

IDEAS+ Daily Report for NOP data:

<u>07/04/2019</u>



1. Overview			
	00 Arr 0010	Check	L1 & L2
Report Production:	08-Apr-2019	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
10003301 0304.		Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check Measurement Confidence Data Check	Nominal See Section 4.5, 4.6 and 5.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7
		Ocean Retracking Quality Check	See Section 5.8
sion / Instrument Ne	ews		
6-Apr-2019 None 7-Apr-2019 None			
	planned		
	planned		
		2. Global Coverage	
Mode Coverage LRM Sar			
		3. Instrument Configuration	
SIRAL instrument co	onfiguration for the day of acquisition is provi	ded below.	

SIRAL - A

0

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

SIRAL instrument(s) in use:

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:

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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190407T171940_20190407T175440_C001		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.

11

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190407T024540_20190407T025503_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190407T214629_20190407T215549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190407T013302_20190407T013741_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190407T031205_20190407T031314_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190407T130302_20190407T130412_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190407T135737_20190407T135928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190407T144108_20190407T144326_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190407T153608_20190407T154113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190407T094333_20190407T095225_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190407T143306_20190407T143350_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190407T162207_20190407T162814_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. 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).

1

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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190407T171940_20190407T175440_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.

Number of products with errors: 74

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190407T000746_20190407T001206_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190407T001302_20190407T003040_C001 CS OFFL SIR NOPM 2 20190407T003340 20190407T003451 C001 CS_OFFL_SIR_NOPM_2_20190407T004011_20190407T004211_C001 CS_OFFL_SIR_NOPM_2_20190407T004901_20190407T010653_C001 CS OFFL SIR NOPM 2 20190407T011110 20190407T011816 C001 CS_OFFL_SIR_NOPM_2_20190407T013820_20190407T015606_C001 CS OFFL SIR NOPM 2 20190407T015728 20190407T021122 C001 CS OFFL SIR NOPM 2 20190407T022229 20190407T022622 C001 CS_OFFL_SIR_NOPM_2_20190407T022801_20190407T024338_C001 CS_OFFL_SIR_NOPM_2_20190407T024540_20190407T025503_C001 CS OFFL SIR NOPM 2 20190407T032256 20190407T033407 C001 CS_OFFL_SIR_NOPM_2_20190407T035013_20190407T035412_C001 CS OFFL SIR NOPM 2 20190407T035726 20190407T040523 C001 CS_OFFL_SIR_NOPM_2_20190407T040712_20190407T042245_C001 CS_OFFL_SIR_NOPM_2_20190407T045941_20190407T050915_C001 CS OFFL SIR NOPM 2 20190407T050935 20190407T053330 C001 CS_OFFL_SIR_NOPM_2_20190407T053834_20190407T054410_C001 CS_OFFL_SIR_NOPM_2_20190407T054638_20190407T061158_C001 CS_OFFL_SIR_NOPM_2_20190407T064335_20190407T065508_C001 CS_OFFL_SIR_NOPM_2_20190407T070045_20190407T071229_C001 CS_OFFL_SIR_NOPM_2_20190407T071808_20190407T072243_C001 CS OFFL SIR NOPM 2 20190407T072343 20190407T072401 C001 CS_OFFL_SIR_NOPM_2_20190407T072524_20190407T075341_C001 CS OFFL SIR NOPM 2 20190407T081751 20190407T085139 C001 CS OFFL SIR NOPM 2 20190407T085718 20190407T090250 C001 CS OFFL SIR NOPM 2 20190407T090413 20190407T091036 C001 CS_OFFL_SIR_NOPM_2_20190407T094145_20190407T094332_C001 CS_OFFL_SIR_NOPM_2_20190407T095654_20190407T103103_C001 CS_OFFL_SIR_NOPM_2_20190407T103621_20190407T104132_C001 CS OFFL SIR NOPM 2 20190407T104314 20190407T110150 C001 CS_OFFL_SIR_NOPM_2_20190407T113505_20190407T120849_C001 CS_OFFL_SIR_NOPM_2_20190407T122236_20190407T125134_C001 CS OFFL SIR NOPM_2_20190407T125151_20190407T125851_C001 CS_OFFL_SIR_NOPM_2_20190407T130024_20190407T130302_C001 CS_OFFL_SIR_NOPM_2_20190407T131823_20190407T132558_C001 CS OFFL SIR NOPM 2 20190407T133229 20190407T134820 C001 CS_OFFL_SIR_NOPM_2_20190407T135001_20190407T135518_C001 CS OFFL SIR NOPM 2 20190407T135537 20190407T135736 C001 CS OFFL SIR NOPM 2 20190407T140603 20190407T141853 C001 CS_OFFL_SIR_NOPM_2_20190407T142108_20190407T143306_C001 CS_OFFL_SIR_NOPM_2_20190407T143552_20190407T143654_C001 CS OFFL SIR NOPM 2 20190407T150031 20190407T151058 C001 CS_OFFL_SIR_NOPM_2_20190407T151238_20190407T152738_C001 CS_OFFL_SIR_NOPM_2_20190407T152926_20190407T153429_C001 CS_OFFL_SIR_NOPM_2_20190407T155211_20190407T155447_C001 CS_OFFL_SIR_NOPM_2_20190407T160208_20190407T160445_C001 CS OFFL SIR NOPM 2 20190407T160608 20190407T161307 C001 CS_OFFL_SIR_NOPM_2_20190407T164906_20190407T170635_C001 CS_OFFL_SIR_NOPM_2_20190407T170933_20190407T171345_C001 CS OFFL SIR NOPM 2 20190407T171407 20190407T171553 C001 CS_OFFL_SIR_NOPM_2_20190407T171940_20190407T175440_C001

Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status 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 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 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 Ice Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status 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 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 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 ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The 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 Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more ecords The 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 record 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_20190407T182036_20190407T184621_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T184736_20190407T185259_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T185306_20190407T185630_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T185846_20190407T191058_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T191634_20190407T193201_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T195531_20190407T201809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T201921_20190407T202558_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T202731_20190407T203537_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T203813_20190407T211302_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T212613_20190407T212716_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T215632_20190407T220525_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T220708_20190407T221225_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T221743_20190407T224034_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T224320_20190407T225241_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T230447_20190407T230856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T232448_20190407T232930_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T233118_20190407T234431_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T235710_20190408T003048_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190407T062455_20190407T062514_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190407T130302_20190407T130412_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190407T093127_20190407T093205_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190407T141854_20190407T142107_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.

To at Falle d

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. 73

Number of products with errors:

-

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190407T001302_20190407T003040_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_20190407T003340_20190407T003451_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_20190407T004011_20190407T004211_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T004901_20190407T010653_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_20190407T011110_20190407T011816_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_20190407T013820_20190407T015606_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_20190407T015728_20190407T021122_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_20190407T022229_20190407T022622_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T022801_20190407T024338_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_20190407T024540_20190407T025503_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_20190407T032256_20190407T033407_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_20190407T035013_20190407T035412_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_20190407T035726_20190407T040523_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T040712_20190407T042245_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_20190407T045941_20190407T050915_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_20190407T050935_20190407T053330_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_20190407T053834_20190407T054410_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190407T054638_20190407T061158_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_20190407T064335_20190407T065508_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_20190407T070045_20190407T071229_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_20190407T071808_20190407T072243_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190407T072524_20190407T075341_C001 CS OFFL SIR NOPM 2 20190407T081751 20190407T085139 C001 CS_OFFL_SIR_NOPM_2_20190407T085718_20190407T090250_C001 CS_OFFL_SIR_NOPM_2_20190407T090413_20190407T091036_C001 CS OFFL SIR NOPM 2 20190407T094145 20190407T094332 C001 CS_OFFL_SIR_NOPM_2_20190407T095654_20190407T103103_C001 CS OFFL SIR NOPM 2 20190407T103621 20190407T104132 C001 CS OFFL SIR NOPM 2 20190407T104314 20190407T110150 C001 CS_OFFL_SIR_NOPM_2_20190407T113505_20190407T120849_C001 CS_OFFL_SIR_NOPM_2_20190407T121637_20190407T122034_C001 CS OFFL SIR NOPM 2 20190407T122236 20190407T125134 C001 CS_OFFL_SIR_NOPM_2_20190407T125151_20190407T125851_C001 CS OFFL SIR NOPM 2 20190407T130024 20190407T130302 C001 CS_OFFL_SIR_NOPM_2_20190407T131823_20190407T132558_C001 CS_OFFL_SIR_NOPM_2_20190407T133229_20190407T134820_C001 CS OFFL SIR NOPM 2 20190407T135001 20190407T135518 C001 CS_OFFL_SIR_NOPM_2_20190407T135537_20190407T135736_C001 CS_OFFL_SIR_NOPM_2_20190407T142108_20190407T143306_C001 CS_OFFL_SIR_NOPM_2_20190407T143552_20190407T143654_C001 CS_OFFL_SIR_NOPM_2_20190407T150031_20190407T151058_C001 CS_OFFL_SIR_NOPM_2_20190407T151238_20190407T152738_C001 CS OFFL SIR NOPM 2 20190407T152926 20190407T153429 C001 CS_OFFL_SIR_NOPM_2_20190407T155211_20190407T155447_C001 CS OFFL SIR NOPM 2 20190407T160208 20190407T160445 C001 CS OFFL SIR NOPM 2 20190407T160608 20190407T161307 C001 CS_OFFL_SIR_NOPM_2_20190407T164359_20190407T164711_C001 CS_OFFL_SIR_NOPM_2_20190407T164906_20190407T170635_C001 CS_OFFL_SIR_NOPM_2_20190407T170933_20190407T171345_C001 CS_OFFL_SIR_NOPM_2_20190407T171407_20190407T171553_C001 CS OFFL SIR NOPM 2 20190407T171940 20190407T175440 C001 CS_OFFL_SIR_NOPM_2_20190407T182036_20190407T184621_C001 CS_OFFL_SIR_NOPM_2_20190407T184736_20190407T185259_C001 CS OFFL SIR NOPM 2 20190407T185306 20190407T185630 C001 CS_OFFL_SIR_NOPM_2_20190407T185846_20190407T191058_C001 CS_OFFL_SIR_NOPM_2_20190407T191634_20190407T193201_C001 CS OFFL SIR NOPM 2 20190407T195531 20190407T201809 C001 CS_OFFL_SIR_NOPM_2_20190407T201921_20190407T202558_C001 CS_OFFL_SIR_NOPM_2_20190407T202731_20190407T203537_C001 CS OFFL SIR NOPM 2 20190407T203813 20190407T211302 C001 CS_OFFL_SIR_NOPM_2_20190407T212613_20190407T212716_C001 CS_OFFL_SIR_NOPM_2_20190407T215632_20190407T220525_C001 CS OFFL SIR NOPM 2 20190407T220708 20190407T221225 C001 CS_OFFL_SIR_NOPM_2_20190407T221743_20190407T224034_C001 CS_OFFL_SIR_NOPM_2_20190407T224320_20190407T225241_C001 CS_OFFL_SIR_NOPM_2_20190407T230447_20190407T230856_C001 CS_OFFL_SIR_NOPM_2_20190407T232448_20190407T232930_C001 CS OFFL SIR NOPM 2 20190407T233118 20190407T234431 C001 CS_OFFL_SIR_NOPM_2_20190407T235710_20190408T003048_C001 CS_OFFL_SIR_NOPN_2_20190407T062455_20190407T062514_C001 CS OFFL SIR NOPN 2 20190407T130302 20190407T130412 C001

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

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

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

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 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 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 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 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 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.

CS_OFFL_SIR_NOPR_2_20190407T141854_20190407T142107_C001

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

49

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: