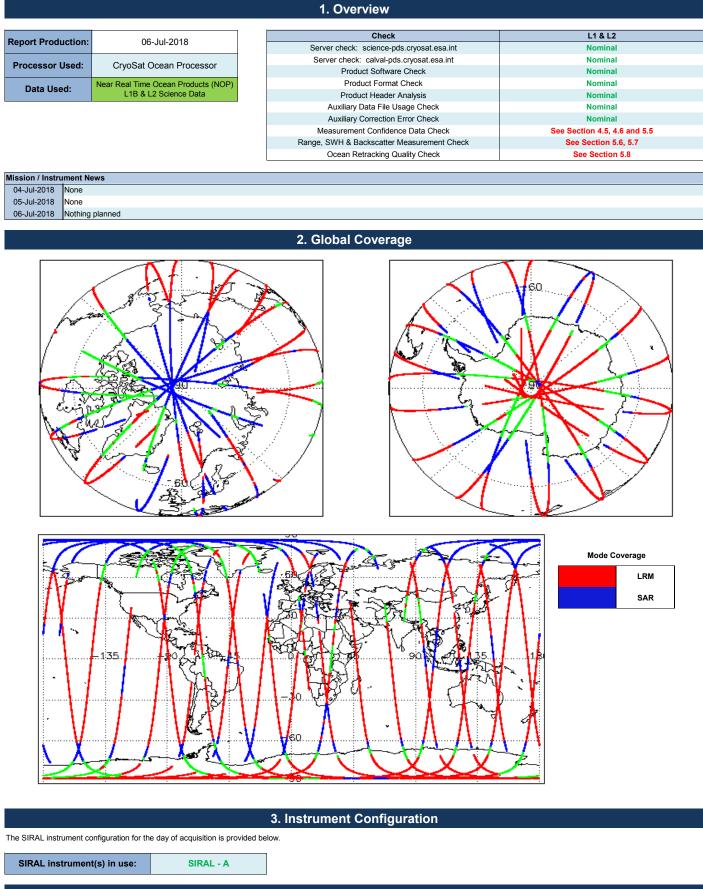


# IDEAS+ Daily Report for NOP data:

# 05/07/2018





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).

0

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 pre-	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement recor-	d. The bit value of this flag indicates	s 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 measurem		-
Attitude Correction Missing: This flag is currently set in error for NOPR prod Number of products with errors: 1	fucts due to a configuration issue. The	his is being investigated and will be updated in the next SW update.
•		
Product CS_OFFL_SIR_NOPM1B_20180705T051719_20180705T051731_C001	Power scaling error	Description There is an error in the scaling of the L1B waveform for one or more
CS_011E_SIK_NOPINIB_201001031031119_201001031031131_C001	Power scaling error	records
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record	d. The bit value of this flag 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: 14		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20180705T005129_20180705T011235_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180705T021622_20180705T021942_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180705T041606_20180705T043043_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180705T050437_20180705T051610_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180705T150350_20180705T151814_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180705T020255_20180705T020338_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180705T020416_20180705T020659_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180705T034635_20180705T034738_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180705T044533_20180705T044654_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180705T052429_20180705T052639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180705T112001_20180705T112336_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180705T121321_20180705T121535_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180705T124613_20180705T124921_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180705T125858_20180705T130220_C001	Loss of Echo	The tracking echo is missing for one or more records
5. N	OP Level 2 Data Qua	lity Check
5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML be	eader file ( HDR) and a binary product file ( DRI )
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	d SPH in order to identify any incons	sistencies 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	e-determined baseline and also to c	theck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
5.4 L2 Auxiliary Correction Error Check	ecked for the default error value (32	767)
For all products, the auxiliary corrections within the Geophysical Group are che		
5.4 L2 Auxiliary Correction Error Check         For all products, the auxiliary corrections within the Geophysical Group are che         Number of products with errors:       0         5.5 L2 Measurement Confidence Data Check		
For all products, the auxiliary corrections within the Geophysical Group are che Number of products with errors: 0 5.5 L2 Measurement Confidence Data Check		nis flag indicates any problems when set.
For all products, the auxiliary corrections within the Geophysical Group are che 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 mea		is flag indicates any problems when set.
For all products, the auxiliary corrections within the Geophysical Group are che Number of products with errors: 0		his flag indicates any problems when set.

## 5.6 L2 Range Measurement Check

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

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

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

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

Product CS\_OFFL\_SIR\_NOPM\_2\_20180704T235706\_20180705T000657\_C001 CS OFFL SIR NOPM 2 20180705T002310 20180705T002701 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T003758\_20180705T004843\_C001 CS OFFL SIR NOPM 2 20180705T005129 20180705T011235 C001 CS OFFL SIR NOPM 2 20180705T011903 20180705T012037 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T012044\_20180705T012454\_C001 CS OFFL SIR NOPM 2 20180705T012933 20180705T014908 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T015003\_20180705T015423\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T021622\_20180705T021942\_C001 CS OFFL SIR NOPM 2 20180705T021944 20180705T025145 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T025409\_20180705T025936\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T031041\_20180705T032310\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T032356\_20180705T034050\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T034506\_20180705T034635\_C001 CS OFFL SIR NOPM 2 20180705T040235 20180705T041403 C001 CS OFFL SIR NOPM 2 20180705T041606 20180705T043043 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T043336\_20180705T043832\_C001 CS OFFL SIR NOPM 2 20180705T043911 20180705T044032 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T044732\_20180705T045956\_C001 CS OFFL SIR NOPM 2 20180705T050437 20180705T051610 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T055528\_20180705T060953\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T061302\_20180705T061746\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T062535\_20180705T065107\_C001 CS OFFL SIR NOPM 2 20180705T103058 20180705T103359 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T110303\_20180705T110425\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T111116\_20180705T111645\_C001 CS OFFL SIR NOPM 2 20180705T112336 20180705T115826 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T120932\_20180705T121116\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T122858\_20180705T124613\_C001 CS OFFL SIR NOPM 2 20180705T125036 20180705T125541 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T130220\_20180705T133829\_C001 CS OFFL SIR NOPM 2 20180705T140036 20180705T142316 C001 CS OFFL SIR NOPM 2 20180705T143253 20180705T143445 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T144219\_20180705T145014\_C001 CS OFFL SIR NOPM 2 20180705T145017 20180705T145908 C001 CS OFFL SIR NOPM 2 20180705T150350 20180705T151814 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T152655\_20180705T152927\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T153116\_20180705T154805\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T155005\_20180705T160425\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T161150\_20180705T161356\_C001 CS OFFL SIR NOPM 2 20180705T161451 20180705T161858 C001 CS OFFL SIR NOPM 2 20180705T162110 20180705T163614 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T163815\_20180705T164738\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T170551\_20180705T170643\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T171435\_20180705T172702\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T173229\_20180705T174512\_C001 CS OFFL SIR NOPM 2 20180705T174947 20180705T175800 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T180037\_20180705T181619\_C001 CS OFFL SIR NOPM 2 20180705T182015 20180705T182453 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T185900\_20180705T192507\_C001 CS OFFL SIR NOPM 2 20180705T192836 20180705T193039 C001

Test Failed Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status 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 Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status

Description 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 ecords 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 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 ecords 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 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 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 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 ecords 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 ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords 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 ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records

CS_OFFL_SIR_NOPM_2_20180705T193118_20180705T193634_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T194040_20180705T200429_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T203616_20180705T204743_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T205321_20180705T210350_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T211043_20180705T211648_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T211913_20180705T214734_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T220959_20180705T224230_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T224952_20180705T225519_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T225828_20180705T230311_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T233403_20180705T233656_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T234853_20180705T235755_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180705T192718_20180705T192729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180705T102857_20180705T103058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180705T153046_20180705T153116_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. 65

#### Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR NOPM 2 20180704T235706 20180705T000657 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR NOPM 2 20180705T002310 20180705T002701 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR NOPM 2 20180705T003758 20180705T004843 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR NOPM 2 20180705T005129 20180705T011235 C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180705T011903_20180705T012037_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180705T012044_20180705T012454_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T012933_20180705T014908_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_20180705T015003_20180705T015423_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_20180705T021622_20180705T021942_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_20180705T021944_20180705T025145_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_20180705T025409_20180705T025936_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T031041_20180705T032310_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_20180705T032356_20180705T034050_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_20180705T034506_20180705T034635_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T040235_20180705T041403_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_20180705T041606_20180705T043043_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_20180705T043336_20180705T043832_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T043853_20180705T043904_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T043911_20180705T044032_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T044732_20180705T045956_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_20180705T050437_20180705T051610_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_20180705T055528_20180705T060953_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_20180705T061302_20180705T061746_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T062535_20180705T065107_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_20180705T103058_20180705T103359_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_20180705T110303_20180705T110425_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_20180705T111116_20180705T111645_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180705T112336_20180705T115826_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_20180705T120932_20180705T121116_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\_20180705T122858\_20180705T124613\_C001 CS OFFL SIR NOPM 2 20180705T125036 20180705T125541 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T130220\_20180705T133829\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T140036\_20180705T142316\_C001 CS OFFL SIR NOPM 2 20180705T143253 20180705T143445 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T144219\_20180705T145014\_C001 CS OFFL SIR NOPM 2 20180705T145017 20180705T145908 C001 CS OFFL SIR NOPM 2 20180705T150350 20180705T151814 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T152655\_20180705T152927\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T153116\_20180705T154805\_C001 CS OFFL SIR NOPM 2 20180705T155005 20180705T160425 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T161150\_20180705T161356\_C001 CS OFFL SIR NOPM 2 20180705T162110 20180705T163614 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T163815\_20180705T164738\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T170551\_20180705T170643\_C001 CS OFFL SIR NOPM 2 20180705T171435 20180705T172702 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T173229\_20180705T174512\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T174947\_20180705T175800\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T180037\_20180705T181619\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T182015\_20180705T182453\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T185900\_20180705T192507\_C001 CS OFFL SIR NOPM 2 20180705T192836 20180705T193039 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T193118\_20180705T193634\_C001 CS OFFL SIR NOPM 2 20180705T194040 20180705T200429 C001 CS OFFL SIR NOPM 2 20180705T203616 20180705T204743 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T205321\_20180705T210350\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T211043\_20180705T211648\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T211913\_20180705T214734\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T220959\_20180705T224230\_C001 CS OFFL SIR NOPM 2 20180705T224952 20180705T225519 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T225828\_20180705T230311\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180705T233403\_20180705T233656\_C001 CS OFFL SIR NOPM 2 20180705T234853 20180705T235755 C001 CS\_OFFL\_SIR\_NOPN\_2\_20180705T192718\_20180705T192729\_C001 CS\_OFFL\_SIR\_NOPR\_2\_20180705T102857\_20180705T103058\_C001 CS\_OFFL\_SIR\_NOPR\_2\_20180705T153046\_20180705T153116\_C001

SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status

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### 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:

45