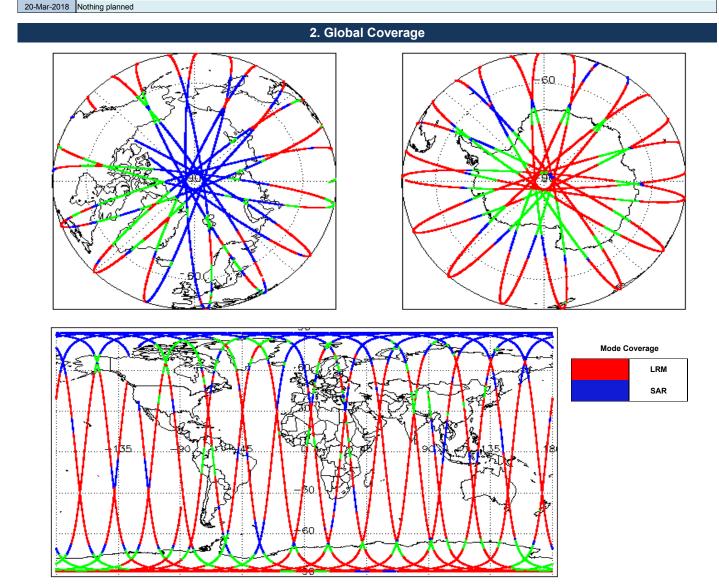


# IDEAS+ Daily Report for IOP data:

# <u>19/03/2018</u>

		I. Overview		
	00.04 00.40	Check	L1 & L2	P2P
eport Production:	23-Mar-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.	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Useu.	L1B, L2 & P2P Science Data	Product Header Analysis	See Section 5.2	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 18-Mar-2018 None 19-Mar-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 reco	rd. 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 measure	ment record. The bit value of this t	lag indicates any problems when set.			
Attitude Correction Missing: This flag is currently set in error for IOPR prod	ucts due to a configuration issue.	This 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 indicat	es any problems when set.			
Loss of Echo Flag: This flag is currently set for products over land, but this is	-				
Number of products with errors: 18					
Product	Test Failed	Description			
	Loss of Echo	The tracking echo is missing for one or more records			
S_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001	Loss of Echo Loss of Echo	•			
CS_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001 CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001		The tracking echo is missing for one or more records			
CS_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001 CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001 CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001 CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
CS_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001 CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001 CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001 CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_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 The tracking echo is missing for one or more records			
CS_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001 CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001 CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001 CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001 CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_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 The tracking echo is missing for one or more records			
CS_OFFL_SIR_IOPN1B_20180319T230214_20180319T231725_C001 CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001 CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001 CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001 CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001 CS_OFFL_SIR_IOPN1B_20180319T083220_20180319T083405_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 The tracking echo is missing for one or more records			
CS_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001 CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001 CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_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 The tracking echo is missing for one or more records			
SS_OFFL_SIR_IOPM1B_201803197230214_201803197231725_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T083220_20180319T083405_C001           CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001           CS_OFFL_SIR_IOPN1B_20180319T101526_20180319T101656_C001	Loss of Echo 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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
CS_OFFL_SIR_IOPN1B_20180319T230214_20180319T231725_C001 CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001 CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001 CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001 CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001 CS_OFFL_SIR_IOPN1B_20180319T083220_20180319T083405_C001 CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001	Loss of Echo Loss of Echo 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 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			
CS_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T083220_20180319T083405_C001           CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001           CS_OFFL_SIR_IOPN1B_20180319T101526_20180319T101656_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_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 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 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			
SS_OFFL_SIR_IOPM1B_201803197230214_201803197231725_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T083220_20180319T083405_C001           CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001           CS_OFFL_SIR_IOPN1B_20180319T101526_20180319T101656_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001	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 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 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_IOPM1B_201803197230214_201803197231725_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T03644_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T083405_C001           CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001           CS_OFFL_SIR_IOPN1B_20180319T101526_20180319T101656_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T205540_20180319T205701_C001           CS_OFFL_SIR_IOPN1B_20180319T223641_20180319T205701_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 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 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 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_IOPM1B_201803197230214_201803197231725_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T03644_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001           CS_OFFL_SIR_IOPN1B_20180319T101526_20180319T091750_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T10165645_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T173811_20180319T173914_C001           CS_OFFL_SIR_IOPN1B_20180319T205540_20180319T205701_C001           CS_OFFL_SIR_IOPN1B_20180319T223641_20180319T223728_C001           CS_OFFL_SIR_IOPN1B_20180319T010110_20180319T00518_C001	Loss of EchoLoss 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 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 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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
S2_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001           S3_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           S3_OFFL_SIR_IOPN1B_20180319T015648_20180319T033846_C001           S3_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           S3_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           S3_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           S3_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           S3_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001           S3_OFFL_SIR_IOPN1B_20180319T101526_20180319T101656_C001           S3_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           S3_OFFL_SIR_IOPN1B_20180319T173811_20180319T173914_C001           S3_OFFL_SIR_IOPN1B_20180319T205540_20180319T205701_C001           S3_OFFL_SIR_IOPN1B_20180319T223641_20180319T223728_C001           S3_OFFL_SIR_IOPN1B_20180319T010110_20180319T010518_C001           S3_OFFL_SIR_IOPN1B_20180319T223641_20180319T223728_C001           S3_OFFL_SIR_IOPN1B_20180319T023524_20180319T024558_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 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 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 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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
S2_OFFL_SIR_IOPM1B_201803197230214_201803197231725_C001           S2_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           S2_OFFL_SIR_IOPN1B_20180319T015648_20180319T033846_C001           S2_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           S2_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           S2_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           S2_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           S2_OFFL_SIR_IOPN1B_20180319T073415_20180319T091750_C001           S2_OFFL_SIR_IOPN1B_20180319T01637_20180319T091750_C001           S2_OFFL_SIR_IOPN1B_20180319T101526_20180319T101656_C001           S2_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           S2_OFFL_SIR_IOPN1B_20180319T173811_20180319T173914_C001           S2_OFFL_SIR_IOPN1B_20180319T205540_20180319T205701_C001           S2_OFFL_SIR_IOPN1B_20180319T203544_20180319T010518_C001           S2_OFFL_SIR_IOPN1B_20180319T010110_20180319T010518_C001           S2_OFFL_SIR_IOPR1B_20180319T023524_20180319T024558_C001           S2_OFFL_SIR_IOPR1B_20180319T023524_20180319T024558_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
SS_OFFL_SIR_IOPM1B_20180319T230214_20180319T231725_C001           CS_OFFL_SIR_IOPN1B_20180319T015648_20180319T015932_C001           CS_OFFL_SIR_IOPN1B_20180319T033728_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T033846_C001           CS_OFFL_SIR_IOPN1B_20180319T041552_20180319T041633_C001           CS_OFFL_SIR_IOPN1B_20180319T073415_20180319T073644_C001           CS_OFFL_SIR_IOPN1B_20180319T083220_20180319T083405_C001           CS_OFFL_SIR_IOPN1B_20180319T091637_20180319T091750_C001           CS_OFFL_SIR_IOPN1B_20180319T101526_20180319T101656_C001           CS_OFFL_SIR_IOPN1B_20180319T105218_20180319T105645_C001           CS_OFFL_SIR_IOPN1B_20180319T173811_20180319T173914_C001           CS_OFFL_SIR_IOPN1B_20180319T173811_20180319T173914_C001           CS_OFFL_SIR_IOPN1B_20180319T205540_20180319T205701_C001	Loss of EchoLoss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			

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: 1

# Number of products with errors:

Product	Test Failed
CS_OFFL_SIR_IOPR_2_20180319T042834_20180319T042853_C001	Percentage of processing errors detected greater than minimum acceptable threshold.

# 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

# 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

#### 5.6 L2 Range Measurement Check

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

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

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

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

Product

83

**Test Failed** 

CS OFFL SIR IOPM 2 20180318T234339 20180319T000756 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T001014\_20180319T001851\_C001 CS OFFL SIR IOPM 2 20180319T002057 20180319T004629 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T012114\_20180319T013343\_C001 CS OFFL SIR IOPM 2 20180319T013457 20180319T014701 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T015228\_20180319T015648\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T015948\_20180319T023013\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T025325\_20180319T030842\_C001 CS OFFL SIR IOPM 2 20180319T031414 20180319T032610 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T033141\_20180319T033727\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T033846\_20180319T034510\_C001 CS OFFL SIR IOPM 2 20180319T041634 20180319T041722 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T043024\_20180319T050519\_C001 CS OFFL SIR IOPM 2 20180319T051046 20180319T051558 C001 CS OFFL SIR IOPM 2 20180319T051739 20180319T052048 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T052051\_20180319T053709\_C001 CS OFFL SIR IOPM 2 20180319T060943 20180319T061854 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T061932\_20180319T063735\_C001 CS OFFL SIR IOPM 2 20180319T063746 20180319T064350 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T065052\_20180319T065505\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T065708\_20180319T071917\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T071931\_20180319T073243\_C001 CS OFFL SIR IOPM 2 20180319T073244 20180319T073333 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T075108\_20180319T080635\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T080638\_20180319T082254\_C001 CS OFFL SIR IOPM 2 20180319T082421 20180319T082944 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T083003\_20180319T083219\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T084052\_20180319T085319\_C001 CS OFFL SIR IOPM 2 20180319T085434 20180319T090727 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T090814\_20180319T091120\_C001 CS OFFL SIR IOPM 2 20180319T093305 20180319T094415 C001 CS OFFL SIR IOPM 2 20180319T094618 20180319T100158 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T100347\_20180319T100841\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T100901\_20180319T100912\_C001 CS OFFL SIR IOPM 2 20180319T101729 20180319T102231 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T103507\_20180319T104635\_C001 CS OFFL SIR IOPM 2 20180319T112538 20180319T114101 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T114320\_20180319T114755\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T115345\_20180319T122115\_C001 CS OFFL SIR IOPM 2 20180319T125444 20180319T132038 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T132322\_20180319T132709\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T133321\_20180319T134529\_C001 CS OFFL SIR IOPM 2 20180319T135101 20180319T140054 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T143311\_20180319T150007\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T150132\_20180319T150622\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T150629\_20180319T150959\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T151258\_20180319T152443\_C001 CS OFFL SIR IOPM 2 20180319T152836 20180319T154800 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T163305\_20180319T163435\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T163635\_20180319T163943\_C001

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CS_OFFL_SIR_IOPM_2_20180319T164126_20180319T164652_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T165155_20180319T171458_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T171744_20180319T172627_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T173938_20180319T174228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T175855_20180319T181840_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T182051_20180319T182550_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T183104_20180319T190444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T193033_20180319T195326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T195639_20180319T195707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T201139_20180319T202918_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T203400_20180319T204213_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T210206_20180319T211758_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T212012_20180319T213452_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T214156_20180319T214406_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T214453_20180319T214909_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T215044_20180319T220621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T220822_20180319T221743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T224554_20180319T225711_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T230214_20180319T231724_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T231948_20180319T232810_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T233008_20180319T234731_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T234914_20180319T235154_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180319T010049_20180319T010109_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180319T015112_20180319T015228_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180319T105123_20180319T105210_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180319T132725_20180319T132731_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T000757_20180319T000829_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T005951_20180319T010048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T055315_20180319T055534_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T083406_20180319T083707_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T172628_20180319T173646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T192155_20180319T193033_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T210118_20180319T210206_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

# 5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 83

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180318T234339_20180319T000756_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_20180319T001014_20180319T001851_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T002057_20180319T004629_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_20180319T012114_20180319T013343_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_20180319T013457_20180319T014701_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_20180319T015228_20180319T015648_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T015948_20180319T023013_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_20180319T025325_20180319T030842_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_20180319T031414_20180319T032610_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_20180319T033141_20180319T033727_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20180319T033846\_20180319T034510\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T041634\_20180319T041722\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T043024\_20180319T050519\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T051046\_20180319T051558\_C001 CS OFFL SIR IOPM 2 20180319T051739 20180319T052048 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T052051\_20180319T053709\_C001 CS OFFL SIR IOPM 2 20180319T060943 20180319T061854 C001 CS OFFL SIR IOPM 2 20180319T061932 20180319T063735 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T063746\_20180319T064350\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T065052\_20180319T065505\_C001 CS OFFL SIR IOPM 2 20180319T065708 20180319T071917 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T071931\_20180319T073243\_C001 CS OFFL SIR IOPM 2 20180319T073244 20180319T073333 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T075108\_20180319T080635\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T080638\_20180319T082254\_C001 CS OFFL SIR IOPM 2 20180319T082421 20180319T082944 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T083003\_20180319T083219\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T084052\_20180319T085319\_C001 CS OFFL SIR IOPM 2 20180319T085434 20180319T090727 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T090814\_20180319T091120\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T093305\_20180319T094415\_C001 CS OFFL SIR IOPM 2 20180319T094618 20180319T100158 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T100347\_20180319T100841\_C001 CS OFFL SIR IOPM 2 20180319T100901 20180319T100912 C001 CS OFFL SIR IOPM 2 20180319T101729 20180319T102231 C001 CS OFFL SIR IOPM 2 20180319T103507 20180319T104635 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T112538\_20180319T114101\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T114320\_20180319T114755\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T114833\_20180319T114949\_C001 CS OFFL SIR IOPM 2 20180319T115345 20180319T122115 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T125444\_20180319T132038\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T132322\_20180319T132709\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T133321\_20180319T134529\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T135101\_20180319T140054\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T143311\_20180319T150007\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T150132\_20180319T150622\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T150629\_20180319T150959\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T151258\_20180319T152443\_C001 CS OFFL SIR IOPM 2 20180319T152836 20180319T154800 C001 CS OFFL SIR IOPM 2 20180319T163305 20180319T163435 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T163635\_20180319T163943\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T164126\_20180319T164652\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T165155\_20180319T171458\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T171744\_20180319T172627\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T173938\_20180319T174228\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T175855\_20180319T181840\_C001 CS OFFL SIR IOPM 2 20180319T182051 20180319T182550 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T183104\_20180319T190444\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T193033\_20180319T195326\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T195639\_20180319T195707\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180319T201139\_20180319T202918\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has 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 Ice Backscatter Averaging Status Flag has 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 Ice Backscatter Averaging Status Flag has been set for one or more records.

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

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

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

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

CS_OFFL_SIR_IOPM_2_20180319T203400_20180319T204213_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_20180319T210206_20180319T211758_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_20180319T212012_20180319T213452_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_20180319T214453_20180319T214909_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T215044_20180319T220621_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_20180319T220822_20180319T221743_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_20180319T224554_20180319T225711_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_20180319T230214_20180319T231724_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_20180319T231948_20180319T232810_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180319T233008_20180319T234731_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_20180319T234914_20180319T235154_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_20180319T010049_20180319T010109_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_20180319T015112_20180319T015228_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180319T105123_20180319T105210_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_20180319T132725_20180319T132731_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180319T000757_20180319T000829_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_20180319T005951_20180319T010048_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_20180319T055315_20180319T055534_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_20180319T083406_20180319T083707_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_20180319T172628_20180319T173646_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_20180319T192155_20180319T193033_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_20180319T210118_20180319T210206_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 mea	-	
Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 58	no ano sea ice, but this is to be expected. I	ne number of products with this error flag set is given below.

#### Number of products with errors:

### 6. IOP L2 Pole-to-Pole Data Quality Check

#### 6.1 P2P Product Format Check

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

Number of products with errors:

#### 6.2 P2P Product Header Analysis

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

#### 6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

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. 30

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180318T232409_20180319T001344_C002	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
C3_011 E_311C_10F_2201803181232409_201803191001344_C002	Range Averaging Status	or more records.
CS OFFL SIR IOP 2 20180319T001344 20180319T010323 C001	Ocean Range Averaging Status, Ice	The Ocean and Ice Range Averaging Status Flags have been set for one
C3_0FFL_3IK_10F_2201603191001344_201603191010323_C001	Range Averaging Status	or more records.
CS_OFFL_SIR_IOP_220180319T010323_20180319T015258_C001	0 0 0	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

	1	
CS_OFFL_SIR_IOP_220180319T015258_20180319T024236_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_220180319T024236_20180319T033211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T033211_20180319T042150_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_220180319T042150_20180319T051125_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_220180319T051125_20180319T060103_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_220180319T060103_20180319T065038_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T065038_20180319T074017_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_220180319T074017_20180319T082952_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_220180319T082952_20180319T091930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T091930_20180319T100905_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_220180319T100905_20180319T105844_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_220180319T105844_20180319T114819_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_220180319T114819_20180319T123758_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T123758_20180319T132733_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_220180319T132733_20180319T141711_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T141711_20180319T150646_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_220180319T150646_20180319T155625_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T155625_20180319T164600_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_220180319T164600_20180319T173538_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_220180319T173538_20180319T182514_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_220180319T182514_20180319T191452_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_220180319T191452_20180319T200427_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T200427_20180319T205405_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T205405_20180319T214341_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T214341_20180319T223319_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_220180319T223319_20180319T232254_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_220180319T232254_20180320T001233_C002	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.

#### 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

Number of products with errors:

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

CS_OFFL_SIR_IOP_220180319T082952_20180319T091930_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_220180319T091930_20180319T100905_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_220180319T100905_20180319T105844_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_220180319T105844_20180319T114819_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_220180319T114819_20180319T123758_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_220180319T123758_20180319T132733_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_220180319T132733_20180319T141711_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_220180319T141711_20180319T150646_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_220180319T150646_20180319T155625_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_220180319T155625_20180319T164600_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_220180319T164600_20180319T173538_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_220180319T173538_20180319T182514_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_220180319T182514_20180319T191452_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_220180319T191452_20180319T200427_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_220180319T200427_20180319T205405_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_220180319T205405_20180319T214341_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_220180319T214341_20180319T223319_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_220180319T223319_20180319T232254_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_220180319T232254_20180320T001233_C002	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.

# 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. Number of products with errors: 28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180318T232409_20180319T001344_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T001344_20180319T010323_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T010323_20180319T015258_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T015258_20180319T024236_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T024236_20180319T033211_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T033211_20180319T042150_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T042150_20180319T051125_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T051125_20180319T060103_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T060103_20180319T065038_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T065038_20180319T074017_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T074017_20180319T082952_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T082952_20180319T091930_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T091930_20180319T100905_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T100905_20180319T105844_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T105844_20180319T114819_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T114819_20180319T123758_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T123758_20180319T132733_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T141711_20180319T150646_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T155625_20180319T164600_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180319T164600_20180319T173538_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T173538_20180319T182514_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T182514_20180319T191452_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T191452_20180319T200427_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T200427_20180319T205405_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T205405_20180319T214341_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T214341_20180319T223319_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T223319_20180319T232254_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180319T232254_20180320T001233_C002	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.