

# IDEAS+ Daily Report for IOP data:

# 29/09/2018



			1. Overview		
Report Production:	03-Oct-2018		Check	L1 & L2	P2P
Report Production.	03-001-2018		r check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Serve	er check: calval-pds.cryosat.esa.int	Nominal	Nominal
			Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)		Product Format Check	Nominal	Nominal
	L1B, L2 & P2P Science Data		Product Header Analysis	Nominal	Nominal
			Auxiliary Data File Usage Check	Nominal	Nominal
			Auxiliary Correction Error Check	Nominal	Nominal
			asurement Confidence Data Check	See Section 4.5, 4.6	Nominal
			WH & Backscatter Measurement Check Ocean Retracking Quality Check	See Section 5.6, 5.7 See Section 5.8	See Section 6.6, 6.7 See Section 6.8
ssion / Instrument Ne 28-Sep-2018 None	2WS				
29-Sep-2018 None					
30-Sep-2018 Nothing	planned				
		2. (	Global Coverage		
	- ^ ^ ~		] [		
·		-30.4 -50.4			Mode Coverage LRM SAR

# 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

Each product is checked for missing Data Set Descriptors with respect to a pr	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 reco	rd. The bit value of this flag indicate	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 measure	ment 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 prod	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 recor	d. The bit value of this flag indicate	s any problems when set.
.oss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
lumber of products with errors: 21		
roduct	Test Failed	Description
S_OFFL_SIR_IOPM1B_20180929T000134_20180929T001849_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPM1B_20180929T014207_20180929T014513_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPM1B_20180929T111829_20180929T114621_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPM1B_20180929T164830_20180929T165449_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T002135_20180929T002351_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T012431_20180929T012923_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T043653_20180929T043815_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T102255_20180929T102640_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T124124_20180929T124734_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T134108_20180929T134321_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T152028_20180929T152513_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
S_OFFL_SIR_IOPN1B_20180929T175241_20180929T175403_C001		
	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T183345_20180929T183424_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T183345_20180929T183424_C001 S_OFFL_SIR_IOPN1B_20180929T214935_20180929T215214_C001		
S_OFFL_SIR_IOPN1B_20180929T183345_20180929T183424_C001 S_OFFL_SIR_IOPN1B_20180929T214935_20180929T215214_C001 S_OFFL_SIR_IOPN1B_20180929T233158_20180929T233302_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T183345_20180929T183424_C001 S_OFFL_SIR_IOPN1B_20180929T214935_20180929T215214_C001 S_OFFL_SIR_IOPN1B_20180929T233158_20180929T233302_C001 S_OFFL_SIR_IOPR1B_20180929T034047_20180929T034826_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
S_OFFL_SIR_IOPN1B_20180929T183345_20180929T183424_C001           S_OFFL_SIR_IOPN1B_20180929T214935_20180929T215214_C001           S_OFFL_SIR_IOPN1B_20180929T233158_20180929T233302_C001           S_OFFL_SIR_IOPR1B_20180929T034047_20180929T034826_C001           S_OFFL_SIR_IOPR1B_20180929T035619_20180929T085647_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
SS_OFFL_SIR_IOPN1B_20180929T183345_20180929T183424_C001         SS_OFFL_SIR_IOPN1B_20180929T214935_20180929T215214_C001         SS_OFFL_SIR_IOPN1B_20180929T233158_20180929T233302_C001         SS_OFFL_SIR_IOPN1B_20180929T034047_20180929T034826_C001         SS_OFFL_SIR_IOPR1B_20180929T085619_20180929T085647_C001         SS_OFFL_SIR_IOPR1B_20180929T085619_20180929T085647_C001         SS_OFFL_SIR_IOPR1B_20180929T0102137_20180929T0102255_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180929T175241_20180929T175403_C001         CS_OFFL_SIR_IOPN1B_20180929T175241_20180929T175403_C001         CS_OFFL_SIR_IOPN1B_20180929T214935_20180929T215214_C001         CS_OFFL_SIR_IOPN1B_20180929T213158_20180929T215214_C001         CS_OFFL_SIR_IOPN1B_20180929T233158_20180929T233302_C001         CS_OFFL_SIR_IOPN1B_20180929T034047_20180929T034826_C001         CS_OFFL_SIR_IOPR1B_20180929T036619_20180929T036647_C001         CS_OFFL_SIR_IOPR1B_20180929T102137_20180929T102255_C001         CS_OFFL_SIR_IOPR1B_20180929T151612_20180929T152028_C001         CS_OFFL_SIR_IOPR1B_20180929T182814_20180929T182846_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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: 0

## 5.2 L2 Product Header Analysis

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

#### 5.3 L2 Auxiliary Data File Usage Check

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

#### 5.4 L2 Auxiliary Correction Error Check

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

#### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

#### 5.6 L2 Range Measurement Check

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

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

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

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 84

Product CS_OFFL_SIR_IOPM_2_20180929T000134_20180929T001849_C001	Test Failed Ocean Range Averaging Status	Description 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_20180929T005303_20180929T010636_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T010949_20180929T011451_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T011528_20180929T011629_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180929T012323_20180929T012431_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T012923_20180929T013553_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T014207_20180929T014513_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T014756_20180929T015345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T015507_20180929T015713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T022442_20180929T024502_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T025017_20180929T025407_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T025429_20180929T025704_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T030138_20180929T032906_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T040106_20180929T042428_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T042800_20180929T043321_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T044043_20180929T045122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T045700_20180929T051313_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T052640_20180929T052753_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T053709_20180929T055625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T055952_20180929T060349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T060801_20180929T061558_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T062142_20180929T065312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T070521_20180929T070735_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T072829_20180929T074159_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T074733_20180929T075247_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T080009_20180929T082101_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T082346_20180929T083514_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T090350_20180929T090954_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T091142_20180929T092137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T093917_20180929T101512_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T102743_20180929T105924_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T111300_20180929T111600_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T111829_20180929T114621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T120255_20180929T120533_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T120758_20180929T122403_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T124026_20180929T124124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T124734_20180929T125013_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T125032_20180929T125500_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T125800_20180929T131147_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T131327_20180929T131610_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T134641_20180929T134856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T135852_20180929T142134_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T142525_20180929T143409_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T143746_20180929T150120_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS OFFL SIR IOPM 2 20180929T151233 20180929T151511 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180929T153329_20180929T160101_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180929T160741_20180929T161202_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180929T161705 20180929T164307 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_20180929T164830_20180929T165449_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180929T170854_20180929T172357_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180929T172930_20180929T173848_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180929T174654_20180929T175241_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T175603_20180929T180025_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T180334_20180929T181108_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T183150_20180929T183345_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T184531_20180929T191831_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T192559_20180929T193112_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T193723_20180929T195218_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T200832_20180929T201007_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T201045_20180929T201234_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T202248_20180929T203408_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T203654_20180929T205751_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T210422_20180929T210559_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T210606_20180929T211016_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T211528_20180929T213429_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T213514_20180929T213944_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T214222_20180929T214737_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T214852_20180929T214926_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T220537_20180929T222137_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180929T222139 20180929T223703 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180929T223933 20180929T224457 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180929T224504_20180929T224510_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180929T225602_20180929T230831_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_201809291230926_201809291232628_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_20180929T234806_20180929T235928_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20180929T211017_20180929T211132_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPN_2_20180929T214935_20180929T215214_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPR_2_20180929T005124_20180929T005303_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPR_2_20180929T142134_20180929T142345_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPR_2_20180929T165450_20180929T170104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180929T173848_20180929T174304_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180929T200528_20180929T200545_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180929T210559_20180929T210606_C001	Ice Range Averaging Status	The Ice 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.

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Product	Test Failed	Description
		The SWH and Ocean Averaging Status Flags have been set for one or more records.
	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	00	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180929T010949_20180929T011451_C001		The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20180929T011528\_20180929T011629\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T012923\_20180929T013553\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T014207\_20180929T014513\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T014756\_20180929T015345\_C001 CS OFFL SIR IOPM 2 20180929T015507 20180929T015713 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T022442\_20180929T024502\_C001 CS OFFL SIR IOPM 2 20180929T025017 20180929T025407 C001 CS OFFL SIR IOPM 2 20180929T025429 20180929T025704 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T030138\_20180929T032906\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T040106\_20180929T042428\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T042800\_20180929T043321\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T044043\_20180929T045122\_C001 CS OFFL SIR IOPM 2 20180929T045700 20180929T051313 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T052640\_20180929T052753\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T052823\_20180929T053338\_C001 CS OFFL SIR IOPM 2 20180929T053709 20180929T055625 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T055952\_20180929T060349\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T060801\_20180929T061558\_C001 CS OFFL SIR IOPM 2 20180929T062142 20180929T065312 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T070521\_20180929T070735\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T072829\_20180929T074159\_C001 CS OFFL SIR IOPM 2 20180929T074733 20180929T075247 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T080009\_20180929T082101\_C001 CS OFFL SIR IOPM 2 20180929T082346 20180929T083514 C001 CS OFFL SIR IOPM 2 20180929T084433 20180929T084835 C001 CS OFFL SIR IOPM 2 20180929T090350 20180929T090954 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T091142\_20180929T092137\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T092912\_20180929T093148\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T093917\_20180929T101512\_C001 CS OFFL SIR IOPM 2 20180929T102743 20180929T105924 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T111300\_20180929T111600\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T111829\_20180929T114621\_C001 CS OFFL SIR IOPM 2 20180929T120255 20180929T120533 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T120758\_20180929T122403\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T124026\_20180929T124124\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T124734\_20180929T125013\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T125032\_20180929T125500\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T125800\_20180929T131147\_C001 CS OFFL SIR IOPM 2 20180929T131327 20180929T131610 C001 CS OFFL SIR IOPM 2 20180929T134329 20180929T134413 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T135852\_20180929T142134\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T142525\_20180929T143409\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T143746\_20180929T150120\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T151233\_20180929T151511\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T153329\_20180929T160101\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T160741\_20180929T161202\_C001 CS OFFL SIR IOPM 2 20180929T161705 20180929T164307 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T164830\_20180929T165449\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T170854\_20180929T172357\_C001 CS OFFL SIR IOPM 2 20180929T172930 20180929T173848 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180929T174654\_20180929T175241\_C001

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

Ice Backscatter Averaging Status

records

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

CPUT_UB_0UPUL_20080007119105_000007119105_0000         PMM example Status Figure         PMM example Status Figure           CPUT_UB_UUPUL_20080007119105_00000         PMM example Status Figure         PMM example Status Figure           CPUT_UB_UUPUL_20080007119105_00000         PMM example Status Figure         PMM example Status Figure           CPUT_UB_UUPUL_20080007119105_0000         PMM example Status Figure         PMM example Status Figure           CPUT_UB_UUPUL_20080007119105_0000         PMM example Status Figure         PMM example Status Figure           CPUT_UB_UUPUL_20080007119105_00000         PMM example Status Figure         PMM example Status Figure           CPUT_UB_UUPUL_2008000710000_0108000710000_0108000710000_0108000710000_010800710000_010800710000_0108000710000_010800710000_0018000710000_010800710000_010800710000_010800710000_010800710000_00000710000_010800710000_00000710000_010800710000_010800710000_0000000000			
De Die Keine (Die 2. 2019/2017/1002/1002/1002/1002/1002/1002/1002	CS_OFFL_SIR_IOPM_2_20180929T183150_20180929T183345_C001		
<ul> <li>Control and Control Accessing States Free States Fre</li></ul>	CS_OFFL_SIR_IOPM_2_20180929T184531_20180929T191831_C001		
Dis Conf., Sin, Conf., 2010000271001020 (USADD) 2010000271001020, Conf. Sink, Conf., Sin, Conf., 2010000271001020 (USADD) 2010000271001020, Conf. Sink, Conf., Sin, Conf., 2010000271001020 (USADD) 201000271001020, Conf. Sink, Conf., Sin, Conf., 2010000271001020 (USADD) 201000271001020, Conf. Sink, Conf., Sin, Conf., 2010000271002010, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027100210, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027100210, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027100210, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027100100, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 201000027101000, Conf. Sink, Filega have been set for one of more resords. Conf., Sin, Conf., 2010000271010100, Conf. Sink, Filega have been set for one of more resords. <	CS_OFFL_SIR_IOPM_2_20180929T192559_20180929T193112_C001	Ice Backscatter Averaging Status	
Conf., San, DMA 2, 201602271024, 201602271024, 201602271024, 201602271240, 201602712400, 201602712400, 2016026712400, 2016026712400, 2016026712400, 2016026712400, 2016026712400, 201602667140700, 2016000711400, 2016002712400, 2016000712400, 201600071	CS_OFFL_SIR_IOPM_2_20180929T193723_20180929T195218_C001		
Cort, Sur, Sur, Cort, Sur, Control 2000, 20000, 2000, 2000, 2000, 2000, 2000, 2000, 2000, 2000, 2000, 2000, 2	CS_OFFL_SIR_IOPM_2_20180929T200832_20180929T201007_C001		
00.0000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180929T201045_20180929T201234_C001		
GPTL_SR_UOPM_2_01100002712304_20100002712075075_C001     BVTA Averging Status Page have been set for one or more fraction.       G2_OFTL_SR_UOPM_2_01100002712304_2010000271207507_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_01100002712304_201000027121054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000027121054_201000027121054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000027121054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000027121054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000027121054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000027121054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000071221054_C001000071221054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000071221054_C001000071221054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000071221054_C001000071221054_C001     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000071221054_C0010     be backstafer Averging Status Page have been set for one or more fraction.       G3_OFTL_SR_UOPM_2_011000071221054_C0010     be backstafe	CS_OFFL_SIR_IOPM_2_20180929T202138_20180929T202205_C001	0 0 1	
Corr, Sin, Drink, 2, Michael, 20180227121032, 20180227121032, 20180227121032, 20180227121032, 20180227121032, 20180227121032, 20180227121042, 2018022712043, 2018022712043, 2018022712043, 2018022712040, 2018022712043, 2018022712044, 2018022712044, 20180227	CS_OFFL_SIR_IOPM_2_20180929T202248_20180929T203408_C001		
Corpert_Set_OPM_2_00000207120006_000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180929T203654_20180929T205751_C001		
Caperty Ser, UPM 2, 201900221721592, 20190221721592, 2001 Ser, GPTL, SER, UPM 2, 2019002217221592, 20190221721592, 2001 Ser, GPTL, SER, UPM 2, 201900221722570, 201002217221592, 2001 Ser, GPTL, SER, UPM 2, 201900221722570, 201002217221592, 2001 Ser, GPTL, SER, UPM 2, 201900221722570, 20100221722159, 20100221722570, 2001 Ser, GPTL, SER, UPM 2, 201900221722570, 20010 Ser, GPTL, SER, UPM 2, 201900221725407, 20010022172445, 2001002172445, 2001002172445, 201900231725450, 20010025721650, 201902231725450, 200100257175548, 200100	CS_OFFL_SIR_IOPM_2_20180929T210422_20180929T210559_C001	Ice Backscatter Averaging Status	
G., OFFL_SR_UORA_2.20160020712354_02100020712354_0001 Backater Averaging Status Tags have been set for one or more records.  SOFEL_SR_UORA_2.20160020712354_02100020712354_0001 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OFFL_SRI_OFM_2_01000207722103_01000207722100_001 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OFFL_SRI_OFM_2_01000207722103_01000207722100_001 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OFFL_SRI_OFM_2_01000207722103_021000207722100_001 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OFFL_SRI_OFM_2_01000207722103_021000207722100_001 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OFFL_SRI_OFM_2_01000207722103_021000207722100_001 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OFFL_SRI_OFM_2_010002077221000_01 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OFFL_SRI_OFM_2_01000207723000_02100000701 SWH Averaging Status Coent Tac SWH and Coent Averaging Status Flags have been set for one or more records.  SG, OF	CS_OFFL_SIR_IOPM_2_20180929T210606_20180929T211016_C001	Ice Backscatter Averaging Status	
GOFFL_SIR_JOPM_2_201690297121634_20169029721462_0016     SWH Averaging Status. Cean Ack-center Averaging Status. Cean SWH Averagin	CS_OFFL_SIR_IOPM_2_20180929T211528_20180929T213429_C001		
CS_OFFL_SIR_IOPM_2_01800307214242_01800307214026_001       Backaster Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_021800207221462_018002072214026_001       SWH Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_021800207221462_01800207222470_001       Exeksater Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_01800207224504_01800207222450_0001       tcs Backacater Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_01800207224504_01800207224500_001       tcs Backacater Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_0180020724604_0180020724508_10.001       tcs Backacater Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_0180020724600_0180020723081_001       tcs Backacater Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_0180020724600_0180020723082_001       Bockacater Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_0180020724600_0180020723082_001       Bockacater Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180929T213514_20180929T213944_C001	SWH Averaging Status, Ocean	
GOFFL_SIR_JOPM_2_201809297124852_01809297124956_001     SWH Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297122467_001     SWH Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297122457_0010     SWH Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297122450_0180929722465_0001     tee Backscatter Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297122450_01802971224510_0001     tee Backscatter Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297122450_0180297122450_0001     tee Backscatter Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297122450_0180297122450_001     tee Backscatter Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297124406_0180297123450_001     SWH Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_0180929712440_01     tee Backscatter Averaging Status     The SWH and Ocean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_JOPM_2_01809297124406_01     SWH Averaging Status     The SWH and Ocean Averaging Status Flags have been set for on	CS_OFFL_SIR_IOPM_2_20180929T214222_20180929T214737_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
GS_OFFL_SIR_IOPM_2_201800207220142_01800207220035_001     SWH Averaging Status, Coean Backscatter Averaging Status Flags have been set for one or more records.     The SWH and Coean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_IOPM_2_201800207220302_001     SWH Averaging Status. Coean Backscatter Averaging Status Flags have been set for one or more records.     The SWH and Coean Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_IOPM_2_201800207223093_0180020722450_001     Ice Backscatter Averaging Status Backscatter Averaging Status     The Backscatter Averaging Status The Ise Backscatter Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_IOPM_2_01800207225602_01800207226602_0180020723083_C001     Backscatter Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_IOPM_2_01800207226602_0180020723083_C001     Backscatter Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_IOPM_2_01800207230802_01800207230802_001     Backscatter Averaging Status Flags have been set for one or more records.       GS_OFFL_SIR_IOPM_2_01800207214034_018002072132460_001     Backscatter Averaging Status Flags have been set for one or more records.       CS_OFFL_SIR_IOPM_2_201800207214034_01800207215241_C001     Ice Backscatter Averaging Status Flags have been set for one or more records.       CS_OFFL_SIR_IOPM_2_20180020714434_0180020714234_0001     SWH Averaging Status Flags have been set for one or more records.       CS_OFFL_SIR_IOPM_2_20180020714434_0180020714234_0001     SWH Averaging Status Flags have been set for one or more records. <t< td=""><td>CS_OFFL_SIR_IOPM_2_20180929T214852_20180929T214926_C001</td><td>SWH Averaging Status, Ocean</td><td>The SWH and Ocean Averaging Status Flags have been set for one or</td></t<>	CS_OFFL_SIR_IOPM_2_20180929T214852_20180929T214926_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
GS_OFF_SIR_JOPM_2_20180929722037_201     SVH Averaging Status, Coean Backscatter Averaging Status, Coean Backscatter Averaging Status, Coean Backscatter Averaging Status     The SVH and Coean Averaging Status Flags have been set for one or more records.       CS_OFF_SIR_JOPM_2_20180929722303_20180929722450_C001     to Backscatter Averaging Status     The Each Backscatter Averaging Status The Ise Backscatter Averaging Status       CS_OFF_SIR_JOPM_2_201809297224602_0180929722450_C001     to Backscatter Averaging Status     The Ise Backscatter Averaging Status The Ise Backscatter Averaging Status       CS_OFF_SIR_JOPM_2_01809297224602_0180929723083_C001     SVH Averaging Status     The Ise Backscatter Averaging Status The Ise Backscatter Averaging Status       CS_OFF_SIR_JOPM_2_0180929723082_0180929723082_C001     SVH Averaging Status     The SVH and Coean Averaging Status Flags have been set for one or records.       CS_OFF_SIR_JOPM_2_01809297214092_0180929723626_C001     SVH Averaging Status     The SVH and Coean Averaging Status Flags have been set for one or records.       CS_OFF_SIR_JOPM_2_01809297214035_0180929723626_C001     SVH Averaging Status     The SVH and Coean Averaging Status Flags have been set for one or records.       CS_OFF_SIR_JOPM_2_0180929714034_0180929710312_C001     SWH Averaging Status     The Ise SVH and Coean Averaging Status Flags have been set for one or records.       CS_OFF_SIR_JOPR_2_0180929716349_0180929710330_S011     Ise Askscatter Averaging Status     The Ise SVH and Coean Averaging Status Flags have been set for one or records.       CS_OFF_SIR_JOPR_2_0180929716349_0180929710330_S011     Ise Askscat	CS_OFFL_SIR_IOPM_2_20180929T220142_20180929T220535_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
GS_OFFL_SIR_IOPM_2_2018082917223199_201808291723703_C001     BWH Averaging Status The SWH and Ocean Averaging Status Flag have been set for one or more records.       GS_OFFL_SIR_IOPM_2_201808291723450_201809291723450_C001     toe Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPM_2_201809291723450_2018092917234510_C001     toe Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPM_2_201809291723450_201809291723450_C001     toe Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPM_2_2018092917234806_2018092917234826_C001     BWH Averaging Status Ceen Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPM_2_201809291721492_018092917234826_C001     BWH Averaging Status Ceen Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPN_2_2018092917214935_201809291721492_C001     BWH Averaging Status Ceen Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPR_2_201809291142134_001802921142245_C001     BWH Averaging Status Ceen Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPR_2_201809291142134_01809291142345_C001     BWH Averaging Status Ceen Backscatter Averaging Status Ceen Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPR_2_201809291142149_01809291142144_C001     BWH Averaging Status Ceen Backscatter Averaging Status Flag have been set for one or more records.       CS_OFFL_SIR_IOPR_2_201809291164540_01809291173446_C018     BWH Averaging Status Ceen Bac	CS_OFFL_SIR_IOPM_2_20180929T220537_20180929T222137_C001	SWH Averaging Status, Ocean	
CS_OFFL_SIR_JOPM_2_201609297223933_20160929722450_2016       bc Backscatter Averaging Status       The Ice Backscatter Averaging Status       Flag         CS_OFFL_SIR_JOPM_2_20160929722450_20160929723683_C001       Backscatter Averaging Status       Status Flags have been set for one or more more more flag         CS_OFFL_SIR_JOPM_2_20160929723682_C01609297236282_C001       Backscatter Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more more flag         CS_OFFL_SIR_JOPM_2_20160929723682_C010       Backscatter Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more more flag         CS_OFFL_SIR_JOPM_2_201609297214806_201609297235928_C001       Backscatter Averaging Status       The SWH and Coean Averaging Status Flags have been set for one or more more flag         CS_OFFL_SIR_JOPM_2_201609297214935_201609297214214_C001       The Backscatter Averaging Status       The Ice Backscatter Averaging S	CS_OFFL_SIR_IOPM_2_20180929T222139_20180929T223703_C001	SWH Averaging Status, Ocean	
CS_OFFL_SIR_JOPM_2_20180929722062_20180929723083_C001       Ibe backscatter Averaging Status       Fecods.         CS_OFFL_SIR_JOPM_2_201809297230926_201809297230828_C001       SWH Averaging Status Coean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_201809297234086_201809297234828_C001       SWH Averaging Status Coean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_201809297214086_201809297234828_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_201809297214935_201809297215214_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_JOPR_2_20180929714935_201809297142345_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_JOPR_2_201809297142345_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status       The SWH and Ocean Averaging Status         CS_OFFL_SIR_JOPR_2_201809297170140_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status       The SWH and Ocean Averaging Status       Flags have been set for one or more records.         CS_OFFL_SIR_JOPR_2_201809297170348_20180929717014_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records. <tr< td=""><td>CS_OFFL_SIR_IOPM_2_20180929T223933_20180929T224457_C001</td><td></td><td></td></tr<>	CS_OFFL_SIR_IOPM_2_20180929T223933_20180929T224457_C001		
CB_OFFL_SIR_IOPM_2_201808/91/2008/120081_0001       Backscatter Averaging Status Cean more records.         CS_OFFL_SIR_IOPM_2_201808/91723682_001808/917236828_0001       Backscatter Averaging Status. Cean more records.         CS_OFFL_SIR_IOPM_2_201808/91723682_001808/917236828_0001       Backscatter Averaging Status. Cean more records.         CS_OFFL_SIR_IOPM_2_201808/91723682_01808/917236828_0001       Backscatter Averaging Status. Cean more records.         CS_OFFL_SIR_IOPM_2_201808/91723682_01808/91723624       Cool Backscatter Averaging Status.       The SWH and Cean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_201808/9172464002917214935_201808/917215214_C001       tee Backscatter Averaging Status.       The SWH and Cean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201808/92114214_201808/92114234_C001       Backscatter Averaging Status.       The SWH and Cean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201808/92114214_201808/92114234_C001       Backscatter Averaging Status.       The SWH and Cean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201808/921173848_201808/92114234_C001       Backscatter Averaging Status       The SWH and Cean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201808/921173848_201808/92114234_C001       Backscatter Averaging Status       The SWH and Cean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_	CS_OFFL_SIR_IOPM_2_20180929T224504_20180929T224510_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPM_2_20180929T234806_20180929T235998_C001       Backszatter / Averaging Status       more records.         CS_OFFL_SIR_IOPM_2_20180929T234806_20180929T235998_C001       Backszatter / Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_20180929T214935_20180929T215214_C001       tee Backscatter / Averaging Status       The Lee Backscatter / Averaging Status       The Ioe Backscatter / Averaging Status         CS_OFFL_SIR_IOPN_2_20180929T05124_20180929T053303_C001       SWH Averaging Status       The Lee Backscatter / Averaging Status       The Ioe Backscatter / Averaging Status         CS_OFFL_SIR_IOPR_2_20180929T142134_20180929T142345_C001       tee Backscatter / Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929T142134_20180929T142345_C001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929T142134_20180929T174304_C001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929T173848_20180929T174304_C001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929T210559_20180929T210565_C001       SWH Averaging Status       Ceean Netracking Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929T2	CS_OFFL_SIR_IOPM_2_20180929T225602_20180929T230831_C001		
CS_OFFL_SIR_IOPM_2_201809291211017_201809291211132_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPN_2_201809291211017_201809291211032_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPN_2_201809291214935_201809291245214_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929124234_201809291142345_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929114234_201809291142345_C001       Backscatter Averaging Status or more records.       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929116450_201809291170104_C001       SWH Averaging Status Ocean Meraging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291173848_201809291174304_C001       SWH Averaging Status Ocean Meraging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291200528_201809291200545_C001       SWH Averaging Status Ocean Meraging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291210559_201809291210666_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         Cs_OFFL_SIR_IOPR_2_201809291210559_201809291210666_C001       Ice Backscatter Averaging Status <td>CS_OFFL_SIR_IOPM_2_20180929T230926_20180929T232628_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOPM_2_20180929T230926_20180929T232628_C001		
CS_OFFL_SIR_IOPN_2_20180929171102_C0001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPN_2_201809291714935_2018092917215214_C001       ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291065124_201809291745214_C001       SWH Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOPR_2_201809291142134_201809291745245_C001       SWH Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOPR_2_201809291142345_C001       SWH Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOPR_2_20180929114234_01809291142345_C001       SWH Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOPR_2_201809291173848_201809291170304_C001       SWH Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOPR_2_201809291173848_201809291200545_C001       SWH Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOPR_2_201809291200528_201809291200545_C001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291210559_201809291210606_C001       ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291210559_201809291210606_C001       ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180929T234806_20180929T235928_C001		
CS_OFFL_SIR_IOPR_2_201609291219302_201005291219216_C001       Ince backstatier Averaging Status       records.         CS_OFFL_SIR_IOPR_2_20160929T142134_20160929T142345_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20160929T142134_20160929T142345_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20160929T142134_20160929T170104_C001       Borkscatter Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20160929T10559_20160929T173044_2016       Borkscatter Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20160929T200528_20180929T200545_C001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929T200528_20180929T200545_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_20180929T20559_20180929T200545_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status         CS_OFFL_SIR_IOPR_2_20180929T200528_20180929T210606_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status         CS_OFFL_SIR_IOPR_2_20180929T20055       Status Flags have been set for one or more	CS_OFFL_SIR_IOPN_2_20180929T211017_20180929T211132_C001		
CS_OFFL_SIR_IOPR_2_20180929100512_201809291142345_0001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPR_2_201809291142134_201809291142345_0001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291165450_201809291170104_0001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291173848_01809291174304_0001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291200528_01809291200545_0001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291200528_01809291200545_0001       Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_01809291200528_01809291200545_0001       Ibe Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_01809291200528_01809291200562_011009291200562_011009291200562_011009291200562_011009291200562_001       Ibe Backscatter Averaging Status       The EWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_01809291210559_01809291210559_01809291210559_01809291200545_001       Ibe Backscatter Averaging Status       The EWB and Ocean Averaging Status Flags have been set fo	CS_OFFL_SIR_IOPN_2_20180929T214935_20180929T215214_C001	Ice Backscatter Averaging Status	
CS_OFFL_SIR_IOPR_2_201809291142134_201809291142445_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPR_2_201809291165450_201809291170104_C001       Backscatter Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291173448_201809291174304_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291200528_201809291200545_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_2018092912100528_201809291200545_C001       Ice Backscatter Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_2018092912100559_201809291210606_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         S.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 product With errors:       65         61       12P Product Format Check         Each product, retrieved and unpacked from the science server, is checked to ensure it con	CS_OFFL_SIR_IOPR_2_20180929T005124_20180929T005303_C001		
CS_OFFL_SIR_IOPR_2_201809291173848_201809291173404_C001       Backscatter Averaging Status, Ocean       more records.         CS_OFFL_SIR_IOPR_2_201809291173848_201809291173846_2011       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or         CS_OFFL_SIR_IOPR_2_201809291200528_201809291200545_C001       SWH Averaging Status, Ocean       The SWH and Ocean Averaging Status Flags have been set for one or         CS_OFFL_SIR_IOPR_2_201809291210559_201809291210606_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status         5.8 L2 Ocean Retracking Quality Check       Ice Backscatter Averaging Status       The loe Backscatter Averaging Status         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:       65         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:       0	CS_OFFL_SIR_IOPR_2_20180929T142134_20180929T142345_C001		
CS_OFFL_SIR_IOPR_2_201609291173646_201609291200545_C001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPR_2_201809291200528_201809291200545_C001       SWH Averaging Status       The SWH and Ocean Averaging Status Flags have been set for one or more records.         CS_OFFL_SIR_IOPR_2_201809291210559_201809291210606_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status         Status       Ice Backscatter Averaging Status       The loce Backscatter Averaging Status       The Ice Backscatter Averaging Status Flags have been set for one or more records.         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:       65         6. IOP L2 Pole-to-Pole Data Quality Check         Cach 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:       0	CS_OFFL_SIR_IOPR_2_20180929T165450_20180929T170104_C001		
CS_OFFL_SIR_IOPR_2_201809291200345_0001       Backscatter Averaging Status       more records.         CS_OFFL_SIR_IOPR_2_20180929T210559_20180929T210606_C001       Ice Backscatter Averaging Status       The Ice Backscatter Averaging Status Flag has 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:       65         6. IOP L2 Pole-to-Pole Data Quality Check         Each 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:       0	CS_OFFL_SIR_IOPR_2_20180929T173848_20180929T174304_C001		
S.3 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:       65         6. IOP L2 Pole-to-Pole Data Quality 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:       0	CS_OFFL_SIR_IOPR_2_20180929T200528_20180929T200545_C001		
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: 65  Common Composition Composit	CS_OFFL_SIR_IOPR_2_20180929T210559_20180929T210606_C001	Ice Backscatter Averaging Status	
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: 65  Common Composition Composit	5.8.1.2 Ocean Retracking Quality Check		
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:       65         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:       0		rement record. The bit value of this flag inc	ticates any problems when set
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:       0		-	
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: 0	Number of products with errors: 65		
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: 0	6. IOP L2	Pole-to-Pole Data Qualit	ty Check
Number of products with errors: 0	6.1 P2P Product Format Check		
	Each product, retrieved and unpacked from the science server, is checked to en	sure it consists of both an XML header file	(.HDR) and a NetCDF product file (.nc).
6.2 P2P Product Header Analysis	Number of products with errors: 0		
	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: 0

#### 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: 0

## 6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

#### 6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

0

#### 6.6 P2P Range Measurement Check

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

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

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

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

Number of products with errors: 30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180928T233552_20180929T002532_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T002532_20180929T011506_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_220180929T011506_20180929T020445_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_220180929T020445_20180929T025419_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_220180929T025419_20180929T034359_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T034359_20180929T043333_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_220180929T043333_20180929T052312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T052312_20180929T061247_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_220180929T061247_20180929T070226_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T070226_20180929T075200_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_220180929T075200_20180929T084140_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T084140_20180929T093114_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T093114_20180929T102053_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T102053_20180929T111027_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T111027_20180929T120007_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_220180929T120007_20180929T124941_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_220180929T124941_20180929T133920_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_220180929T133920_20180929T142854_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_220180929T142854_20180929T151834_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_220180929T151834_20180929T160808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T160808_20180929T165748_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_220180929T165748_20180929T174722_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T174722_20180929T183701_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_220180929T183701_20180929T192635_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_220180929T192635_20180929T201615_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_220180929T201615_20180929T210549_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_220180929T210549_20180929T215528_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_220180929T215528_20180929T224502_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_220180929T224502_20180929T233442_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_220180929T233442_20180930T002416_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

#### 6.7 P2P SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

Product	Test Failed	Description
	00	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180929T002532_20180929T011506_C001	Backscatter Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180929T011506_20180929T020445_C001	Backscatter Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180929T020445_20180929T025419_C001	Backscatter Averaging Status Ice	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
		The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOP_2_20180929T034359_20180929T043333_C001
CS_OFFL_SIR_IOP_220180929T043333_20180929T052312_C001
CS_OFFL_SIR_IOP_220180929T052312_20180929T061247_C001
CS_OFFL_SIR_IOP_220180929T061247_20180929T070226_C001
CS_OFFL_SIR_IOP_220180929T070226_20180929T075200_C001
CS_OFFL_SIR_IOP_220180929T075200_20180929T084140_C001
CS_OFFL_SIR_IOP_220180929T084140_20180929T093114_C001
CS_OFFL_SIR_IOP_220180929T093114_20180929T102053_C001
CS_OFFL_SIR_IOP_220180929T102053_20180929T111027_C001
CS_OFFL_SIR_IOP_220180929T111027_20180929T120007_C001
CS_OFFL_SIR_IOP_2_20180929T120007_20180929T124941_C001
CS_OFFL_SIR_IOP_220180929T124941_20180929T133920_C001
CS_OFFL_SIR_IOP_2_20180929T133920_20180929T142854_C001
CS_OFFL_SIR_IOP_220180929T142854_20180929T151834_C001
CS_OFFL_SIR_IOP_220180929T151834_20180929T160808_C001
CS_OFFL_SIR_IOP_220180929T160808_20180929T165748_C001
CS_OFFL_SIR_IOP_220180929T165748_20180929T174722_C001
CS_OFFL_SIR_IOP_220180929T174722_20180929T183701_C001
CS_OFFL_SIR_IOP_220180929T183701_20180929T192635_C001
CS_OFFL_SIR_IOP_220180929T192635_20180929T201615_C001
CS_OFFL_SIR_IOP_2_20180929T201615_20180929T210549_C001
CS_OFFL_SIR_IOP_2_20180929T210549_20180929T215528_C001
CS_OFFL_SIR_IOP_2_20180929T215528_20180929T224502_C001
CS_OFFL_SIR_IOP_220180929T224502_20180929T233442_C001
CS_OFFL_SIR_IOP_220180929T233442_20180930T002416_C001

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The SWH, Ocean and Ice 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.

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

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#### 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.

SWH Averaging Status, Ocean Backscatter Averaging Status

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180928T233552_20180929T002532_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T002532_20180929T011506_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T011506_20180929T020445_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T020445_20180929T025419_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T034359_20180929T043333_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T043333_20180929T052312_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T052312_20180929T061247_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T061247_20180929T070226_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T070226_20180929T075200_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T075200_20180929T084140_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T084140_20180929T093114_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T093114_20180929T102053_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T102053_20180929T111027_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180929T111027_20180929T120007_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180929T120007_20180929T124941_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180929T124941_20180929T133920_C001
CS_OFFL_SIR_IOP_220180929T133920_20180929T142854_C001
CS_OFFL_SIR_IOP_220180929T142854_20180929T151834_C001
CS_OFFL_SIR_IOP_220180929T160808_20180929T165748_C001
CS_OFFL_SIR_IOP_220180929T165748_20180929T174722_C001
CS_OFFL_SIR_IOP_220180929T174722_20180929T183701_C001
CS_OFFL_SIR_IOP_220180929T183701_20180929T192635_C001
CS_OFFL_SIR_IOP_220180929T192635_20180929T201615_C001
CS_OFFL_SIR_IOP_220180929T201615_20180929T210549_C001
CS_OFFL_SIR_IOP_220180929T210549_20180929T215528_C001
CS_OFFL_SIR_IOP_220180929T215528_20180929T224502_C001
CS_OFFL_SIR_IOP_220180929T224502_20180929T233442_C001
CS_OFFL_SIR_IOP_220180929T233442_20180930T002416_C001

Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records. The Ocean Retracking Quality Flag has been set for one or more records.