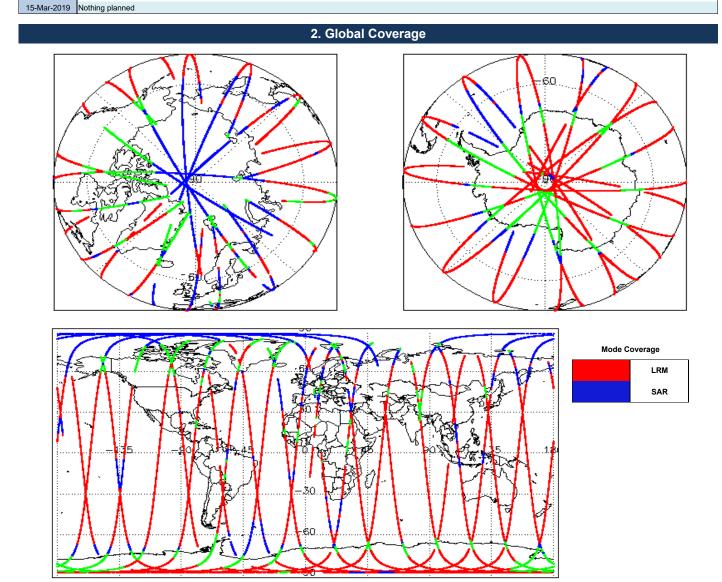


IDEAS+ Daily Report for NOP data:

<u>14/03/2019</u>

1. Overview					
Report Production:	15-Mar-2019	Check	L1 & L2		
		Server check: science-pds.cryosat.esa.int	Nominal		
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal		
Processor used.		Product Software Check	Nominal		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	Product Format Check	Nominal		
		Product Header Analysis	Nominal		
		Auxiliary Data File Usage Check	Nominal		
		Auxiliary Correction Error Check	Nominal		
		Measurement Confidence Data Check	See Section 4.5, 4.6		
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7		
		Ocean Retracking Quality Check	See Section 5.8		
		·			
Mission / Instrument News					

Mission / Instrument News 13-Mar-2019 None 14-Mar-2019 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).

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.

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

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: 15		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190314T112206_20190314T112925_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190314T120454_20190314T121344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190314T154108_20190314T155657_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190314T220731_20190314T220908_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190314T034113_20190314T034232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190314T052049_20190314T052256_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190314T101305_20190314T101402_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190314T132748_20190314T132838_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190314T132919_20190314T133132_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190314T215334_20190314T215356_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190314T233259_20190314T233344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190314T101403_20190314T102152_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190314T115333_20190314T120454_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190314T153904_20190314T154108_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190314T183002_20190314T183513_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

5.2 L2 Product Header Analysis

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

5.3 L2 Auxiliary Data File Usage Check

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

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

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. 70

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190314T000324_20190314T001248_C001	Ocean Rande Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190314T002441_20190314T002525_C001	Ocean Rande Averadind Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190314T002559_20190314T002859_C001 CS_OFFL_SIR_NOPM_2_20190314T004342_20190314T004933_C001 CS_OFFL_SIR_NOPM_2_20190314T005121_20190314T010438_C001 CS_OFFL_SIR_NOPM_2_20190314T011722_20190314T014927_C001 CS OFFL SIR NOPM 2 20190314T020739 20190314T021431 C001 CS OFFL SIR NOPM 2 20190314T021444 20190314T023906 C001 CS OFFL SIR NOPM 2 20190314T024842 20190314T025036 C001 CS OFFL SIR NOPM 2 20190314T025708 20190314T031358 C001 CS_OFFL_SIR_NOPM_2_20190314T031402_20190314T032612_C001 CS_OFFL_SIR_NOPM_2_20190314T034756_20190314T035000_C001 CS OFFL SIR NOPM 2 20190314T035135 20190314T040340 C001 CS_OFFL_SIR_NOPM_2_20190314T041000_20190314T042103_C001 CS OFFL SIR NOPM 2 20190314T043017 20190314T043442 C001 CS_OFFL_SIR_NOPM_2_20190314T043622_20190314T045126_C001 CS_OFFL_SIR_NOPM_2_20190314T045305_20190314T045634_C001 CS OFFL SIR NOPM 2 20190314T053829 20190314T060251 C001 CS_OFFL_SIR_NOPM_2_20190314T060504_20190314T061357_C001 CS_OFFL_SIR_NOPM_2_20190314T061556_20190314T064004_C001 CS OFFL SIR NOPM 2 20190314T070704 20190314T074210 C001 CS_OFFL_SIR_NOPM_2_20190314T074721_20190314T075145_C001 CS_OFFL_SIR_NOPM_2_20190314T075444_20190314T082031_C001 CS OFFL SIR NOPM 2 20190314T084848 20190314T090335 C001 CS_OFFL_SIR_NOPM_2_20190314T090911_20190314T092109_C001 CS OFFL SIR NOPM 2 20190314T092635 20190314T093223 C001 CS OFFL SIR NOPM 2 20190314T093349 20190314T095057 C001 CS OFFL SIR NOPM 2 20190314T102500 20190314T110009 C001 CS_OFFL_SIR_NOPM_2_20190314T110541_20190314T111055_C001 CS_OFFL_SIR_NOPM_2_20190314T111739_20190314T112127_C001 CS_OFFL_SIR_NOPM_2_20190314T112206_20190314T112925_C001 CS_OFFL_SIR_NOPM_2_20190314T114808_20190314T115051_C001 CS_OFFL_SIR_NOPM_2_20190314T120454_20190314T121344_C001 CS_OFFL_SIR_NOPM_2_20190314T121630_20190314T123903_C001 CS OFFL SIR NOPM 2 20190314T124412 20190314T124541 C001 CS_OFFL_SIR_NOPM_2_20190314T124548_20190314T124957_C001 CS_OFFL_SIR_NOPM_2_20190314T125142_20190314T130503_C001 CS OFFL SIR NOPM 2 20190314T130630 20190314T131407 C001 CS_OFFL_SIR_NOPM_2_20190314T131502_20190314T131908_C001 CS_OFFL_SIR_NOPM_2_20190314T134528_20190314T140849_C001 CS OFFL SIR NOPM 2 20190314T140852 20190314T141743 C001 CS OFFL SIR NOPM 2 20190314T141912 20190314T142440 C001 CS_OFFL_SIR_NOPM_2_20190314T142459_20190314T142729_C001 CS_OFFL_SIR_NOPM_2_20190314T143542_20190314T144810_C001 CS_OFFL_SIR_NOPM_2_20190314T144842_20190314T150551_C001 CS OFFL SIR NOPM 2 20190314T150948 20190314T151134 C001 CS_OFFL_SIR_NOPM_2_20190314T152727_20190314T153904_C001 CS_OFFL_SIR_NOPM_2_20190314T154108_20190314T155657_C001 CS OFFL SIR NOPM 2 20190314T155839 20190314T160336 C001 CS_OFFL_SIR_NOPM_2_20190314T160415_20190314T160536_C001 CS_OFFL_SIR_NOPM_2_20190314T161241_20190314T162456_C001 CS OFFL SIR NOPM 2 20190314T162936 20190314T164055 C001 CS_OFFL_SIR_NOPM_2_20190314T172031_20190314T173541_C001 Ocean 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 Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ice 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 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

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

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 20190313T233749 20190314T000039 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190314T000324 20190314T001248 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190314T002441_20190314T002525_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T002559_20190314T002859_C001	Backscatter Averaging Status	more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T004342_20190314T004933_C001	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190314T005121 20190314T010438 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190314T010840_20190314T011129_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
		records.
CS_OFFL_SIR_NOPM_2_20190314T011722_20190314T014927_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T020739_20190314T021431_C001	Backscatter Averaging Status	more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T021444_20190314T023906_C001	Backscatter Averaging Status	more records.
CO. OFFL. SID. NORM. 0. 20100214T024040, 20100214T025026, C001	las Baskasattas Averasias Ctatus	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190314T024842_20190314T025036_C001	Ice Backscatter Averaging Status	records.
CS OFFL SIR NOPM 2 20190314T025708 20190314T031358 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190314T031402 20190314T032612 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190314T034756_20190314T035000_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T035135_20190314T040340_C001	Backscatter Averaging Status	more records.
CC OFFL SID NORM 2 20100214T044000 20400214T042102 C004	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T041000_20190314T042103_C001	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190314T042721 20190314T042953 C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
		records.
CS_OFFL_SIR_NOPM_2_20190314T043017_20190314T043442_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T043622_20190314T045126_C001	Backscatter Averaging Status	more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T045305_20190314T045634_C001	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190314T052955 20190314T053706 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
C3_0FFL_3IK_NOFM_2_201903141032935_201903141033700_C001	Backscatter Averaging Status	more records.
CS OFFL SIR NOPM 2 20190314T053829 20190314T060251 C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status	more records.
CS_OFFL_SIR_NOPM_2_20190314T060504_20190314T061357_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T061556_20190314T064004_C001	Backscatter Averaging Status	more records.
	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_NOPM_2_20190314T070704_20190314T074210_C001	Backscatter Averaging Status	more records.
CS OFEL SID NODM 2 20400214T074721 20400214T075445 0004	les Reskasster Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20190314T074721_20190314T075145_C001	Ice Backscatter Averaging Status	records.
		records.

CS_OFFL_SIR_NOPM_2_20190314T075444_20190314T082031_C001 CS_OFFL_SIR_NOPM_2_20190314T084848_20190314T090335_C001 CS_OFFL_SIR_NOPM_2_20190314T090911_20190314T092109_C001 CS_OFFL_SIR_NOPM_2_20190314T092635_20190314T093223_C001 CS OFFL SIR NOPM 2 20190314T093349 20190314T095057 C001 CS_OFFL_SIR_NOPM_2_20190314T102500_20190314T110009_C001 CS OFFL SIR NOPM 2 20190314T110541 20190314T111055 C001 CS OFFL SIR NOPM 2 20190314T111231 20190314T111539 C001 CS_OFFL_SIR_NOPM_2_20190314T111739_20190314T112127_C001 CS_OFFL_SIR_NOPM_2_20190314T112206_20190314T112925_C001 CS OFFL SIR NOPM 2 20190314T114808 20190314T115051 C001 CS_OFFL_SIR_NOPM_2_20190314T120454_20190314T121344_C001 CS OFFL SIR NOPM 2 20190314T121630 20190314T123903 C001 CS_OFFL_SIR_NOPM_2_20190314T124412_20190314T124541_C001 CS_OFFL_SIR_NOPM_2_20190314T124548_20190314T124957_C001 CS OFFL SIR NOPM 2 20190314T125142 20190314T130503 C001 CS_OFFL_SIR_NOPM_2_20190314T130630_20190314T131407_C001 CS_OFFL_SIR_NOPM_2_20190314T131502_20190314T131908_C001 CS_OFFL_SIR_NOPM_2_20190314T134528_20190314T140849_C001 CS_OFFL_SIR_NOPM_2_20190314T140852_20190314T141743_C001 CS_OFFL_SIR_NOPM_2_20190314T141912_20190314T142440_C001 CS OFFL SIR NOPM 2 20190314T142459 20190314T142729 C001 CS OFFL SIR NOPM 2 20190314T143542 20190314T144810 C001 CS OFFL SIR NOPM 2 20190314T144842 20190314T150551 C001 CS OFFL SIR NOPM 2 20190314T152727 20190314T153904 C001 CS OFFL SIR NOPM 2 20190314T154108 20190314T155657 C001 CS_OFFL_SIR_NOPM_2_20190314T155839_20190314T160336_C001 CS_OFFL_SIR_NOPM_2_20190314T160415_20190314T160536_C001 CS_OFFL_SIR_NOPM_2_20190314T161241_20190314T162456_C001 CS OFFL SIR NOPM 2 20190314T162936 20190314T164055 C001 CS_OFFL_SIR_NOPM_2_20190314T172031_20190314T173541_C001 CS_OFFL_SIR_NOPM_2_20190314T173802_20190314T174249_C001 CS OFFL SIR NOPM 2 20190314T174313 20190314T174322 C001 CS_OFFL_SIR_NOPM_2_20190314T174902_20190314T181251_C001 CS_OFFL_SIR_NOPM_2_20190314T181304_20190314T181617_C001 CS OFFL SIR NOPM 2 20190314T202647 20190314T205452 C001 CS_OFFL_SIR_NOPM_2_20190314T205620_20190314T210117_C001 CS_OFFL_SIR_NOPM_2_20190314T210125_20190314T210453_C001 CS OFFL SIR NOPM 2 20190314T210751 20190314T211930 C001 CS OFFL SIR NOPM 2 20190314T212505 20190314T214254 C001 CS_OFFL_SIR_NOPM_2_20190314T215604_20190314T215621_C001 CS_OFFL_SIR_NOPM_2_20190314T223619_20190314T224149_C001 CS_OFFL_SIR_NOPM_2_20190314T224657_20190314T232109_C001 CS OFFL SIR NOPM 2 20190314T233445 20190314T233607 C001 CS_OFFL_SIR_NOPM_2_20190314T235407_20190315T001350_C001 CS_OFFL_SIR_NOPN_2_20190314T015616_20190314T015634_C001 CS OFFL SIR NOPR 2 20190314T101403 20190314T102152 C001 CS_OFFL_SIR_NOPR_2_20190314T111208_20190314T111231_C001 CS_OFFL_SIR_NOPR_2_20190314T142917_20190314T143202_C001

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5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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: