



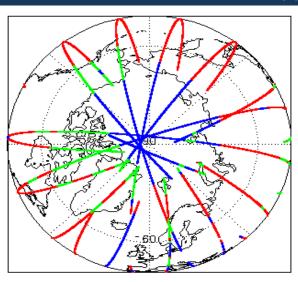
## 1. Overview

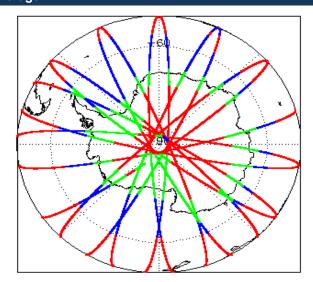
Report Production:	04-Oct-2018	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NO	

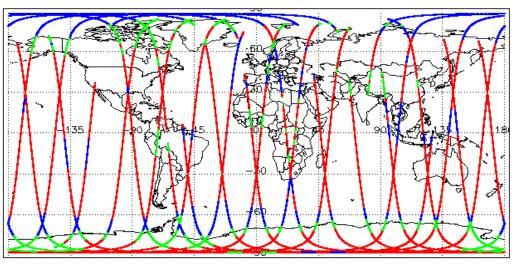
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 5.2
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	Nominal
Measurement Confidence Data Check	See Section 4.5, 4.6
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7
Ocean Retracking Quality Check	See Section 5.8

Mission / Instrument News		
29-Sep-2018	None	
30-Sep-2018	None	
01-Oct-2018	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

# 4. NOP Level 1B Data Quality Check

## 4.1 L1B Product Format Check

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

Number of products with errors:

0

## 4.2 L1B Product Header Analysis

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

#### 4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

#### 4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

### 4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for NOPR products 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 record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

13

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20180930T000131_20180930T001601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180930T004958_20180930T010254_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180930T104911_20180930T110237_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180930T125612_20180930T131226_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180930T010951_20180930T011145_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180930T060318_20180930T060433_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180930T111056_20180930T111217_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180930T142922_20180930T143128_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180930T152151_20180930T152432_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180930T210031_20180930T210249_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180930T064537_20180930T064827_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180930T164853_20180930T165201_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180930T224210_20180930T224934_C001	Loss of Echo	The tracking echo is missing for one or more records

## 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

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

Number of products with errors:

0

## 5.2 L2 Product Header Analysis

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

Number of products with errors:

0

### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

## 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

0

## 5.6 L2 Range Measurement Check

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

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

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

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

Number of products with errors:

77

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180930T000131_20180930T001601_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T001859_20180930T002355_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T002433_20180930T002553_C001	lice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T003309_20180930T004516_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

Comparison   Com			The Ocean Range Averaging Status Flag has been set for one or more
CONTRUENCE DE CO	CS_OFFL_SIR_NOPM_2_20180930T004958_20180930T010254_C001	Ocean Range Averaging Status	records.
Corp., Spi John J. 20100007700140 2010007700140 Corp. Spi John J. 2010007700140 2010007700140 Corp. Spi John J. 2010007700140 2010007700140 Corp. Spi John J.	CS_OFFL_SIR_NOPM_2_20180930T014053_20180930T015440_C001	Ocean Range Averaging Status	records.
CONTENTION OF THE WORK OF THE CONTENT OF THE CONTEN	CS_OFFL_SIR_NOPM_2_20180930T015827_20180930T020308_C001	Ice Range Averaging Status	records.
Security Services Applications of the Committee of the Co	CS_OFFL_SIR_NOPM_2_20180930T021102_20180930T023631_C001	Ocean Range Averaging Status	records.
COUNTY DISTRICTURES CONTRIBUTED AND CONTRIBUTED CONTRI	CS_OFFL_SIR_NOPM_2_20180930T044915_20180930T051306_C001	Ocean Range Averaging Status	records.
COLL SER NORM 2. 20100001101000, 201000001100010, CD01 COLOR Register American State COLOR FLORE ACTION AND ACTION ACTION AND ACTION AND ACTION AND ACTION AND ACTION ACTION AND ACTION ACTION AND ACTION AC	CS_OFFL_SIR_NOPM_2_20180930T051641_20180930T052135_C001	Ice Range Averaging Status	
Committee (Committee) (Committ	CS_OFFL_SIR_NOPM_2_20180930T052143_20180930T052511_C001	Ice Range Averaging Status	
SOFTE, SENONE 2 proteograf rocket processor (section for state processor)  SOFTE, SENONE 2 proteograf rocket processor (section for state processor)  SOFTE, SENONE 2 proteograf rocket processor (section for state processor)  SOFTE, SENONE 2 proteograf rocket processor (section for state processor)  SOFTE, SENONE 2 proteograf rocket proteograf rocket processor (section for state processor)  SOFTE, SENONE 2 proteograf rocket proteograf rocket processor (section for state proces	CS_OFFL_SIR_NOPM_2_20180930T052950_20180930T053952_C001	Ocean Range Averaging Status	
Construction Land Construction	CS_OFFL_SIR_NOPM_2_20180930T054526_20180930T060318_C001	Ocean Range Averaging Status	
COPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST COPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_2_CONTROL_COST CO_OPT_SILNOPH_2_DISSIDITIONS_2_SIRRODITIONS_COST CO_OPT_SILNOPH_2_DISSIDITIONS_COST CO_OPT_SIL	CS_OFFL_SIR_NOPM_2_20180930T061435_20180930T061904_C001	Ocean Range Averaging Status	
Co. Perl. Sell, NOMA_2_20100000170000_20100000170000_2010000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_20100000170000_201000001700000_2010000001700000_2010000001700000_201000001700000_201000001700000_2010000001700000_2010000001700000_201000001700000_2010000001700000_2010000000000	CS_OFFL_SIR_NOPM_2_20180930T064827_20180930T064949_C001	Ocean Range Averaging Status	
CS_CPFL_SIN_NOML_2_collaborationable_2 between city or we immediately control to the control of	CS_OFFL_SIR_NOPM_2_20180930T065639_20180930T070206_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFF_SR_NOML_20160037707359_20160007707547_C001  Ooen Range Averaging States  Ooen Range Averaging St	CS_OFFL_SIR_NOPM_2_20180930T070930_20180930T073247_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NONL_2 20160601107643_20160001107640_C01010 CS_OFFL_SIR_NONL_2 20160601107640_C010001000100010001000010000000000000	CS_OFFL_SIR_NOPM_2_20180930T073254_20180930T074417_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_CPFL_SIR_NOPM_2_010000001103700_2010000001103000_C0010  CS_CPFL_SIR_NOPM_2_0100000010030001416_2010000001103000_C0010  CS_CPFL_SIR_NOPM_2_0100000010030001410_2010000001103000_C0010  CS_CPFL_SIR_NOPM_2_01000000100300120000_C001003000_C00100000000000000000000	CS_OFFL_SIR_NOPM_2_20180930T075436_20180930T075647_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Co. OFFL, SIR, NORM 2, 20180000T1004192, 20180000T1005002, C0010  Co. OFFL, SIR, NORM 2, 20180000T1004102, 20180000T104002, C0010  Co. OFFL, SIR, NORM 2, 20180000T1004102, 20180000T110027, C0010  Co. OFFL, SIR, NORM 2, 20180000T110002, 20180000T110002, C0010  Co. OFFL, SIR, NORM 2, 20180000T100002, 20180000T110002, C0010  Co. OFFL, SIR, NORM 2, 20180000T1000001 C0010  Co. OFFL, SIR, NORM 2, 20180000T10000001 C0010  Co. OFFL, SIR, NORM 2, 20180000T1000000000000000000000000000000	CS OFFL SIR NOPM 2 20180930T075700 20180930T075713 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_CFFL_SIR_NOPM_2_20160000T1004000_20160000T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1004010_20160000T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1004010_20160000T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1004010_20160000T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1004010_20160000T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1004000_COOL  CS_CFFL_SIR_NOPM_2_20160000T1004000C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1004000C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T1100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_20160000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_0016000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_0016000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_0016000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_0016000T100400C00T100400_COOL  CS_CFFL_SIR_NOPM_2_0016000T100400C00T1		Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T109480_20180930T109455_C001  Cs_OFFL_SIR_NOPM_2_20180930T109451_20180930T109455_C001  Cs_OFFL_SIR_NOPM_2_20180930T109452_20180930T109455_C001  Cs_OFFL_SIR_NOPM_2_20180930T109452_20180930T109455_C001  Cs_OFFL_SIR_NOPM_2_20180930T109452_20180930T109456_C001  Cosin Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag			The Ice Range Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_NOPM_2_201809001102912_201809001104218_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  Descript_Sir_NOPM_2_201809001104218_2010100001104218_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averag			
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Ocean Range Averaging Status Fig. NoPM_2 201809301114921_201809301119327_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 201809301119327_C01809301114932_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 201809301119327_C01809301114932_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 201809301119327_C01809301114932_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 201809301112927_C01809301114932_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 201809301112927_C0180930112932_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 201809301129270_C0180930112293_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 20180930112293_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 20180930112930_C0180930112935_C001 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 20180930113935_C0180930113933_C010 Ocean Range Averaging Status CS_OFFL_SIR_NOPM_2 20180930113935_C01809			records.
CS_OFFL_SIR_NOPM_2_20160300T10425_20160300T110			records.
CS_OFFL_SIR_NOPM_2_20180930T113232_C0001  Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Averaging Status Fine plas been set for one or more fectoris. Fine Ocean Range Av		Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_201803007113957_201803007114942_C0010  CS_OFFL_SIR_NOPM_2_20180300712070_20180300712430_C0011  CS_OFFL_SIR_NOPM_2_201803007122300_201803007122302_C0011  CS_OFFL_SIR_NOPM_2_201803007122302_201803007122302_C0011  CS_OFFL_SIR_NOPM_2_201803007122302_201803007122302_C0011  CS_OFFL_SIR_NOPM_2_201803007122302_201803007122302_C0011  CS_OFFL_SIR_NOPM_2_201803007122300_201803007123202_C0011  CS_OFFL_SIR_NOPM_2_201803007122300_201803007122302_C0011  CS_OFFL_SIR_NOPM_2_201803007122300_201803007123202_C0011  CS_OFFL_SIR_NOPM_2_201803007123500_201803007123202_C0011  CS_OFFL_SIR_NOPM_2_201803007123500_201803007123202_C0011  CS_OFFL_SIR_NOPM_2_201803007123500_201803007123402_C0011  CS_OFFL_SIR_NOPM_2_20180300713300_201803007134022_C0011  CS_OFFL_SIR_NOPM_2_20180300713300_20180300713300_C0011  CS_OFFL_SIR_NOPM_2_20180300713300_20180300713300_C0011  CS_OFFL_SIR_NOPM_2_20180300713404_20180300713300_C0011  CS_OFFL_SIR_NOPM_2_201803007134050_20180300713400_C0011  CS_OFFL_SIR_NOPM_2_20180300713400_0018030713400_C0011  CS_OFFL_SIR_NOPM_2_20180300713400_0018030713400_C0011  CS_OFFL_SIR_NOPM_2_20180300713400_0018030713400_C0011  CS_OFFL_SIR_NOPM_2_201803007113406_20180300713400_C0011  CS_OFFL_SIR_NOPM_2_201803007113406_201803007113400_C0011  CS_OFFL_SIR_NOPM_2_201803007113406_201803007113400_C0011  CS_OFFL_SIR_NOPM_2_201803007113406_2018030071134	CS_OFFL_SIR_NOPM_2_20180930T104911_20180930T110237_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180930712070_20180930712314_C001  CS_OFFL_SIR_NOPM_2_201809307122070_20180930712234_C001  CS_OFFL_SIR_NOPM_2_201809307122332_201809307122352_C001  CS_OFFL_SIR_NOPM_2_201809307122332_201809307122352_C001  CS_OFFL_SIR_NOPM_2_201809307122312_C001  CS_OFFL_SIR_NOPM_2_201809307125115_201809307125202_C001  CS_OFFL_SIR_NOPM_2_201809307125115_201809307125202_C001  CS_OFFL_SIR_NOPM_2_20180930712510_201809307125443_C001  CS_OFFL_SIR_NOPM_2_20180930712510_201809307125402_C001  CS_OFFL_SIR_NOPM_2_201809307125402_201809307125402_C001  CS_OFFL_SIR_NOPM_2_201809307125402_20180930713202_C001  CS_OFFL_SIR_NOPM_2_201809307125402_001809307125402_C001  CS_OFFL_SIR_NOPM_2_201809307125402_001809307142000_C001  CS_OFFL_SIR_NOPM_2_201809307140542_201809307140000_C001  CS_OFFL_SIR_NOPM_2_201809307140542_201809307140000_C001  CS_OFFL_SIR_NOPM_2_201809307140542_201809307140000_C001  CS_OFFL_SIR_NOPM_2_201809307140542_201809307140000_C001  CS_OFFL_SIR_NOPM_2_201809307140542_201809307140000_C001  CS_OFFL_SIR_NOPM_2_201809307140542_201809307140000_C001  CS_OFFL_SIR_NOPM_2_201809307140542_2018093071400000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20180930T111612_20180930T113321_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180930112010021809301122134_C001  Cs_OFFL_SIR_NOPM_2_20180930112235_021809301122396_C001  Cs_OFFL_SIR_NOPM_2_20180930112235_021809301122396_C001  Cs_OFFL_SIR_NOPM_2_20180930112235_0201809301122396_C001  Cs_OFFL_SIR_NOPM_2_20180930112515_021809301122396_C001  Cs_OFFL_SIR_NOPM_2_20180930112515_021809301122306_C001  Cs_OFFL_SIR_NOPM_2_20180930112515_021809301125206_C001  Cs_OFFL_SIR_NOPM_2_201809301125300_201809301125206_C001  Cs_OFFL_SIR_NOPM_2_20180930112515_02180930113226_C001  Cs_OFFL_SIR_NOPM_2_201809301131745_02180930113206_C001  Cs_OFFL_SIR_NOPM_2_201809301131745_02180930113033_C001  Cs_OFFL_SIR_NOPM_2_201809301131745_021809301134020_C001  Cs_OFFL_SIR_NOPM_2_201809301134042_01809301140200_C001  Cs_OFFL_SIR_NOPM_2_20180930113404201809301140200_C001  Cs_OFFL_SIR_NOPM_2_201809301140452_01809301140200_C001  Cs_OFFL_SIR_NOPM_2_201809301140452_01809301140200_C001  Cs_OFFL_SIR_NOPM_2_201809301140452_01809301140200_C001  Cs_OFFL_SIR_NOPM_2_201809301140452_01809301140200_C001  Cs_OFFL_SIR_NOPM_2_201809301140452_01809301140200_C001  Cs_OFFL_SIR_NOPM_2_201809301140452_01809301140515_C001  Cc_OFFL_SIR_NOPM_2_201809301140452_01809301140515_C001  Cc_OFFL_SIR_NOPM_2_201809301140545_01809301140515_C001  Cc_OFFL_SIR_NOPM_2_201809301140545_01809301140545_C001  Cc_OFFL_SIR_NOPM_2_201809301180545_01809301140545_C001  Cc_OFFL_SIR_NOPM_2_201809301180545_018093011405455_C001  Cc_OFFL_SIR_NOPM_2_20180930	CS_OFFL_SIR_NOPM_2_20180930T113527_20180930T114942_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T12235g_20180930T122502_2001  CS_OFFL_SIR_NOPM_2_20180930T12515g_20180930T12502_2001  CS_OFFL_SIR_NOPM_2_20180930T12515g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T12543g_20180930T13432g_20180g_30T13433g_20180g_30T13433g_20180g_30T13433g_20180g_30T13433g_20180g_30T13433g_20180g_30T13433g_20180g_30T13433g_2	CS_OFFL_SIR_NOPM_2_20180930T120010_20180930T120420_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180930T123252_20180930T123252_C0010000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20180930T120700_20180930T122134_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180930T12515_20180930T12520C_0001  CS_OFFL_SIR_NOPM_2_20180930T12515_20180930T12520C_0001  CS_OFFL_SIR_NOPM_2_20180930T12520C_0001  CS_OFFL_SIR_NOPM_2_20180930T12520C_0001  CS_OFFL_SIR_NOPM_2_20180930T125415_20180930T13226_0001  CS_OFFL_SIR_NOPM_2_20180930T131245_20180930T132303C_0011  CS_OFFL_SIR_NOPM_2_20180930T131245_20180930T132303C_0010  CS_OFFL_SIR_NOPM_2_20180930T134644_20180930T140260C_0001  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T140505_20180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T14074422_20180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T1407452_0180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T14074422_0180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T140744422_0180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T1407452_0180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T140744422_0180930T14074_C0011  CS_OFFL_SIR_NOPM_2_20180930T114074_C0010  CS_OFFL_SIR_NOPM_2_20180930T1407405_011  CS_OFFL_SIR_NOPM_2_20180930T1407405_011  CS_OFFL_SIR_NOPM_2_20180930T15015_011  CS_OFFL_SIR_NOPM_2_20180930T15016_011  CS_OFFL_SIR_NOPM_2_20180930T15016_012  CS_OFFL_SIR_NOPM_2_20180930T15016_012  CS_OFFL_SIR_NOPM_2_20180930T1763845_20180930T16935_0011  CS_OFFL_SIR_NOPM_2_20180930T1763845_20180930T16935_0011  CS_OFFL_SIR_NOPM_2_20180930T1763845_20180930T178516_01	CS_OFFL_SIR_NOPM_2_20180930T122335_20180930T122359_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_2018093017125300_2018093017125403_C001  Ocean Range Averaging Status  CS_OFFL_SIR_NOPM_2_2018093017125012_201809301713126_C001  Ocean Range Averaging Status  CS_OFFL_SIR_NOPM_2_20180930171307145_201809301713033_C001  Ocean Range Averaging Status  CS_OFFL_SIR_NOPM_2_20180930171307145_201809301713033_C001  Ocean Range Averaging Status  Ice Range Averaging Status  CS_OFFL_SIR_NOPM_2_2018093017130506_201809301713032_C001  Ocean Range Averaging Status  Ocean Range Averaging Status  CS_OFFL_SIR_NOPM_2_2018093017140452_2018093017140420_C001  Ocean Range Averaging Status  Ocean Range Aver	CS_OFFL_SIR_NOPM_2_20180930T122402_20180930T123258_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T13515_20180930T13256_CO01  CS_OFFL_SIR_NOPM_2_20180930T13515_CO01  CS_OFFL_SIR_NOPM_2_20180930T13505_20180930T13452_CO01  CS_OFFL_SIR_NOPM_2_20180930T13505_20180930T1404020_CO01  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T140704_CO01  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T140704_CO01  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T140704_CO01  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T14050_CO01  CS_OFFL_SIR_NOPM_2_20180930T140505_20180930T14050_CO01  CS_OFFL_SIR_NOPM_2_20180930T140505_20180930T14050_CO01  CS_OFFL_SIR_NOPM_2_20180930T15565_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T150555_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T150555_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T150555_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T15055_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T15055_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T15055_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO01  CS_OFFL_SIR_NOPM_2_20180930T160530_CO0180930T176550_CO0180930T176550_CO0180930T176550_CO0180930T176550_CO0180930T176550_CO0180930T176500_CO0180930T176500_CO0180930T1765000T18050T1	CS_OFFL_SIR_NOPM_2_20180930T125115_20180930T125202_C001	Ice Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T13745_20180930T133033_CO01  CS_OFFL_SIR_NOPM_2_20180930T13745_20180930T133303_CO01  CS_OFFL_SIR_NOPM_2_20180930T134052_20180930T144328_CO01  CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T144328_CO01  CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T144328_CO01  CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T144328_CO01  CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T144328_CO01  CS_OFFL_SIR_NOPM_2_20180930T151611_CO01  CS_OFFL_SIR_NOPM_2_20180930T151611_20180930T15105_CO01  CS_OFFL_SIR_NOPM_2_20180930T151611_20180930T15105_CO01  CS_OFFL_SIR_NOPM_2_20180930T151611_20180930T15015_CO01  CS_OFFL_SIR_NOPM_2_20180930T151611_20180930T15015_CO01  CS_OFFL_SIR_NOPM_2_20180930T15055_20180930T15015_CO01  CS_OFFL_SIR_NOPM_2_20180930T15055_20180930T15015_CO01  CS_OFFL_SIR_NOPM_2_20180930T15055_20180930T15055_CO01  CS_OFFL_SIR_NOPM_2_20180930T15055_20180930T16330T_CO01  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T16330T_CO01  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T16355_CO01  CS_OFFL_SIR_NOPM_2_20180930T162151_CO01  CS_OFFL_SIR_NOPM_2_20180930T162151_CO01  CS_OFFL_SIR_NOPM_2_20180930T162151_CO01  CS_OFFL_SIR_NOPM_2_20180930T162153_20180930T16330T_CO01  CS_OFFL_SIR_NOPM_2_20180930T162153_20180930T16330T_CO01  CS_OFFL_SIR_NOPM_2_20180930T162153_20180930T164855_CO01  CS_OFFL_SIR_NOPM_2_20180930T162151_CO01  CS_OFFL_SIR_NOPM_2_20180930T16330T_CO01  CS_OFFL_SIR_NOPM_2_20180930T16330T_CO01  CS_OFFL_SIR_NOPM_2_20180930T16330T_CO01  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T173145_CO01  CG_ORAR ange Averaging Status  COCOAN Range Averaging Status Flag has been set for one or more recoords.  CS_OFFL_SIR_NOPM_2_20180930T18314_20180930T184031_CO01  CG_ORAR ange Averaging Status  COCOAN Range Averaging Status  The Ocoan Range Averaging Status Flag has been set for one or more recoords.  The Ocoan Range Averaging Status Flag has been set for one or more recoords.  The Ocoan Range Averaging Status Flag has been set for one or more recoords.  The Ocoan Range Averaging Status Flag has been set for one or more recoords.	CS_OFFL_SIR_NOPM_2_20180930T125300_20180930T125443_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T133506_20180930T134322_C001  Cean Range Averaging Status  The loce Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T144322_20180930T151015_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T154955_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T162655_20180930T16395_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Oce	CS_OFFL_SIR_NOPM_2_20180930T125612_20180930T131226_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T144644_20180930T140020_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T15015_C001  Ocean Range Averaging Status  CS_OFFL_SIR_NOPM_2_20180930T151641_20180930T152151_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range	CS_OFFL_SIR_NOPM_2_20180930T131745_20180930T133033_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T140704_C001  CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T1440704_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T151015_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T15641_20180930T152151_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T154955_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T164853_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T173145_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T173145_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more reco	CS_OFFL_SIR_NOPM_2_20180930T133506_20180930T134322_C001	Ice Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T14350S_20180930T14432B_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T16330T_C001  Ocean Range Averaging Status  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T173145_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or	CS_OFFL_SIR_NOPM_2_20180930T134644_20180930T140200_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T151015_C001  CS_OFFL_SIR_NOPM_2_20180930T151641_20180930T152151_C001  CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T152455_C001  CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T154955_C001  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T163307_C001  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T164853_C001  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T164853_C001  CS_OFFL_SIR_NOPM_2_20180930T170530_20180930T173145_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T19231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T194319_C001  CS_OFFL_SI	CS_OFFL_SIR_NOPM_2_20180930T140452_20180930T140704_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T151641_20180930T152151_C001  CS_OFFL_SIR_NOPM_2_20180930T151641_20180930T152151_C001  CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T152655_C001  CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T154955_C001  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T163307_C001  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T164853_C001  CS_OFFL_SIR_NOPM_2_20180930T170530_20180930T173145_C001  CS_OFFL_SIR_NOPM_2_20180930T170530_20180930T173145_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T173145_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T18401809_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184481_C001  CS_OFFL_SIR_NOPM_2_20180930T184009_C001  CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194403_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  COean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been se	CS_OFFL_SIR_NOPM_2_20180930T143505_20180930T144328_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_NOPM_2_20180930T151641_20180930T152655_20180930T152655_C001  CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T154955_C001  CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T163307_C001  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T1638307_C001  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T164853_C001  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T170530_20180930T170530_20180930T170530_20180930T170530_20180930T170530_20180930T170530_20180930T170530_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T201721_C001  CCEAR Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Statu	CS_OFFL_SIR_NOPM_2_20180930T144422_20180930T151015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T154955_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T164853_C001  Ocean Range Averaging Status  CS_OFFL_SIR_NOPM_2_20180930T170530_20180930T173145_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Rang	CS_OFFL_SIR_NOPM_2_20180930T151641_20180930T152151_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T164853_C001  CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T164853_C001  CS_OFFL_SIR_NOPM_2_20180930T170530_20180930T173145_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T173145_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  CS_OFFL_SIR_NOPM_2_20180930T194003_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T20722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C	CS_OFFL_SIR_NOPM_2_20180930T152655_20180930T154955_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T163845_20180930T164853_C001  CS_OFFL_SIR_NOPM_2_20180930T170530_20180930T173145_C001  CS_OFFL_SIR_NOPM_2_20180930T175516_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T182715_C001  CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T19231_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194613_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194611_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T201517_C	CS_OFFL_SIR_NOPM_2_20180930T162138_20180930T163307_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T170530_20180930T173145_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.	CS OFFL SIR NOPM 2 20180930T163845 20180930T164853 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T182516_20180930T182715_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ice Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T192231_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T183514_20180930T184039_C001  Ice Range Averaging Status  The Ice Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T184448_20180930T184831_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.			The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T192231_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  Ocean Range Averaging Status  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.  The Ocean Range Averaging Status Flag has been set for one or more records.			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180930T191900_20180930T1923T_C001  CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T20151811			
CS_OFFL_SIR_NOPM_2_20180930T193413_20180930T194319_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T194603_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T200722_C001  CS_OFFL_SIR_NOPM_2_20180930T201411_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_SIR_NOPM_2_20180930T201517_C001  CS_OFFL_			records.
CS_OFFL_SIR_NOPM_2_201809301194003_201809301200722_C001  CS_OFFL_SIR_NOPM_2_201809301201411_201809301201517_C001  Ice Range Averaging Status			records.
			records.
	CS_UFFL_SIK_NUPM_2_201809301201411_20180930T201517_C001	ice Range Averaging Status	

CS_OFFL_SIR_NOPM_2_20180930T201521_20180930T201930_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T202458_20180930T204106_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T205912_20180930T205953_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T211105_20180930T214607_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T215435_20180930T215810_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T220515_20180930T223700_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T224934_20180930T230357_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T230838_20180930T232523_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T232758_20180930T233313_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T233320_20180930T233326_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T234323_20180930T235654_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180930T020340_20180930T020346_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180930T020500_20180930T020836_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180930T025531_20180930T025607_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180930T115046_20180930T115219_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180930T124520_20180930T124536_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180930T224106_20180930T224210_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180930T002355_20180930T002401_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180930T013237_20180930T014052_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180930T070521_20180930T070930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180930T100840_20180930T101538_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180930T160330_20180930T160415_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.

Number of products with errors: 73

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180930T000131_20180930T001601_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_NOPM_2_20180930T001859_20180930T002355_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T002433_20180930T002553_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T004958_20180930T010254_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_NOPM_2_20180930T014053_20180930T015440_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_NOPM_2_20180930T015827_20180930T020308_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T021102_20180930T023631_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_NOPM_2_20180930T043617_20180930T044415_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_NOPM_2_20180930T044915_20180930T051306_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_NOPM_2_20180930T051641_20180930T052135_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T052143_20180930T052511_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T052950_20180930T053952_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_NOPM_2_20180930T054526_20180930T060318_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_NOPM_2_20180930T061435_20180930T061904_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_NOPM_2_20180930T064827_20180930T064949_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_NOPM_2_20180930T065639_20180930T070206_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180930T070930_20180930T073247_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_NOPM_2_20180930T073254_20180930T074417_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_NOPM_2_20180930T075436_20180930T075647_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_NOPM_2_20180930T081416_20180930T083032_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_NOPM_2_20180930T083600_20180930T084103_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T084802\_20180930T092355\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T093419 20180930T093529 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T094547\_20180930T100840\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T102802\_20180930T104218\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T104255 20180930T104429 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T104911\_20180930T110237\_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS OFFL SIR NOPM 2 20180930T111612 20180930T113321 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T113527 20180930T114942 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T120700\_20180930T122134\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T122402\_20180930T123258\_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20180930T125115 20180930T125202 C001 Ice Backscatter Averaging Status records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T125300\_20180930T125443\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T125612 20180930T131226 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T131745\_20180930T133033\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T133506\_20180930T134322\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T134644 20180930T140200 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T140452\_20180930T140704\_C001 Backscatter Averaging Status more records The SWH and Ocean Averaging Status Flags have been set for one or SWH Averaging Status, Ocean CS\_OFFL\_SIR\_NOPM\_2\_20180930T144422\_20180930T151015\_C001 Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T151359\_20180930T151600\_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T151641\_20180930T152151\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T152655\_20180930T154955\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T162138 20180930T163307 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T163845\_20180930T164853\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20180930T165605 20180930T170208 C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T170530 20180930T173145 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T175516\_20180930T182715\_C001 **Backscatter Averaging Status** more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T183514\_20180930T184039\_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T191900\_20180930T192231\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T193413\_20180930T194319\_C001 more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T194603 20180930T200722 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T201411\_20180930T201517\_C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T201521\_20180930T201930\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T202458 20180930T204106 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T211105\_20180930T214607\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T215435\_20180930T215810\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPM 2 20180930T220515 20180930T223700 C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T224934\_20180930T230357\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T230838\_20180930T232523\_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR NOPM 2 20180930T232758 20180930T233313 C001 Ice Backscatter Averaging Status records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPM\_2\_20180930T233320\_20180930T233326\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPM\_2\_20180930T234323\_20180930T235654\_C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS OFFL SIR NOPN 2 20180930T020340 20180930T020346 C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPN\_2\_20180930T020500\_20180930T020836\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPN 2 20180930T025531 20180930T025607 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPN\_2\_20180930T115046\_20180930T115219\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPN\_2\_20180930T124520\_20180930T124536\_C001 Backscatter Averaging Status more records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPN 2 20180930T224106 20180930T224210 C001 Backscatter Averaging Status more records The Ice Backscatter Averaging Status Flag has been set for one or more CS\_OFFL\_SIR\_NOPR\_2\_20180930T002355\_20180930T002401\_C001 Ice Backscatter Averaging Status records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPR\_2\_20180930T013237\_20180930T014052\_C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS OFFL SIR NOPR 2 20180930T070521 20180930T070930 C001 Backscatter Averaging Status more records SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one or CS\_OFFL\_SIR\_NOPR\_2\_20180930T100840\_20180930T101538\_C001 Backscatter Averaging Status more records.

SWH Averaging Status, Ocean Backscatter Averaging Status

# 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:

53