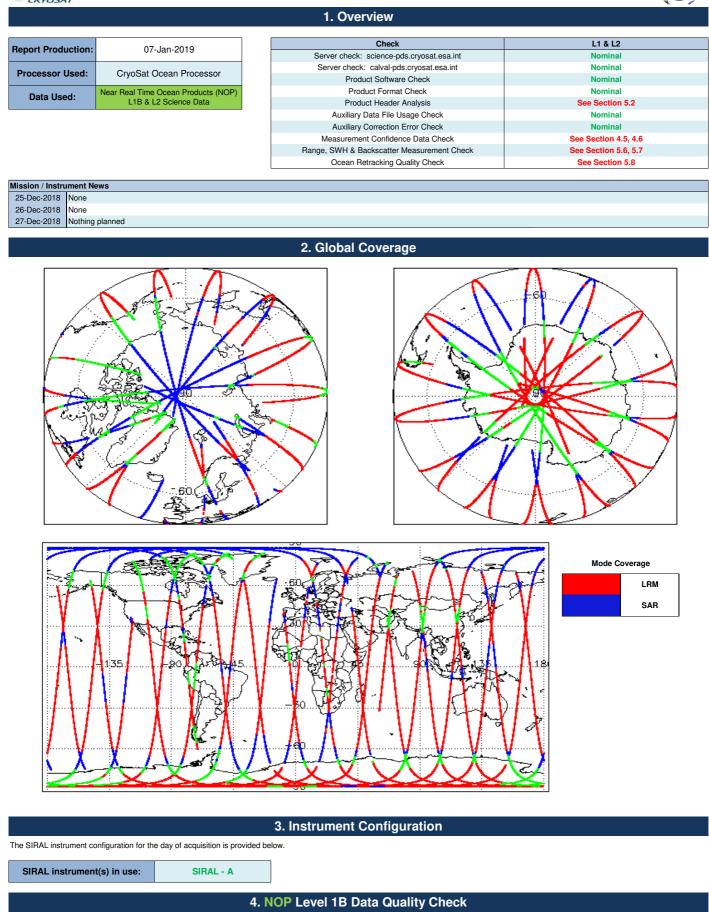


# IDEAS+ Daily Report for NOP data:

## 26/12/2018





### 4.1 L1B Product Format Check

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

Number of products with errors:

#### 4.2 L1B Product Header Analysis

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

0

Each product is checked for missing Data Set Descriptors with respect to a provide the products with errors: 0	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
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 indicate	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	ment record. The bit value of this fla	g indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for NOPR prod	ducts due to a configuration issue.	his is being investigated and will be updated in the next SW update.
Number of products with errors: 0		
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record	d. The bit value of this flag indicate	s any problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	-	
Number of products with errors: 11		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20181226T003340_20181226T005849_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20181226T063401_20181226T064238_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20181226T083008_20181226T083023_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20181226T101413_20181226T101920_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20181226T110639_20181226T110918_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20181226T200358_20181226T200613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20181226T210712_20181226T211023_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20181226T231701_20181226T232306_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20181226T050546_20181226T050630_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20181226T052152_20181226T053039_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20181226T192218_20181226T192807_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	ensure it consists of both an XML I	eader 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	d SPH in order to identify any incor	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	e-determined baseline and also to	sheck the validity of Auxiliary Data Files is correct.
5.3 L2 Auxiliary Data File Usage Check	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
5.3 L2 Auxiliary Data File Usage Check   Each product is checked for missing Data Set Descriptors with respect to a pro   Number of products with errors: 0	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
5.3 L2 Auxiliary Data File Usage Check   Each product is checked for missing Data Set Descriptors with respect to a pronumber of products with errors:   0	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.
5.3 L2 Auxiliary Data File Usage Check   Each product is checked for missing Data Set Descriptors with respect to a pre   Number of products with errors: 0   5.4 L2 Auxiliary Correction Error Check		
5.3 L2 Auxiliary Data File Usage Check Each product is checked for missing Data Set Descriptors with respect to a pro		
5.3 L2 Auxiliary Data File Usage Check   Each product is checked for missing Data Set Descriptors with respect to a pronout of products with errors:   0   5.4 L2 Auxiliary Correction Error Check   For all products, the auxiliary corrections within the Geophysical Group are checked		
5.3 L2 Auxiliary Data File Usage Check   Each product is checked for missing Data Set Descriptors with respect to a pronout of products with errors:   0   5.4 L2 Auxiliary Correction Error Check   For all products, the auxiliary corrections within the Geophysical Group are check   Number of products with errors: 0	ecked for the default error value (3;	767).
5.3 L2 Auxiliary Data File Usage Check   Each product is checked for missing Data Set Descriptors with respect to a pre   Number of products with errors: 0   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	ecked for the default error value (3;	767).

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. 81

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20181226T003340_20181226T005849_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T010135_20181226T010628_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T011449_20181226T012444_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T013017_20181226T014806_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T020034_20181226T020239_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T023319_20181226T023442_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20181226T024132\_20181226T024658\_C001 CS\_OFFL\_SIB\_NOPM\_2\_20181226T025334\_20181226T031536\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T031745\_20181226T032709\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T033934\_20181226T034218\_C001 CS OFFL SIR NOPM 2 20181226T035903 20181226T041600 C001 CS OFFL SIR NOPM 2 20181226T042055 20181226T042555 C001 CS OFFL SIR NOPM 2 20181226T043223 20181226T050546 C001 CS OFFL SIR NOPM 2 20181226T053039 20181226T055333 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T061211\_20181226T062718\_C001 CS OFFL SIR NOPM 2 20181226T062722 20181226T062920 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T063401\_20181226T064238\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T070136\_20181226T071805\_C001 CS OFFL SIR NOPM 2 20181226T072019 20181226T073453 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T074202\_20181226T074411\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T074500\_20181226T074913\_C001 CS OFFL SIR NOPM 2 20181226T075104 20181226T080624 C001 CS OFFL SIR NOPM 2 20181226T080824 20181226T080841 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T080844\_20181226T081746\_C001 CS\_OFFL\_SIB\_NOPM\_2\_20181226T084513\_20181226T085549\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T090229\_20181226T091631\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T091956\_20181226T092814\_C001 CS OFFL SIR NOPM 2 20181226T093052 20181226T094712 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T094942\_20181226T095154\_C001 CS OFFL SIR NOPM 2 20181226T102915 20181226T105535 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T105851\_20181226T110051\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T110134\_20181226T110639\_C001 CS OFFL SIR NOPM\_2\_20181226T111002\_20181226T113455\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T120655\_20181226T121800\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T122338\_20181226T123332\_C001 CS OFFL SIR NOPM 2 20181226T124058 20181226T124659 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T124917\_20181226T131723\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T132450\_20181226T132654\_C001 CS OFFL SIR NOPM 2 20181226T134001 20181226T141303 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T142006\_20181226T142529\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T142904\_20181226T143322\_C001 CS OFFL SIR NOPM 2 20181226T150341 20181226T150719 C001 CS OFFL SIR NOPM 2 20181226T151926 20181226T152810 C001 CS OFFL SIR NOPM 2 20181226T153055 20181226T155248 C001 CS OFFL SIR NOPM 2 20181226T160013 20181226T160421 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T160907\_20181226T162003\_C001 CS OFFL SIR NOPM 2 20181226T162112 20181226T162555 C001 CS OFFL SIR NOPM 2 20181226T165757 20181226T173122 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T173412\_20181226T173906\_C001 CS OFFL SIR NOPM 2 20181226T173927 20181226T174254 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T175006\_20181226T182136\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T184019\_20181226T184849\_C001 CS OFFL SIR NOPM 2 20181226T185330 20181226T191058 C001 CS OFFL SIR NOPM 2 20181226T191252 20181226T191805 C001 CS OFFL SIR NOPM 2 20181226T191841 20181226T192014 C001 CS OFFL SIR NOPM 2 20181226T192807 20181226T194144 C001 CS OFFL SIR NOPM 2 20181226T194358 20181226T195732 C001

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

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 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 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 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 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 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 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 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 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 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 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 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 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 ecords The Ocean Range Averaging Status Flag has been set for one or more

CS_OFFL_SIR_NOPM_2_20181226T195925_20181226T195935_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T202329_20181226T203349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T203529_20181226T204937_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T205215_20181226T205715_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T205754_20181226T205855_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T210549_20181226T210711_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T211023_20181226T211901_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T212248_20181226T212736_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T220628_20181226T222853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T223248_20181226T223632_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T223639_20181226T223647_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T224311_20181226T231055_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T234314_20181227T000807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181226T010628_20181226T010634_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181226T073542_20181226T073718_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181226T074411_20181226T074459_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181226T183247_20181226T183251_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181226T200358_20181226T200613_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181226T075048_20181226T075104_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181226T121800_20181226T122337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181226T132655_20181226T133634_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181226T173920_20181226T173927_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181226T192218_20181226T192807_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181226T214444_20181226T215005_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. 79

#### Number of products with errors:

Dr

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20181226T003340_20181226T005849_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_20181226T010135_20181226T010628_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T011449_20181226T012444_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_20181226T013017_20181226T014806_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_20181226T023319_20181226T023442_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_20181226T024132_20181226T024658_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T025334_20181226T031536_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_20181226T031745_20181226T032709_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_20181226T033934_20181226T034218_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_20181226T035903_20181226T041600_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_20181226T042055_20181226T042555_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181226T043223_20181226T050546_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_20181226T053039_20181226T055333_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_20181226T061211_20181226T062718_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_20181226T062722_20181226T062920_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_20181226T063401_20181226T064238_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_20181226T070136_20181226T071805_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_20181226T072019_20181226T073453_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_20181226T074202_20181226T074411_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20181226T074500\_20181226T074913\_C001 CS OFFL SIR NOPM\_2\_20181226T075104\_20181226T080624\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T080824\_20181226T080841\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T080844\_20181226T081746\_C001 CS OFFL SIR NOPM 2 20181226T084513 20181226T085549 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T090229\_20181226T091631\_C001 CS OFFL SIR NOPM 2 20181226T091956 20181226T092814 C001 CS OFFL SIR NOPM 2 20181226T093052 20181226T094712 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T094942\_20181226T095154\_C001 CS OFFL SIR NOPM 2 20181226T102915 20181226T105535 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T105851\_20181226T110051\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T110134\_20181226T110639\_C001 CS\_OFFL\_SIB\_NOPM\_2\_20181226T111002\_20181226T113455\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T120655\_20181226T121800\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T122338\_20181226T123332\_C001 CS OFFL SIR NOPM 2 20181226T124058 20181226T124659 C001 CS OFFL SIR NOPM 2 20181226T124917 20181226T131723 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T132450\_20181226T132654\_C001 CS\_OFFL\_SIB\_NOPM\_2\_20181226T134001\_20181226T141303\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T142006\_20181226T142529\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T142904\_20181226T143322\_C001 CS OFFL SIR NOPM 2 20181226T150341 20181226T150719 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T151926\_20181226T152810\_C001 CS OFFL SIR NOPM 2 20181226T153055 20181226T155248 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T155902\_20181226T160009\_C001 CS OFFL SIR NOPM 2 20181226T160013 20181226T160421 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T160907\_20181226T162003\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T162112\_20181226T162555\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T165757\_20181226T173122\_C001 CS OFFL SIR NOPM 2 20181226T173412 20181226T173906 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T173927\_20181226T174254\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T175006\_20181226T182136\_C001 CS OFFL SIR NOPM 2 20181226T184019 20181226T184849 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T185330\_20181226T191058\_C001 CS OFFL SIR NOPM 2 20181226T191252 20181226T191805 C001 CS OFFL SIR NOPM 2 20181226T191841 20181226T192014 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T192807\_20181226T194144\_C001 CS OFFL SIR NOPM 2 20181226T194358 20181226T195732 C001 CS OFFL SIR NOPM 2 20181226T195925 20181226T195935 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T202329\_20181226T203349\_C001 CS OFFL SIR NOPM 2 20181226T203529 20181226T204937 C001 CS OFFL SIR NOPM 2 20181226T205215 20181226T205715 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T211023\_20181226T211901\_C001 CS OFFL SIR NOPM 2 20181226T212248 20181226T212736 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T220628\_20181226T222853\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T223248\_20181226T223632\_C001 CS OFFL SIR NOPM 2 20181226T223639 20181226T223647 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181226T224311\_20181226T231055\_C001 CS OFFL SIR NOPM 2 20181226T234314 20181227T000807 C001 CS OFFL SIR NOPN 2 20181226T010628 20181226T010634 C001 CS\_OFFL\_SIR\_NOPN\_2\_20181226T073542\_20181226T073718\_C001

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

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

SWH Averaging Status Backscatter Averaging Status Ice Backscatter Averaging Status

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

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

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Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status

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

Ice Backscatter Averaging Status

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

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

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

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

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

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

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

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

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

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

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

more records.

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

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

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

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

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

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

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

CS_OFFL_SIR_NOPN_2_20181226T074411_20181226T074459_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181226T183247_20181226T183251_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_NOPN_2_20181226T200358_20181226T200613_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_NOPR_2_20181226T075048_20181226T075104_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_NOPR_2_20181226T121800_20181226T122337_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_NOPR_2_20181226T132655_20181226T133634_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_NOPR_2_20181226T173920_20181226T173927_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181226T192218_20181226T192807_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_NOPR_2_20181226T214444_20181226T215005_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

### 5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz 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. 50

Number of products with errors: