213T105024\_C001 CS OFFL SIR IOPM 2 20180213T105043 20180213T105055 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T105058\_20180213T105236\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T110043\_20180213T111402\_C001 CS OFFL SIR IOPM 2 20180213T111616 20180213T112816 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T115544\_20180213T120331\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T120747\_20180213T122243\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T122433\_20180213T122934\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T122959\_20180213T123009\_C001 CS OFFL SIR IOPM 2 20180213T123011 20180213T123112 C001 CS OFFL SIR IOPM 2 20180213T123807 20180213T123910 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T124425\_20180213T125030\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T125534\_20180213T125954\_C001 CS OFFL SIR IOPM 2 20180213T130238 20180213T130827 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T133947\_20180213T140151\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T141457\_20180213T144241\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T151549\_20180213T154120\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T154243\_20180213T154805\_C001 CS OFFL SIR IOPM 2 20180213T154811 20180213T155136 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T155415\_20180213T160604\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T161142\_20180213T162750\_C001 CS OFFL SIR IOPM 2 20180213T165112 20180213T171121 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T171435\_20180213T172105\_C001

Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords 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 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 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 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 record 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 Ice Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records. 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CS_OFFL_SIR_IOPM_2_20180213T172244_20180213T173042_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T173319_20180213T180751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T184309_20180213T190046_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T190217_20180213T190731_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T191253_20180213T193543_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T193828_20180213T194804_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T200112_20180213T200343_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T201836_20180213T202438_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T202626_20180213T203951_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T205238_20180213T212446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T214233_20180213T214940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T214947_20180213T221408_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T222344_20180213T222538_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T222746_20180213T223041_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T223207_20180213T230106_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T231738_20180213T232052_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T232247_20180213T232441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T232700_20180213T233846_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180213T031951_20180213T032019_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180213T214211_20180213T214233_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180213T082904_20180213T083016_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180213T091139_20180213T091144_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180213T113455_20180213T113617_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180213T195724_20180213T195941_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180213T213144_20180213T213619_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.

1-

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. 79

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180213T001824_20180213T002936_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_20180213T003508_20180213T004343_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_20180213T004405_20180213T004936_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_20180213T005221_20180213T010031_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T010226_20180213T011836_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_20180213T012400_20180213T012726_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_20180213T020135_20180213T022840_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_20180213T023348_20180213T023907_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T024141_20180213T030659_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_20180213T033915_20180213T035017_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_20180213T035555_20180213T040720_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_20180213T041315_20180213T041918_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T042042_20180213T044901_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_20180213T045719_20180213T045841_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_20180213T051235_20180213T054631_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_20180213T055224_20180213T055751_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T055921_20180213T060541_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_20180213T063637_20180213T063854_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\_20180213T065204\_20180213T070048\_C001 CS OFFL SIR IOPM 2 20180213T070313 20180213T072608 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T073124\_20180213T073228\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T073231\_20180213T073639\_C001 CS OFFL SIR IOPM 2 20180213T073810 20180213T075817 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T083016\_20180213T090403\_C001 CS OFFL SIR IOPM 2 20180213T090653 20180213T091125 C001 CS OFFL SIR IOPM 2 20180213T091144 20180213T091533 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T091731\_20180213T092050\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T092226\_20180213T095357\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T095522\_20180213T095814\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T101400\_20180213T102106\_C001 CS OFFL SIR IOPM 2 20180213T102548 20180213T102702 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T102710\_20180213T104330\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T104507\_20180213T105024\_C001 CS OFFL SIR IOPM 2 20180213T105043 20180213T105055 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T105058\_20180213T105236\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T110043\_20180213T111402\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T111616\_20180213T112816\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T115544\_20180213T120331\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T120747\_20180213T122243\_C001 CS OFFL SIR IOPM 2 20180213T122433 20180213T122934 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T123011\_20180213T123112\_C001 CS OFFL SIR IOPM 2 20180213T124425 20180213T125030 C001 CS OFFL SIR IOPM 2 20180213T125534 20180213T125954 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T130238\_20180213T130827\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T133947\_20180213T140151\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T140458\_20180213T140851\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T141457\_20180213T144241\_C001 CS OFFL SIR IOPM 2 20180213T151549 20180213T154120 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T154243\_20180213T154805\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T154811\_20180213T155136\_C001 CS OFFL SIR IOPM 2 20180213T155415 20180213T160604 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T161142\_20180213T162750\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T165112\_20180213T171121\_C001 CS OFFL SIR IOPM 2 20180213T171435 20180213T172105 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T172244\_20180213T173042\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T173319\_20180213T180751\_C001 CS OFFL SIR IOPM 2 20180213T184309 20180213T190046 C001 CS OFFL SIR IOPM 2 20180213T190217 20180213T190731 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T191253\_20180213T193543\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T193828\_20180213T194804\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T200112\_20180213T200343\_C001 CS OFFL SIR IOPM 2 20180213T201836 20180213T202438 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T202626\_20180213T203951\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T205238\_20180213T212446\_C001 CS OFFL SIR IOPM 2 20180213T214233 20180213T214940 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T214947\_20180213T221408\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180213T222344\_20180213T222538\_C001 CS OFFL SIR IOPM 2 20180213T222746 20180213T223041 C001 CS OFFL SIR IOPM 2 20180213T223207 20180213T230106 C001

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records. Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean

Backscatter Averaging Status

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

CS_OFFL_SIR_IOPM_2_20180213T231738_20180213T232052_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180213T232247_20180213T232441_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_20180213T232700_20180213T233846_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_20180213T031951_20180213T032019_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_20180213T214211_20180213T214233_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_20180213T082904_20180213T083016_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_20180213T091139_20180213T091144_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180213T113455_20180213T113617_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_20180213T195724_20180213T195941_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_20180213T213144_20180213T213619_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: 49

## 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).

Number of products with errors:

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

#### 6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 27

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180213T000542_20180213T005517_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_220180213T005517_20180213T014455_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_20180213T014455_20180213T023431_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_20180213T023431_20180213T032409_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_20180213T032409_20180213T041345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T041345_20180213T050323_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_20180213T050323_20180213T055258_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T055258_20180213T064236_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_20180213T064236_20180213T073212_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_220180213T073212_20180213T082150_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_20180213T082150_20180213T091125_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T091125_20180213T100103_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_20180213T100103_20180213T105039_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_20180213T105039_20180213T114017_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_220180213T114017_20180213T122952_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.

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CS_OFFL_SIR_IOP_220180213T122952_20180213T131930_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_220180213T131930_20180213T140906_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_220180213T145844_20180213T154819_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_220180213T154819_20180213T163758_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_220180213T163758_20180213T172733_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_220180213T172733_20180213T181711_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180213T181711_20180213T190647_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_220180213T190647_20180213T195625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180213T195625_20180213T204600_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_220180213T204600_20180213T213538_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_220180213T213538_20180213T222514_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180213T222514_20180213T231452_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

# 6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are three common status flags raised in the P2P products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 27

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180213T000542_20180213T005517_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_220180213T005517_20180213T014455_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_220180213T014455_20180213T023431_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_220180213T023431_20180213T032409_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_220180213T032409_20180213T041345_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_220180213T041345_20180213T050323_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_220180213T050323_20180213T055258_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_20180213T055258_20180213T064236_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_220180213T064236_20180213T073212_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_20180213T073212_20180213T082150_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_220180213T082150_20180213T091125_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_220180213T091125_20180213T100103_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_220180213T100103_20180213T105039_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_220180213T105039_20180213T114017_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_220180213T114017_20180213T122952_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_220180213T122952_20180213T131930_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_220180213T131930_20180213T140906_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_220180213T145844_20180213T154819_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_220180213T154819_20180213T163758_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_220180213T163758_20180213T172733_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_220180213T172733_20180213T181711_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_20180213T181711_20180213T190647_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_220180213T190647_20180213T195625_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_220180213T195625_20180213T204600_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_220180213T204600_20180213T213538_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_220180213T213538_20180213T222514_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_220180213T222514_20180213T231452_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

# 6.8 P2P Ocean Retracking Quality Check

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. 26

CS_OFFL_SIR_IOP_2_20180213T00542_20180213T00557_2019         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T00557_20190213T014455_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T02431_C0013T03240_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T03432_O180213T03402_0001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T03432_O180213T03432_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T063232_O180213T063232_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T063232_O180213T073212_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T073212_O180213T073212_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T10103_20180213T104030_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records. <t< th=""><th>Product</th><th>Test Failed</th><th>Description</th></t<>	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180213T014455_20180213T023431_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T023431_20180213T063232_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T032409_20180213T063232_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T063232_00180213T064238_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T064238_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T03212_0180213T073212_0010       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T010103_20180213T016028_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T010103_20180213T016038_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T14017_20032_00180_011110013_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T14017_20180213	CS_OFFL_SIR_IOP_220180213T000542_20180213T005517_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_201802137023431_201802137032409_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201802137041345_201802137041345_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201802137050323_20180213705023_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213705258_20180213705212_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201802137076212_20180213707212_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201802137078212_001802137073212_0010       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201802137082150_201802137108013_001125_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201802137114017_201802137114017_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_201802137114595_C0100       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180213T005517_20180213T014455_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T041345_201802Ocean Retracking Quality FlagThe Ocean R	CS_OFFL_SIR_IOP_220180213T014455_20180213T023431_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T04345_20180213T059323_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagCS_OFFL_SIR_IOP_2_20180213T059323_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T059328_20180213T073212_20180213T073212_20180213T073212_20180213T073212_20180213T073212_20180213T073212_20180213T073212_20180213T073212_20180213T0982150_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T073212_0180213T073212_0180213T073212_00180213T091125_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T105039_0180213T105039_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T105039_0180123T114017_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T14017_20180213T14017_00180213T14090_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T154819_20180213T154819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T154819_20180213T154819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T154819_20180213T163758_20101Ocean Retracking Quality FlagThe Ocean R	CS_OFFL_SIR_IOP_220180213T023431_20180213T032409_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T05328_20180213T055258_20180213T055258_20180213T054238_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T064238_20180213T073212_2001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T073212_20180213T073212_20180213T073212_20180213T073212_20180213T073215_20180213T073215_20180213T073215_20180213T073215_20180213T073215_20180213T091125_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T0013_20180213T00135_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T10013_20180213T1105039_C011       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T114017_20180213T12852_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T114017_20180213T12852_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T114017_20180213T12852_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T114017_20180213T140866_C001       Ocean Retracking Quality	CS_OFFL_SIR_IOP_220180213T032409_20180213T041345_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T055258_20180213T073212_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T073212_20180213T073212_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T073212_20180213T082150_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T0103_20180213T091125_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T0103_20180213T105039_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T1400103_20180213T14017_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T14007_20180213T122852_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T114017_20180213T122852_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180213T114095_001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SI	CS_OFFL_SIR_IOP_220180213T041345_20180213T050323_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T064236_20180213T073212_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T03215_20180213T082150_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T08125_020180213T091125_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T100103_20180213T05039_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T105039_20180213T114017_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T1405039_20180213T122952_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T142052_20180213T142952_20180213T14930_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145819_20180213T145819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145819_20180213T163758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180213T163758_20180Ocean Retracking Q	CS_OFFL_SIR_IOP_220180213T050323_20180213T055258_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T073212_20180213T082150_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T002150_20180213T0033_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T10013_20180213T105039_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T105039_20180213T114017_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T114017_20180213T122952_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T112952_20180213T114017_0010Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T131930_20180213T149806_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145819_20180213T145819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T163758_20180213T163758_0010Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T181711_20180213T187733_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T181711_0180213T196625_0011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag	CS_OFFL_SIR_IOP_220180213T055258_20180213T064236_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T082150_20180213T091125_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T100103_20180213T105039_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T105039_20180213T114017_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T114017_20180213T122952_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T114017_20180213T122952_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T114090_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T154819_20180213T16375_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T154819_20180213T16375_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T16375_20180213T16375_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180213T16375_20180213T1647	CS_OFFL_SIR_IOP_220180213T064236_20180213T073212_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T100103_20180213T105039_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T105039_20180213T114017_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T114017_20180213T122952_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T122952_20180213T1140906_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145844_20180213T154819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145844_20180213T154819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T163758_20180213T163758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T163758_20180213T172733_20180213T172733_20180213T181711_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T180213T180213T180647_20180213T19647_2001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T195625_20180213T1204600_20180_2013T204600_20180213T213538_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T204600_20180213T213538	CS_OFFL_SIR_IOP_220180213T073212_20180213T082150_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T105039_20180213T114017_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T114017_20180213T122952_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T1122952_20180213T131930_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T131930_20180213T140906_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145844_20180213T14819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145844_20180213T14819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T1458419_20180213T163758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T163758_20180213T181711_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T190647_20180213T196647_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T196647_20180213T19565_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T196647_20180213T204600_20180213T213538_C001Ocean Retracking Quality FlagThe Ocean Retr	CS_OFFL_SIR_IOP_220180213T082150_20180213T091125_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180213T114017_20180213T122952_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T122952_20180213T131930_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T131930_20180213T140906_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T145844_20180213T164819_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T154819_20180213T164758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T163758_20180213T163758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T163758_20180213T163758_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T181711_20180213T190647_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T195625_2011Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T195625_20180213T204600_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180213T195625_20180213T204600_20180213T23538_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality F	CS_OFFL_SIR_IOP_220180213T100103_20180213T105039_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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