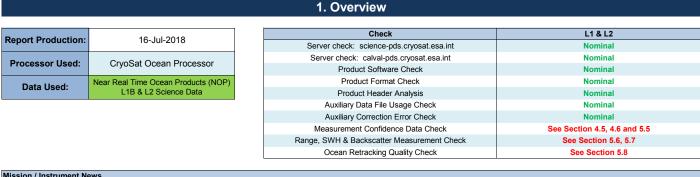
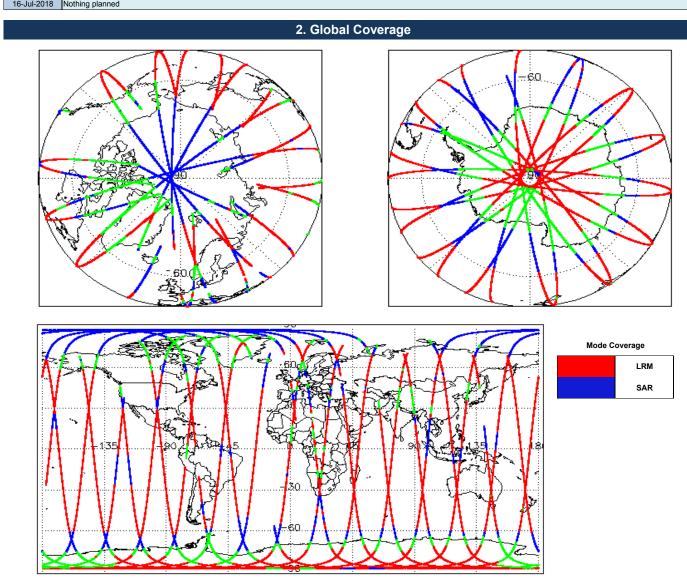


# IDEAS+ Daily Report for NOP data:

# <u>15/07/2018</u>



wission / manument wews		
14-Jul-2018	None	
15-Jul-2018	None	
16 101 2019	Nothing planner	



## 3. Instrument Configuration

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

SIRAL instrument(s) in use:

se: SIRAL - A

0

4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Number of products with errors:

### 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-determined baseline and also to check the validity of Auxiliary Data Files is correct.			
Number of products with errors: 0			
4.4 L1B Auxiliary Correction Error Check			
CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates 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 measurement record. The bit value of this flag indicates any problems when set.			
Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.			
Number of products with errors: 3			
Product	Test Failed	Description	
CS_OFFL_SIR_NOPM1B_20180715T000609_20180715T000730_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records	
CS_OFFL_SIR_NOPM1B_20180715T045233_20180715T050530_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records	
CS OFFL SIR NOPM1B 20180715T102510 20180715T102605 C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records	

### 4.6 L1B Waveform Group Data Check

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

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

Number of	products with errors:	13

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20180715T045233_20180715T050530_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T015507_20180715T015625_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T032951_20180715T033349_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T043410_20180715T043438_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T051206_20180715T051333_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T051340_20180715T051427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T115559_20180715T115652_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T151324_20180715T151444_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T151749_20180715T152013_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T165650_20180715T165900_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T183157_20180715T183649_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180715T215543_20180715T215722_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180715T050732_20180715T050913_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check		
Each product, retrieved and unpacked from the science server, is checked to a Number of products with errors: 0	ensure it consists of both an XML h	eader file (.HDR) and a binary product file (.DBL).
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 incon	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 pro-	e-determined baseline and also to c	heck the validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
5.4 L2 Auxiliary Correction Error Check		
For all products, the auxiliary corrections within the Geophysical Group are ch	ecked for the default error value (32	
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	surement record. The bit value of th	is flag indicates any problems when set.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180715T000609_20180715T000730_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T050530_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20180715T102510_20180715T102605_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

## 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. 75

Number of products with errors:

CS_OFFL_SIR_NOPM_2_20180715T001427_20180715T001449_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T002510_20180715T0005539_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T005550_20180715T010025_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T01837_20180715T011252_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T01500355_20180715T0115507_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T020355_20180715T021934_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T022517_20180715T022514_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T022517_20180715T023938_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T024208_20180715T024729_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T024748_20180715T039923_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T032951_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T04204_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T042640_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T043638_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T043633_20180715T043658_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T043633_20180715T0436533_C001         Ice <tr< th=""><th>ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status ean Range Averaging Status</th><th>The Ocean Range Averaging Status Flag has been set for one or more records. 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CS_OFFL_SIR_NOPM_2_20180715T005550_20180715T010025_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T010837_20180715T011252_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T01500355_20180715T015507_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T020355_20180715T021934_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T022245_20180715T022514_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T022245_20180715T023938_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T024208_20180715T024729_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T024748_20180715T030923_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T032951_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T042640_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042658_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T043838_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T045253_20180715T043658_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T045253_20180715T060557_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T060	ean Range Averaging Status ean Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status ean Range Averaging Status ea	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 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 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 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 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 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 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 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 Ice Range Averaging Status Flag ha
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CS_OFFL_SIR_NOPM_2_20180715T022517_20180715T023938_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T024208_20180715T024729_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T024748_20180715T025000_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T025840_20180715T030923_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T030923_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T032951_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T035157_20180715T040204_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T042133_20180715T042629_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042640_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T055733_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T060557_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T063909_C001       Oce	ean Range Averaging Status ean Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status Range Averaging Status Range Averaging Status ean Range Averaging Status	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 Ocean Range Averaging Status 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 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 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 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 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 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 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.
CS_OFFL_SIR_NOPM_2_20180715T024208_20180715T024729_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T024748_20180715T025000_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T025840_20180715T030923_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T032951_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T040204_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T040406_20180715T041837_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T042133_20180715T042629_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042648_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042648_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T043633_20180715T043838_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T043838_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T055733_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T060512_20180715T060557_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T061321_20180715T063909_C001       Oce	Range Averaging Status         Range Averaging Status         Range Averaging Status         ean Range Averaging Status         ean Range Averaging Status	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 Ocean Range Averaging Status 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 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 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 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 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 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 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 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 Avera
CS_OFFL_SIR_NOPM_2_20180715T024748_20180715T025000_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T025840_20180715T030923_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T030923_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T032951_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T035157_20180715T040204_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T040406_20180715T041837_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042629_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042643_20180715T042640_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042640_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T043633_20180715T043838_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T05530_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T055733_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T0605112_20180715T060557_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001       Ice I         CS_OFFL_SIR_NOPM_2_20180715T061321_20180715T063909_C001       Oce	Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status Range Averaging Status ean 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 records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more 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 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.
CS_OFFL_SIR_NOPM_2_20180715T025840_20180715T030923_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T032951_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T040204_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T040406_20180715T041837_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T042133_20180715T042629_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042658_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T050530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T050530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T0505112_20180715T060557_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060512_20180715T060597_C001         Ice	Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more 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 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.
CS_OFFL_SIR_NOPM_2_20180715T031243_20180715T032951_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T035157_20180715T040204_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T040406_20180715T041837_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T042133_20180715T042629_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042658_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T050530_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T055733_C001       Oce         CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001       Ice         CS_OFFL_SIR_NOPM_2_20180715T061321_20180715T063909_C001       Oce	ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status	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 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 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
CS_OFFL_SIR_NOPM_2_20180715T035157_20180715T040204_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T040406_20180715T041837_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T042133_20180715T042629_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042658_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T043838_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T05530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T050530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T060557_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060575_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060570_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060512_20180715T060570_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060512_20180715T060738_C001         Ice	ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status	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 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.
CS_OFFL_SIR_NOPM_2_20180715T040406_20180715T041837_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T042133_20180715T042629_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042658_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043658_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T055530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T055733_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T061321_20180715T063909_C001         Oce	ean Range Averaging Status ean Range Averaging Status Range Averaging Status Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The loc Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180715T042133_20180715T042629_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042658_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T043633_20180715T042658_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T05530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T055733_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T06618_20180715T060738_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T061321_20180715T063909_C001         Oce	Range Averaging Status Range Averaging Status Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status	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 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.
CS_OFFL_SIR_NOPM_2_20180715T042633_20180715T042640_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T042647_20180715T042658_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T050530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T055733_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001         Ice I           CS_OFFL_SIR_NOPM_2_20180715T061321_20180715T063909_C001         Oce	Range Averaging Status Range Averaging Status ean Range Averaging Status ean Range Averaging Status ean Range Averaging Status	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
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CS_OFFL_SIR_NOPM_2_20180715T043532_20180715T043838_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T050530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T055733_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T0601321_20180715T063909_C001         Ice	ean Range Averaging Status ean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180715T045233_20180715T050530_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T054250_20180715T055733_C001         Oce           CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001         Ice           CS_OFFL_SIR_NOPM_2_20180715T06061321_20180715T060738_C001         Ice	ean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
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CS_OFFL_SIR_NOPM_2_20180715T060112_20180715T060557_C001 Ice I CS_OFFL_SIR_NOPM_2_20180715T060618_20180715T060738_C001 Ice I CS_OFFL_SIR_NOPM_2_20180715T061321_20180715T063909_C001 Oce	-	records.
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CS_OFFL_SIR_NOPM_2_20180715T074100_20180715T074456_C001	Rande Averading Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T074517_20180715T074842_C001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T075212_20180715T080313_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T080846_20180715T081841_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T084721_20180715T090625_C001	ean Rande Averadind Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T090628_20180715T091618_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T091925_20180715T092410_C001		The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T093230_20180715T100540_C001	ean Rande Averading Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T101757_20180715T102100_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T105017_20180715T105222_C001 Oce		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T105914_20180715T110437_C001	- Rance Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T111142_20180715T113245_C001 Oce	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T113531_20180715T114701_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T115652_20180715T120037_C001 Oce	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T121644_20180715T122307_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T122323_20180715T123332_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T123841_20180715T124336_C001	- Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T125046_20180715T132253_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T134448_20180715T141113_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T143025_20180715T144514_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T152013_20180715T153544_C001 Oce	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T153758_20180715T155249_C001	ean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T155939_20180715T160153_C001 Ice I	- Rance Averaging Status	The loc Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20180715T160234_20180715T160653_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T160921_20180715T162333_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T162512_20180715T162641_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T162643_20180715T164124_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T170008_20180715T171452_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T171937_20180715T173318_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T173729_20180715T174557_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T174915_20180715T181101_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T184649_20180715T191259_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T191920_20180715T192408_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T192902_20180715T195310_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T202545_20180715T203539_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T204117_20180715T205111_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T205839_20180715T210436_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T210727_20180715T212940_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T214143_20180715T214459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T215722_20180715T223017_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T223747_20180715T224307_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T224646_20180715T224828_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T232051_20180715T232442_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T233629_20180715T234548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T234834_20180716T000948_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180715T025000_20180715T025143_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180715T092906_20180715T092945_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180715T113246_20180715T113531_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180715T122308_20180715T122323_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180715T164554_20180715T164746_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. 75

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180715T001321_20180715T001412_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_20180715T001427_20180715T001449_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_20180715T002510_20180715T005539_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_20180715T005550_20180715T010025_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_20180715T010632_20180715T010831_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T010837_20180715T011252_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T015404_20180715T015507_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T020355_20180715T021934_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_20180715T022245_20180715T022514_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_20180715T022517_20180715T023938_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_20180715T024208_20180715T024729_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180715T025840_20180715T030923_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_20180715T031243_20180715T032951_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_20180715T035157_20180715T040204_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_20180715T040406_20180715T041837_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_20180715T042133_20180715T042629_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS\_OFFL\_SIR\_NOPM\_2\_20180715T042633\_20180715T042640\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T042647\_20180715T042658\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T043532\_20180715T043838\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T045233\_20180715T050530\_C001 CS OFFL SIR NOPM 2 20180715T054250 20180715T055733 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T060112\_20180715T060557\_C001 CS OFFL SIR NOPM 2 20180715T060618 20180715T060738 C001 CS OFFL SIR NOPM 2 20180715T061321 20180715T063909 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T071210\_20180715T073640\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T074100\_20180715T074456\_C001 CS OFFL SIR NOPM 2 20180715T074517 20180715T074842 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T075212\_20180715T080313\_C001 CS OFFL SIR NOPM 2 20180715T080846 20180715T081841 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T084721\_20180715T090625\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T090628\_20180715T091618\_C001 CS OFFL SIR NOPM 2 20180715T091925 20180715T092410 C001 CS OFFL SIR NOPM 2 20180715T092414 20180715T092745 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T093230\_20180715T100540\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T101757\_20180715T102100\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T105017\_20180715T105222\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T105914\_20180715T110437\_C001 CS OFFL SIR NOPM 2 20180715T111142 20180715T113245 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T113531\_20180715T114701\_C001 CS OFFL SIR NOPM 2 20180715T115652 20180715T120037 C001 CS OFFL SIR NOPM 2 20180715T121644 20180715T122307 C001 CS OFFL SIR NOPM 2 20180715T122323 20180715T123332 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T123841\_20180715T124336\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T125046\_20180715T132253\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T134448\_20180715T141113\_C001 CS OFFL SIR NOPM 2 20180715T143025 20180715T144514 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T151445\_20180715T151749\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T152013\_20180715T153544\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T153758\_20180715T155249\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T155939\_20180715T160153\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T160921\_20180715T162333\_C001 CS OFFL SIR NOPM 2 20180715T162512 20180715T162641 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T162643\_20180715T164124\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T170008\_20180715T171452\_C001 CS OFFL SIR NOPM 2 20180715T171937 20180715T173318 C001 CS OFFL SIR NOPM 2 20180715T173729 20180715T174557 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T174915\_20180715T181101\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T184649\_20180715T191259\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T191920\_20180715T192408\_C001 CS OFFL SIR NOPM 2 20180715T192902 20180715T195310 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T202545\_20180715T203539\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T204117\_20180715T205111\_C001 CS OFFL SIR NOPM 2 20180715T205839 20180715T210436 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T210727\_20180715T212940\_C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T215722\_20180715T223017\_C001 CS OFFL SIR NOPM 2 20180715T223747 20180715T224307 C001 CS\_OFFL\_SIR\_NOPM\_2\_20180715T224646\_20180715T224828\_C001 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 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 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 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 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 atter Averaging Status

Ice Backscatter Averaging Status

SWH Averaging Status, Ocean

Backscatter Averaging Status

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

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

#### 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.

54

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: