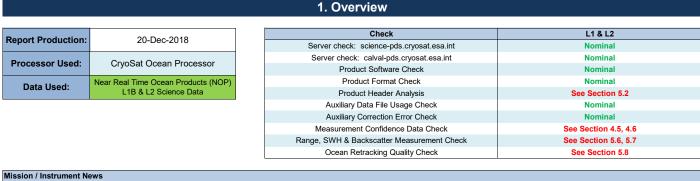
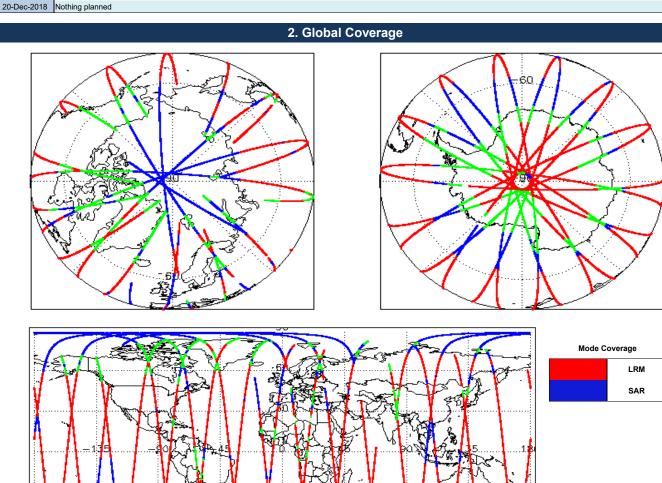


# IDEAS+ Daily Report for NOP data:

# <u>19/12/2018</u>



# 18-Dec-2018 None 19-Dec-2018 None



# 3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

4. 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).

30

60

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

Each product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to	check the validity of Auxiliary Data Files is correct.			
Number of products with errors:     0       4.4 L1B Auxiliary Correction Error Check					
Number of products with errors: 0					
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag for each measurem	ant record. The hit value of this f	ag 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: 10					
Number of products with errors: 10					
	Test Failed	Description			
Product	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records			
Number of products with errors:         10           Product         0           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001         0           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001         0		· · ·			
Product CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001 CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001	Loss of Echo	The tracking echo is missing for one or more records			
Product CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001 CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001 CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T093323_20181219T093530_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T093323_20181219T093530_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T093323_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T093323_20181219T093530_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T141717_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T1093323_20181219T093530_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001           CS_OFFL_SIR_NOPN1B_20181219T141539_20181219T141717_C001           CS_OFFL_SIR_NOPR1B_20181219T141539_20181219T1417751_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T194427_C001           CS_OFFL_SIR_NOPM1B_20181219T093332_20181219T093530_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001           CS_OFFL_SIR_NOPR1B_20181219T141539_20181219T141717_C001           CS_OFFL_SIR_NOPR1B_20181219T173141_20181219T173751_C001           CS_OFFL_SIR_NOPR1B_20181219T205701_20181219T205829_C001           CS_OFFL_SIR_NOPR1B_20181219T224235_20181219T224747_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T093323_20181219T093530_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001           CS_OFFL_SIR_NOPR1B_20181219T141539_20181219T141717_C001           CS_OFFL_SIR_NOPR1B_20181219T173141_20181219T173751_C001           CS_OFFL_SIR_NOPR1B_20181219T205701_20181219T205829_C001           CS_OFFL_SIR_NOPR1B_20181219T224235_20181219T224747_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T194427_C001           CS_OFFL_SIR_NOPM1B_20181219T093332_20181219T093530_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001           CS_OFFL_SIR_NOPN1B_20181219T141539_20181219T141717_C001           CS_OFFL_SIR_NOPR1B_20181219T173141_20181219T173751_C001           CS_OFFL_SIR_NOPR1B_20181219T205701_20181219T205829_C001           CS_OFFL_SIR_NOPR1B_20181219T224235_20181219T224747_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product           CS_OFFL_SIR_NOPM1B_20181219T071004_20181219T073845_C001           CS_OFFL_SIR_NOPM1B_20181219T094230_20181219T094940_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T123522_C001           CS_OFFL_SIR_NOPM1B_20181219T120802_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T153437_20181219T154427_C001           CS_OFFL_SIR_NOPM1B_20181219T093323_20181219T093530_C001           CS_OFFL_SIR_NOPN1B_20181219T192408_20181219T192510_C001           CS_OFFL_SIR_NOPR1B_20181219T141539_20181219T141717_C001           CS_OFFL_SIR_NOPR1B_20181219T173141_20181219T173751_C001           CS_OFFL_SIR_NOPR1B_20181219T205701_20181219T205829_C001           CS_OFFL_SIR_NOPR1B_20181219T224235_20181219T224747_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for			

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. 0

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

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:

# 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. 78

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20181218T235315_20181219T001757_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T002009_20181219T002535_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T002541_20181219T002906_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T003255_20181219T004334_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T004911_20181219T010500_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T012814_20181219T014932_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20181219T015201\_20181219T015648\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T020010\_20181219T020813\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T021250\_20181219T024525\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T025845\_20181219T025949\_C001 CS OFFL SIR NOPM 2 20181219T032023 20181219T032824 C001 CS OFFL SIR NOPM 2 20181219T032835 20181219T033505 C001 CS OFFL SIR NOPM 2 20181219T033946 20181219T034501 C001 CS OFFL SIR NOPM 2 20181219T035134 20181219T041311 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T041557\_20181219T042537\_C001 CS OFFL SIR NOPM 2 20181219T043654 20181219T043749 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T043833\_20181219T044134\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T045611\_20181219T050207\_C001 CS OFFL SIR NOPM 2 20181219T050355 20181219T051421 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T053054\_20181219T060414\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T062013\_20181219T062705\_C001 CS OFFL SIR NOPM 2 20181219T062718 20181219T065139 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T070527\_20181219T070801\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T071004\_20181219T073845\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T075506\_20181219T075902\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T080028\_20181219T081614\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T082234\_20181219T083336\_C001 CS OFFL SIR NOPM 2 20181219T083953 20181219T084225 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T084248\_20181219T084713\_C001 CS OFFL SIR NOPM 2 20181219T084935 20181219T090357 C001 CS OFFL SIR NOPM 2 20181219T094230 20181219T094940 C001 CS OFFL SIR NOPM 2 20181219T095104 20181219T101444 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T101736\_20181219T102628\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T102847\_20181219T105236\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T111938\_20181219T115317\_C001 CS OFFL SIR NOPM 2 20181219T115953 20181219T120417 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T120802\_20181219T123522\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T130122\_20181219T131609\_C001 CS OFFL SIR NOPM 2 20181219T132144 20181219T133140 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T133907\_20181219T134455\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T134735\_20181219T140607\_C001 CS OFFL SIR NOPM 2 20181219T142402 20181219T142454 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T143735\_20181219T151127\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T151813\_20181219T152326\_C001 CS OFFL SIR NOPM 2 20181219T152754 20181219T152810 C001 CS OFFL SIR NOPM 2 20181219T153011 20181219T153401 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T153437\_20181219T154427\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T160041\_20181219T160320\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T161653\_20181219T162619\_C001 CS OFFL SIR NOPM 2 20181219T162905 20181219T165037 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T165644\_20181219T165813\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T165820\_20181219T170229\_C001 CS OFFL SIR NOPM 2 20181219T170706 20181219T171735 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T171851\_20181219T172639\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T172735\_20181219T173141\_C001 CS OFFL SIR NOPM 2 20181219T182123 20181219T182953 C001 CS OFFL SIR NOPM 2 20181219T183144 20181219T183711 C001

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

The Ocean Range Averaging Status Flag has been set for one or more reco 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 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 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 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 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 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 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 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 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 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_20181219T183731_20181219T184000_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T184813_20181219T190042_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T190115_20181219T191832_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T194003_20181219T195138_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T195342_20181219T200851_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T201111_20181219T201608_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T202512_20181219T203604_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T204208_20181219T205404_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T213305_20181219T214800_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T215034_20181219T215521_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T215527_20181219T215538_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T215601_20181219T215711_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T220211_20181219T222537_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T222547_20181219T222849_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181219T191832_20181219T192001_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20181219T215539_20181219T215544_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181219T001758_20181219T001854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181219T004334_20181219T004911_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181219T183712_20181219T183717_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181219T200851_20181219T200929_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20181219T201623_20181219T201628_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.

#### 5.7 L2 SWH and Backscatter Measurement Check

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

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

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

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

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 75

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20181218T235315_20181219T001757_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_20181219T002009_20181219T002535_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T002541_20181219T002906_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T003255_20181219T004334_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_20181219T004911_20181219T010500_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_20181219T012814_20181219T014932_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_20181219T015201_20181219T015648_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_20181219T020010_20181219T020813_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T021250_20181219T024525_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_20181219T025845_20181219T025949_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_20181219T032023_20181219T032824_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_20181219T032835_20181219T033505_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_20181219T033946_20181219T034501_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20181219T035134_20181219T041311_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_20181219T041557_20181219T042537_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_20181219T043654_20181219T043749_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_20181219T045611_20181219T050207_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_20181219T050355_20181219T051421_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_20181219T053054_20181219T060414_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_20181219T062013_20181219T062705_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_20181219T062718_20181219T065139_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_20181219T070114_20181219T070308_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20181219T070527\_20181219T070801\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T071004\_20181219T073845\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T075506\_20181219T075902\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T080028\_20181219T081614\_C001 CS OFFL SIR NOPM 2 20181219T082234 20181219T083336 C001 CS OFFL SIR NOPM 2 20181219T083953 20181219T084225 C001 CS OFFL SIR NOPM 2 20181219T084248 20181219T084713 C001 CS OFFL SIR NOPM 2 20181219T084935 20181219T090357 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T094230\_20181219T094940\_C001 CS OFFL SIR NOPM 2 20181219T095104 20181219T101444 C001 CS OFFL SIR NOPM 2 20181219T101736 20181219T102628 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T102847\_20181219T105236\_C001 CS OFFL SIR NOPM 2 20181219T111938 20181219T115317 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T115953\_20181219T120417\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T120802\_20181219T123522\_C001 CS OFFL SIR NOPM 2 20181219T130122 20181219T131609 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T132144\_20181219T133140\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T133907\_20181219T134455\_C001 CS OFFL SIR NOPM 2 20181219T134735 20181219T140607 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T142402\_20181219T142454\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T143735\_20181219T151127\_C001 CS OFFL SIR NOPM 2 20181219T151813 20181219T152326 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T153011\_20181219T153401\_C001 CS OFFL SIR NOPM 2 20181219T153437 20181219T154427 C001 CS OFFL SIR NOPM 2 20181219T160041 20181219T160320 C001 CS OFFL SIR NOPM 2 20181219T161653 20181219T162619 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T162905\_20181219T165037\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T165644\_20181219T165813\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T165820\_20181219T170229\_C001 CS OFFL SIR NOPM 2 20181219T170706 20181219T171735 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T171851\_20181219T172639\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T172735\_20181219T173141\_C001 CS OFFL SIR NOPM\_2\_20181219T182123\_20181219T182953\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T183144\_20181219T183711\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T184813\_20181219T190042\_C001 CS OFFL SIR NOPM 2 20181219T190115 20181219T191832 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T194003\_20181219T195138\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T195342\_20181219T200851\_C001 CS OFFL SIR NOPM 2 20181219T201111 20181219T201608 C001 CS OFFL SIR NOPM 2 20181219T202512 20181219T203604 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T204208\_20181219T205404\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T213305\_20181219T214800\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T215034\_20181219T215521\_C001 CS OFFL SIR NOPM 2 20181219T215601 20181219T215711 C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T220211\_20181219T222537\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20181219T222547\_20181219T222849\_C001 CS OFFL SIR NOPN 2 20181219T191832 20181219T192001 C001 CS\_OFFL\_SIR\_NOPN\_2\_20181219T215539\_20181219T215544\_C001 CS\_OFFL\_SIR\_NOPR\_2\_20181219T001758\_20181219T001854\_C001 CS OFFL SIR NOPR 2 20181219T004334 20181219T004911 C001 CS\_OFFL\_SIR\_NOPR\_2\_20181219T183712\_20181219T183717\_C001

Ice Backscatter Averaging Status record SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status more records SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status records Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, 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 SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice 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 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 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 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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

The 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 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.

CS\_OFFL\_SIR\_NOPR\_2\_20181219T201623\_20181219T201628\_C001

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

# 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.

53

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: