

# IDEAS+ Daily Report for IOP data:

# 06/08/2018



			1. Overview		
		1	Check	L1 & L2	P2P
Report Production:	09-Aug-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 Useu.	CryoSat Ocean Processol		Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)		Product Format Check	Nominal	Nominal
Dula Obba.	L1B, L2 & P2P Science Data		Product Header Analysis	Nominal	Nominal
			Auxiliary Data File Usage Check	Nominal	Nominal
			Auxiliary Correction Error Check	Nominal	Nominal
			Measurement Confidence Data Check	See Section 4.6	Nominal
			Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
			Ocean Retracking Quality Check	See Section 5.8	See Section 6.8
lission / Instrument Ne	ws				
05-Aug-2018 None					
06-Aug-2018 None 07-Aug-2018 Nothing	planned				
			2. Global Coverage		
·					Mode Coverage

# 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

4.3 L1B Auxilary Data File Usage Check		
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 recor	rd. The bit value of this flag indicat	tes 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 f	lag indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR produ	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		
•	d. The bit value of this flag indicate	es anv problems when set
CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this is	-	es any problems when set.
CryoSat L1B data includes a waveform data flag for each measurement recor Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13	-	es any problems when set. Description
CryoSat L1B data includes a waveform data flag for each measurement recornoss of Echo Flag: This flag is currently set for products over land, but this is number of products with errors: 13 Product	s to be expected.	
CryoSat L1B data includes a waveform data flag for each measurement recornors of Echo Flag: This flag is currently set for products over land, but this is number of products with errors: 13 Product CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001	to be expected.	Description
CryoSat L1B data includes a waveform data flag for each measurement recorsor of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001 CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T163352_C001	Test Failed	Description The tracking echo is missing for one or more records
CryoSat L1B data includes a waveform data flag for each measurement recor- Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001 CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T163352_C001 CS_OFFL_SIR_IOPN1B_20180806T012442_20180806T012441_C001	Test Failed Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records
CryoSat L1B data includes a waveform data flag for each measurement recornoss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 13 Product CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001 CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T012441_C001 CS_OFFL_SIR_IOPN1B_20180806T012422_20180806T012441_C001 CS_OFFL_SIR_IOPN1B_20180806T040943_20180806T041322_C001	Test Failed         Loss of Echo         Loss of Echo         Loss of Echo	Description           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
CryoSat L1B data includes a waveform data flag for each measurement recornoss of Echo Flag: This flag is currently set for products over land, but this is <b>Number of products with errors:</b> 13         Product         CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001         CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T163352_C001         CS_OFFL_SIR_IOPN1B_20180806T012422_20180806T012441_C001         CS_OFFL_SIR_IOPN1B_20180806T040943_20180806T041322_C001         CS_OFFL_SIR_IOPN1B_20180806T040943_20180806T0441322_C001	Test Failed       Loss of Echo	Description           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
CryoSat L1B data includes a waveform data flag for each measurement recors           LOSS of Echo Flag: This flag is currently set for products over land, but this is           Number of products with errors:         13           Product         13           CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001         13           CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T163352_C001         132           CS_OFFL_SIR_IOPN1B_20180806T0124422_0180806T012441_C001         132           CS_OFFL_SIR_IOPN1B_20180806T040943_20180806T041322_C001         132           CS_OFFL_SIR_IOPN1B_20180806T044215_20180806T044717_C001         132           CS_OFFL_SIR_IOPN1B_20180806T044215_20180806T044717_C001         132	Test Failed         Loss of Echo	Description           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
CryoSat L1B data includes a waveform data flag for each measurement recors           LOSS of Echo Flag: This flag is currently set for products over land, but this is           Number of products with errors:         13           Product         13           CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001         13           CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T163352_C001         13           CS_OFFL_SIR_IOPM1B_20180806T012442_20180806T012441_C001         13           CS_OFFL_SIR_IOPN1B_20180806T040943_20180806T041322_C001         13           CS_OFFL_SIR_IOPN1B_20180806T044215_20180806T04441_C001         13           CS_OFFL_SIR_IOPN1B_20180806T044215_20180806T04441_C001         14           CS_OFFL_SIR_IOPN1B_20180806T044215_20180806T044717_C001         14           CS_OFFL_SIR_IOPN1B_20180806T121649_20180806T122202_C001         14           CS_OFFL_SIR_IOPN1B_20180806T121649_20180806T122202_C001         14           CS_OFFL_SIR_IOPN1B_20180806T121649_20180806T12202_C001         14	Test Failed         Loss of Echo	Description           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
CryoSat L1B data includes a waveform data flag for each measurement recornation           Loss of Echo Flag: This flag is currently set for products over land, but this is           Number of products with errors:         13           Product         13           CS_OFFL_SIR_IOPM1B_20180806T140325_20180806T141820_C001         13           CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T163352_C001         13           CS_OFFL_SIR_IOPM1B_20180806T012422_20180806T012441_C001         13           CS_OFFL_SIR_IOPN1B_20180806T012422_20180806T012441_C001         13           CS_OFFL_SIR_IOPN1B_20180806T012422_20180806T012441_C001         13           CS_OFFL_SIR_IOPN1B_20180806T012422_20180806T012441_C001         13           CS_OFFL_SIR_IOPN1B_20180806T012422_20180806T012441_C001         13           CS_OFFL_SIR_IOPN1B_20180806T0121649_20180806T122202_C001         13           CS_OFFL_SIR_IOPN1B_20180806T130748_20180806T131024_C001         13           CS_OFFL_SIR_IOPN1B_20180806T130748_20180806T131024_C001         13	Test Failed         Loss of Echo	Description           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
4.6 L1B Waveform Group Data Check           CryoSat L1B data includes a waveform data flag for each measurement recor           Loss of Echo Flag: This flag is currently set for products over land, but this is           Number of products with errors:         13           Product         13           CS_OFFL_SIR_IOPM1B_20180806T161325_20180806T141820_C001         CS_OFFL_SIR_IOPM1B_20180806T163134_20180806T163352_C001           CS_OFFL_SIR_IOPM1B_20180806T012422_20180806T012441_C001         CS_OFFL_SIR_IOPN1B_20180806T040943_20180806T041322_C001           CS_OFFL_SIR_IOPN1B_20180806T044215_20180806T044717_C001         CS_OFFL_SIR_IOPN1B_20180806T121649_20180806T122022_C001           CS_OFFL_SIR_IOPN1B_20180806T130748_20180806T131024_C001         CS_OFFL_SIR_IOPN1B_20180806T130748_20180806T131024_C001           CS_OFFL_SIR_IOPN1B_20180806T130748_20180806T131024_C001         CS_OFFL_SIR_IOPN1B_20180806T130748_20180806T131024_C001           CS_OFFL_SIR_IOPN1B_20180806T180526_20180806T131024_C001         CS_OFFL_SIR_IOPN1B_20180806T180526_20180806T131024_C001	Test Failed         Loss of Echo         Loss of Echo	Description           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

# 5. IOP Level 2 Data Quality Check

The tracking echo is missing for one or more records The tracking echo is missing for one or more records

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). Number of products with errors:

# 5.2 L2 Product Header Analysis

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

Loss of Echo

Loss of Echo

<b>EALAA</b> ''''	
5.3 L2 Auxiliar	y Data File Usage Check

CS\_OFFL\_SIR\_IOPR1B\_20180806T134433\_20180806T135125\_C001

CS\_OFFL\_SIR\_IOPR1B\_20180806T185944\_20180806T190153\_C001

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. 82

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180805T235809_20180806T003324_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T003652_20180806T004142_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T004202_20180806T004534_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T005242_20180806T012421_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20180806T013635\_20180806T015120\_C001 CS OFFL SIR IOPM 2 20180806T015701 20180806T021256 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T021526\_20180806T022040\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T022059\_20180806T022111\_C001 CS OFFL SIR IOPM 2 20180806T022115 20180806T022251 C001 CS OFFL SIR IOPM 2 20180806T023047 20180806T024308 C001 CS OFFL SIR IOPM 2 20180806T024633 20180806T030324 C001 CS OFFL SIR IOPM 2 20180806T032559 20180806T033621 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T033801\_20180806T035143\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T035450\_20180806T035951\_C001 CS OFFL SIR IOPM 2 20180806T040029 20180806T040130 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T040825\_20180806T040942\_C001 CS OFFL SIR IOPM 2 20180806T041323 20180806T042119 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T042523\_20180806T043011\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T044003\_20180806T044215\_C001 CS OFFL SIR IOPM 2 20180806T050859 20180806T052958 C001 CS OFFL SIR IOPM 2 20180806T053522 20180806T053907 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T054635\_20180806T061404\_C001 CS OFFL SIR IOPM 2 20180806T064550 20180806T070940 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T071303\_20180806T071821\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T071828\_20180806T072154\_C001 CS OFFL SIR IOPM 2 20180806T072543 20180806T073622 C001 CS OFFL SIR IOPM 2 20180806T074200 20180806T075824 C001 CS OFFL SIR IOPM 2 20180806T081129 20180806T081304 C001 CS OFFL SIR IOPM 2 20180806T081308 20180806T081833 C001 CS OFFL SIR IOPM 2 20180806T082241 20180806T082906 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T082910\_20180806T084046\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T084453\_20180806T084904\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T085304\_20180806T090057\_C001 CS OFFL SIR IOPM 2 20180806T090645 20180806T093815 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T095015\_20180806T095230\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T101339\_20180806T102654\_C001 CS OFFL SIR IOPM 2 20180806T103234 20180806T103747 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T104452\_20180806T110559\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T110844\_20180806T112017\_C001 CS OFFL SIR IOPM 2 20180806T112934 20180806T113225 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T114843\_20180806T115452\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T115619\_20180806T120651\_C001 CS OFFL SIR IOPM 2 20180806T121420 20180806T121648 C001 CS OFFL SIR IOPM 2 20180806T122423 20180806T130026 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T131204\_20180806T133155\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T133159\_20180806T134433\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T135400\_20180806T135556\_C001 CS OFFL SIR IOPM 2 20180806T135751 20180806T140100 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T140325\_20180806T141820\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T142024\_20180806T143043\_C001 CS OFFL SIR IOPM 2 20180806T145236 20180806T150900 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T153532\_20180806T154000\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T154251\_20180806T155647\_C001 CS OFFL SIR IOPM 2 20180806T155826 20180806T160109 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T163134\_20180806T163352\_C001

Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status

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CS_OFFL_SIR_IOPM_2_20180806T164349_20180806T170636_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T171028_20180806T171906_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T172227_20180806T174634_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T181910_20180806T183455_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T183510_20180806T184602_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T185242_20180806T185702_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T190154_20180806T192646_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T193322_20180806T193943_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T195338_20180806T200854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T201427_20180806T202348_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T203155_20180806T203741_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T204101_20180806T204523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T204944_20180806T205231_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T211644_20180806T211833_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T213032_20180806T220343_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T221100_20180806T221612_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T222151_20180806T223719_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T230742_20180806T231905_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T232045_20180806T233745_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T233756_20180806T234246_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180806T054217_20180806T054427_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180806T103108_20180806T103234_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180806T180058_20180806T180118_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180806T102655_20180806T103108_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180806T131142_20180806T131203_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180806T175718_20180806T175723_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180806T235059_20180806T235106_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. 83

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180805T235809_20180806T003324_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_20180806T003652_20180806T004142_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T004202_20180806T004534_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T005242_20180806T012421_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_20180806T012606_20180806T012828_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T013635_20180806T015120_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_20180806T015602_20180806T015658_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_20180806T015701_20180806T021256_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_20180806T021526_20180806T022040_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T022059_20180806T022111_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T023047_20180806T024308_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_20180806T024633_20180806T030324_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_20180806T032559_20180806T033621_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_20180806T033801_20180806T035143_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_20180806T035450_20180806T035951_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T040029_20180806T040130_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_IOPM\_2\_20180806T041323\_20180806T042119\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T042523\_20180806T043011\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T044003\_20180806T044215\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T050859\_20180806T052958\_C001 CS OFFL SIR IOPM 2 20180806T053522 20180806T053907 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T054635\_20180806T061404\_C001 CS OFFL SIR IOPM 2 20180806T064550 20180806T070940 C001 CS OFFL SIR IOPM 2 20180806T071828 20180806T072154 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T072543\_20180806T073622\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T074200\_20180806T075824\_C001 CS OFFL SIR IOPM 2 20180806T081129 20180806T081304 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T081308\_20180806T081833\_C001 CS OFFL SIR IOPM 2 20180806T082241 20180806T082906 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T082910\_20180806T084046\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T084453\_20180806T084904\_C001 CS OFFL SIR IOPM 2 20180806T085304 20180806T090057 C001 CS OFFL SIR IOPM 2 20180806T090645 20180806T093815 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T095015\_20180806T095230\_C001 CS OFFL SIR IOPM 2 20180806T101339 20180806T102654 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T103234\_20180806T103747\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T104452\_20180806T110559\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T110844\_20180806T112017\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T112934\_20180806T113225\_C001 CS OFFL SIR IOPM 2 20180806T114843 20180806T115452 C001 CS OFFL SIR IOPM 2 20180806T115619 20180806T120651 C001 CS OFFL SIR IOPM 2 20180806T121420 20180806T121648 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T122423\_20180806T130026\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T131204\_20180806T133155\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T133159\_20180806T134433\_C001 CS OFFL SIR IOPM 2 20180806T135400 20180806T135556 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T135751\_20180806T140100\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T140325\_20180806T141820\_C001 CS OFFL SIR IOPM 2 20180806T142024 20180806T143043 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T144750\_20180806T144954\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T145236\_20180806T150900\_C001 CS OFFL SIR IOPM 2 20180806T152526 20180806T152610 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T153532\_20180806T154000\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T154251\_20180806T155647\_C001 CS OFFL SIR IOPM 2 20180806T155826 20180806T160109 C001 CS OFFL SIR IOPM 2 20180806T163134 20180806T163352 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T164349\_20180806T170636\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T171028\_20180806T171906\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T172227\_20180806T174634\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T181910\_20180806T183455\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T183510\_20180806T184602\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T185242\_20180806T185702\_C001 CS OFFL SIR IOPM 2 20180806T190154 20180806T192646 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T193322\_20180806T193943\_C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T195338\_20180806T200854\_C001 CS OFFL SIR IOPM 2 20180806T201427 20180806T202348 C001 CS\_OFFL\_SIR\_IOPM\_2\_20180806T204101\_20180806T204523\_C001 SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

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

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

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

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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.

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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.

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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_20180806T211644_20180806T211833_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_20180806T213032_20180806T220343_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_20180806T221100_20180806T221612_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180806T222151_20180806T223719_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_20180806T225543_20180806T225729_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_20180806T230742_20180806T231905_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_20180806T232045_20180806T233745_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_20180806T233756_20180806T234246_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_20180806T235106_20180806T235518_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180806T054217_20180806T054427_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_20180806T103108_20180806T103234_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180806T180058_20180806T180118_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_20180806T102655_20180806T103108_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_20180806T131142_20180806T131203_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_20180806T175718_20180806T175723_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_20180806T235059_20180806T235106_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
5 % 1 2 Occan Batracking Quality Check		

#### 5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors:

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

### 6.1 P2P Product Format Check

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

#### 6.2 P2P Product Header Analysis

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

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

#### 6.4 P2P Auxiliary Correction Error Check

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

0

0

72

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

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180805T235201_20180806T004141_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_220180806T004141_20180806T013115_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T013115_20180806T022054_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_220180806T022054_20180806T031029_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_220180806T031029_20180806T040008_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_220180806T040008_20180806T044942_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T044942_20180806T053922_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_220180806T053922_20180806T062856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T062856_20180806T071835_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_220180806T071835_20180806T080809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T080809_20180806T085749_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_220180806T085749_20180806T094723_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_220180806T094723_20180806T103703_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_220180806T103703_20180806T112637_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T112637_20180806T121616_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T121616_20180806T130550_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T130550_20180806T135530_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T135530_20180806T144504_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T144504_20180806T153443_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_220180806T153443_20180806T162417_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_220180806T162417_20180806T171357_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_220180806T171357_20180806T180331_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_220180806T180331_20180806T185311_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_220180806T185311_20180806T194245_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_220180806T194245_20180806T203224_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_220180806T203224_20180806T212158_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_220180806T212158_20180806T221138_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_220180806T221138_20180806T230112_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T230112_20180806T235051_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T235051_20180807T004025_C001	Ice Range Averaging Status	The Ice 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
CS_OFFL_SIR_IOP_220180805T235201_20180806T004141_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_220180806T004141_20180806T013115_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_220180806T013115_20180806T022054_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_220180806T022054_20180806T031029_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_220180806T031029_20180806T040008_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_220180806T040008_20180806T044942_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_220180806T044942_20180806T053922_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_220180806T053922_20180806T062856_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_220180806T062856_20180806T071835_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_220180806T071835_20180806T080809_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_220180806T080809_20180806T085749_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_220180806T085749_20180806T094723_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_220180806T094723_20180806T103703_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_220180806T103703_20180806T112637_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_220180806T112637_20180806T121616_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_220180806T121616_20180806T130550_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_220180806T130550_20180806T135530_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_220180806T135530_20180806T144504_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_220180806T144504_20180806T153443_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_220180806T153443_20180806T162417_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_220180806T162417_20180806T171357_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_220180806T171357_20180806T180331_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T180331_20180806T185311_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_220180806T185311_20180806T194245_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_220180806T194245_20180806T203224_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_220180806T203224_20180806T212158_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_220180806T212158_20180806T221138_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_220180806T221138_20180806T230112_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_220180806T230112_20180806T235051_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_220180806T235051_20180807T004025_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has 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

CS_OFFL_SIR_IOP_2_20198967723201_201989677001411_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201989667701315_2019896677022054_2019Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201989667701315_2019896677022054_2019808677022054_2019808677031029_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_2019898677032054_201980867703202Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201989867704292_201989867704292_201989867704292Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201989867704282_20101Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20198986771882_201989867112837_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_201989867112857_201980867112857_201Ocean Retracking Qua	Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20180806T013115_20180806T02204_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T022064_20180806T031029_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T04008_20180806T044042_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T044042_20180806T044942_C011       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T044942_20180806T044942_C01       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T0462856_20180806T01835_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T060809_C01       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T080809_C0180806T08749_C01       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T031022_20180806T04732_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T031050_20180806T113650	CS_OFFL_SIR_IOP_220180805T235201_20180806T004141_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T022054_20180806T031029_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_IOP_2_20180806T040008_20180806T044042_0001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_IOP_2_20180806T044042_20180806T053922_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_IOP_2_20180806T053922_0180806T053922_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_IOP_2_20180806T053852_0180806T063856_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_IOP_2_20180806T071835_0180806T08689_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_IOP_2_20180806T08749_0180806T08749_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag         CS_OFFL_SIR_IOP_2_20180806T03703_0180806T03703_001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag <td< td=""><td>CS_OFFL_SIR_IOP_220180806T004141_20180806T013115_C001</td><td>Ocean Retracking Quality Flag</td><td>The Ocean Retracking Quality Flag has been set for one or more records.</td></td<>	CS_OFFL_SIR_IOP_220180806T004141_20180806T013115_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_JOP_2_20180806T040008_00180806T040008_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T044042_0180806T044942_0001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T044942_0180806T044942_0180806T044942_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T053922_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T062856_01980806T044942_0180806T048552_001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T071835_0198080F036789_0010Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T036794_0188080F104703_0010Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T036732_0180806T036732_0010Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T103703_0180806T103703_0010Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_JOP_2_20180806T135550_0180806T135550_01180806T135550_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_01180806T135530_	CS_OFFL_SIR_IOP_220180806T013115_20180806T022054_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T040082_20180806T046442_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180806T033922_20180806T053922_20180806T053922_20180806T053922_20180806T053922_20180806T053922_20180806T053922_20180806T053922_20180806T053922_20180806T053922_20180806T071835_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag has been set for one or more records.CS_OFFL_SIR_IOP_2_20180806T071835_20180806T071835_20180806T071835_20180806T071835_20180806T071835_20180806T071835_20180806T085749_20180806T085749_20180806T085749_20180806T085749_20180806T085749_20180806T085749_20180806T085749_20180806T094723_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag bas been set for one or more records.CS_OFFL_SIR_IOP_2_20180806T08749_20180806T094723_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag bas been set for one or more records.CS_OFFL_SIR_IOP_2_20180806T03703_20180806T103703_20180806T112837_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag bas been set for one or more records.CS_OFFL_SIR_IOP_2_20180806T13050_20180806T13550_C001Ocean Retracking Quality FlagThe Ocean Retracking Quality Flag bas been set for one or more records.CS_OFFL_SIR_IOP_2_20180806T13550_20180806T13550_20180060T13550_20180806T13550	CS_OFFL_SIR_IOP_220180806T022054_20180806T031029_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T04494_20180806T053922_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T062856_C0180006T071835_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T071835_C0180806T071835_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T080809_20180806T085749_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T085749_20180806T094723_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T094723_20180806T094723_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T094723_20180806T103703_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T130550_C001         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_IOP_2_20180806T130550_C011         Ocean Retracking Quality Flag         The Ocean Retracking Quality Flag has been set for one or more records.           CS_OFFL_SIR_I	CS_OFFL_SIR_IOP_220180806T031029_20180806T040008_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
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CS_OFFL_SIR_IOP_2_20180806T162417_20180806T171357_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T171357_20180806T180331_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T180331_20180806T180331_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T180331_20180806T194245_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180806T144504_20180806T153443_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T171357_20180806T180331_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T180331_20180806T185311_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T185311_20180806T194245_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180806T153443_20180806T162417_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T180331_20180806T185311_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T185311_20180806T194245_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180806T162417_20180806T171357_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.         CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001       Ocean Retracking Quality Flag       The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180806T171357_20180806T180331_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T194245_20180806T203224_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180806T180331_20180806T185311_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_IOP_220180806T185311_20180806T194245_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_2_20180806T203224_20180806T212158_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.	CS_OFFL_SIR_IOP_220180806T194245_20180806T203224_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
	CS_OFFL_SIR_IOP_220180806T203224_20180806T212158_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220180806T212158_20180806T221138_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T221138_20180806T230112_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180806T230112_20180806T235051_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.