

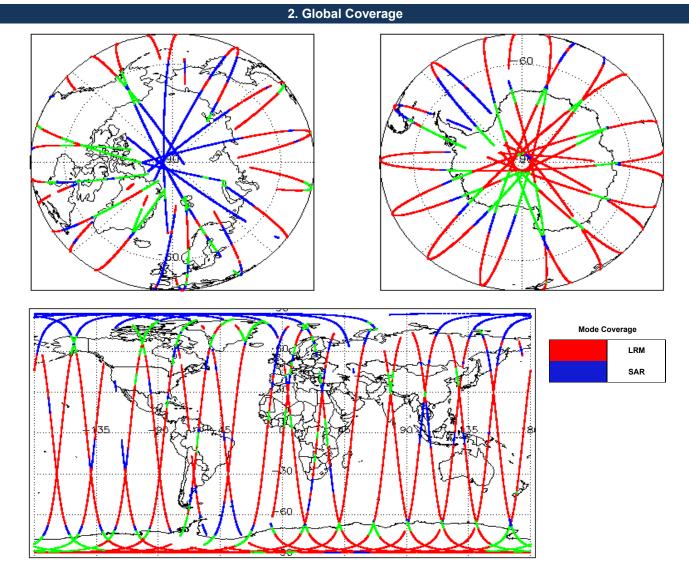
IDEAS+ Daily Report for NOP data:

24/03/2019

Report Production:25-Mar-2019	05 Max 0040	Check	L1 & L2
	23-Mai-2019	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used: CryoSat Ocean Processor	Crive Cat Occore Dressoner	Server check: calval-pds.cryosat.esa.int	Nominal
	Product Software Check	Nominal	
Data Used: Near Real Time Ocean Products (NOP) L1B & L2 Science Data	Near Real Time Ocean Products (NOP)	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 and 5.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7
		Ocean Retracking Quality Check	See Section 5.8

23-Mar-2019 None 24-Mar-2019 None





3. Instrument Configuration

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

SIRAL instrument(s) in use:

e: 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

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.

4.4 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_20190324T183716_20190324T190322_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.

10

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190324T010604_20190324T013617_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190324T015015_20190324T015418_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190324T050828_20190324T051047_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190324T060131_20190324T060319_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190324T092009_20190324T092125_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190324T131649_20190324T131855_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190324T232051_20190324T232150_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190324T001435_20190324T002200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190324T040420_20190324T040703_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190324T163324_20190324T163403_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: 0

1

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_20190324T183716_20190324T190322_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

CrvoSat 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_20190323T235111_20190324T000025_C001	Ocean Rande Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T001212_20190324T001253_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_NOPM_2_20190324T003108_20190324T005235_C001 CS_OFFL_SIR_NOPM_2_20190324T005655_20190324T005917_C001 CS_OFFL_SIR_NOPM_2_20190324T010604_20190324T013617_C001 CS_OFFL_SIR_NOPM_2_20190324T015505_20190324T021412_C001 CS OFFL SIR NOPM 2 20190324T021430 20190324T022719 C001 CS OFFL SIR NOPM 2 20190324T024009 20190324T024328 C001 CS OFFL SIR NOPM 2 20190324T024457 20190324T030048 C001 CS OFFL SIR NOPM 2 20190324T030250 20190324T031231 C001 CS_OFFL_SIR_NOPM_2_20190324T033019_20190324T033212_C001 CS_OFFL_SIR_NOPM_2_20190324T033505_20190324T033657_C001 CS_OFFL_SIR_NOPM_2_20190324T033931_20190324T035131_C001 CS_OFFL_SIR_NOPM_2_20190324T040756_20190324T040854_C001 CS OFFL SIR NOPM 2 20190324T041456 20190324T041746 C001 CS_OFFL_SIR_NOPM_2_20190324T041759_20190324T042229_C001 CS_OFFL_SIR_NOPM_2_20190324T042416_20190324T043915_C001 CS OFFL SIR NOPM 2 20190324T052620 20190324T055039 C001 CS OFFL SIR NOPM 2 20190324T055258 20190324T060131 C001 CS_OFFL_SIR_NOPM_2_20190324T060337_20190324T062918_C001 CS OFFL SIR NOPM 2 20190324T070244 20190324T071410 C001 CS_OFFL_SIR_NOPM_2_20190324T071742_20190324T072944_C001 CS_OFFL_SIR_NOPM_2_20190324T073225_20190324T073352_C001 CS OFFL SIR NOPM 2 20190324T073511 20190324T073929 C001 CS_OFFL_SIR_NOPM_2_20190324T083555_20190324T085124_C001 CS OFFL SIR NOPM 2 20190324T085656 20190324T090851 C001 CS OFFL SIR NOPM 2 20190324T091423 20190324T092009 C001 CS OFFL SIR NOPM 2 20190324T092125 20190324T092749 C001 CS_OFFL_SIR_NOPM_2_20190324T101309_20190324T104805_C001 CS_OFFL_SIR_NOPM_2_20190324T105328_20190324T105840_C001 CS_OFFL_SIR_NOPM_2_20190324T110020_20190324T111952_C001 CS OFFL SIR NOPM 2 20190324T115220 20190324T122027 C001 CS_OFFL_SIR_NOPM_2_20190324T122038_20190324T122628_C001 CS_OFFL_SIR_NOPM_2_20190324T123334_20190324T123747_C001 CS OFFL SIR NOPM 2 20190324T133354 20190324T134719 C001 CS_OFFL_SIR_NOPM_2_20190324T134742_20190324T140536_C001 CS_OFFL_SIR_NOPM_2_20190324T140704_20190324T141226_C001 CS OFFL SIR NOPM 2 20190324T142334 20190324T143558 C001 CS_OFFL_SIR_NOPM_2_20190324T143723_20190324T145007_C001 CS_OFFL_SIR_NOPM_2_20190324T145106_20190324T145411_C001 CS OFFL SIR NOPM 2 20190324T151553 20190324T152659 C001 CS OFFL SIR NOPM 2 20190324T152902 20190324T154442 C001 CS_OFFL_SIR_NOPM_2_20190324T154630_20190324T155125_C001 CS_OFFL_SIR_NOPM_2_20190324T160006_20190324T160426_C001 CS_OFFL_SIR_NOPM_2_20190324T161745_20190324T163021_C001 CS OFFL SIR NOPM 2 20190324T170807 20190324T172346 C001 CS_OFFL_SIR_NOPM_2_20190324T172606_20190324T173053_C001 CS_OFFL_SIR_NOPM_2_20190324T173624_20190324T180348_C001 CS OFFL SIR NOPM 2 20190324T183716 20190324T190322 C001 CS_OFFL_SIR_NOPM_2_20190324T190601_20190324T190952_C001 CS_OFFL_SIR_NOPM_2_20190324T191013_20190324T191338_C001 CS OFFL SIR NOPM 2 20190324T191601 20190324T192808 C001 CS OFFL SIR NOPM 2 20190324T201436 20190324T204254 C001

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 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 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 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 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 Ocean Range Averaging Status

records

The Ocean Range Averaging Status Flag has been set for one or more reco The Ice Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The 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 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 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 The Ocean Range Averaging Status Flag has been set for one or more ecords The Ice Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more records The Ice Range Averaging Status Flag has been set for one or more ecords The Ocean Range Averaging Status Flag has been set for one or more records The Ocean Range Averaging Status Flag has been set for one or more records The 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 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 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 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 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 record 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_20190324T204418_20190324T204906_C001	Ice Range Averaging Status	The lce Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T205532_20190324T210724_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T210902_20190324T213035_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T214340_20190324T214508_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T221919_20190324T222226_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T222410_20190324T222934_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T223438_20190324T225737_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T230023_20190324T230913_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T232214_20190324T232524_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T234139_20190325T000125_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190324T005917_20190324T010433_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190324T014346_20190324T014349_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190324T023825_20190324T024008_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190324T105840_20190324T110000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20190324T232051_20190324T232150_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190324T071410_20190324T071741_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20190324T155936_20190324T160006_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.

66

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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190323T235111_20190324T000025_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_20190324T001212_20190324T001253_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_20190324T003108_20190324T005235_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_20190324T010604_20190324T013617_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_20190324T015505_20190324T021412_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_20190324T021430_20190324T022719_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_20190324T024009_20190324T024328_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T024457_20190324T030048_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_20190324T030250_20190324T031231_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_20190324T033019_20190324T033212_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T033505_20190324T033657_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_20190324T033931_20190324T035131_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_20190324T041456_20190324T041746_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T042416_20190324T043915_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_20190324T052620_20190324T055039_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_20190324T055258_20190324T060131_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T060337_20190324T062918_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_20190324T070244_20190324T071410_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_20190324T071742_20190324T072944_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_20190324T073225_20190324T073352_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T073511_20190324T073929_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T083555_20190324T085124_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_20190324T085656_20190324T090851_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_20190324T091423_20190324T092009_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20190324T092125_20190324T092749_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_20190324T101309_20190324T104805_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_20190324T105328_20190324T105840_C001 CS_OFFL_SIR_NOPM_2_20190324T110020_20190324T111952_C001 CS_OFFL_SIR_NOPM_2_20190324T115220_20190324T122027_C001 CS_OFFL_SIR_NOPM_2_20190324T122038_20190324T122628_C001 CS OFFL SIR NOPM 2 20190324T123334 20190324T123747 C001 CS_OFFL_SIR_NOPM_2_20190324T133354_20190324T134719_C001 CS OFFL SIR NOPM 2 20190324T134742 20190324T140536 C001 CS OFFL SIR NOPM 2 20190324T140704 20190324T141226 C001 CS_OFFL_SIR_NOPM_2_20190324T142334_20190324T143558_C001 CS_OFFL_SIR_NOPM_2_20190324T143723_20190324T145007_C001 CS_OFFL_SIR_NOPM_2_20190324T145106_20190324T145411_C001 CS_OFFL_SIR_NOPM_2_20190324T151553_20190324T152659_C001 CS OFFL SIR NOPM 2 20190324T152902 20190324T154442 C001 CS_OFFL_SIR_NOPM_2_20190324T154630_20190324T155125_C001 CS_OFFL_SIR_NOPM_2_20190324T160006_20190324T160426_C001 CS OFFL SIR NOPM 2 20190324T170807 20190324T172346 C001 CS_OFFL_SIR_NOPM_2_20190324T172606_20190324T173053_C001 CS_OFFL_SIR_NOPM_2_20190324T173624_20190324T180348_C001 CS_OFFL_SIR_NOPM_2_20190324T183716_20190324T190322_C001 CS_OFFL_SIR_NOPM_2_20190324T190601_20190324T190952_C001 CS_OFFL_SIR_NOPM_2_20190324T191013_20190324T191338_C001 CS OFFL SIR NOPM 2 20190324T191601 20190324T192808 C001 CS_OFFL_SIR_NOPM_2_20190324T201436_20190324T204254_C001 CS OFFL SIR NOPM 2 20190324T204418 20190324T204906 C001 CS OFFL SIR NOPM 2 20190324T204911 20190324T205241 C001 CS OFFL SIR NOPM 2 20190324T205532 20190324T210724 C001 CS_OFFL_SIR_NOPM_2_20190324T210902_20190324T213035_C001 CS_OFFL_SIR_NOPM_2_20190324T221919_20190324T222226_C001 CS_OFFL_SIR_NOPM_2_20190324T222410_20190324T222934_C001 CS OFFL SIR NOPM 2 20190324T223438 20190324T225737 C001 CS_OFFL_SIR_NOPM_2_20190324T230023_20190324T230913_C001 CS_OFFL_SIR_NOPM_2_20190324T232214_20190324T232524_C001 CS OFFL SIR NOPM 2 20190324T234139 20190325T000125 C001 CS_OFFL_SIR_NOPN_2_20190324T005917_20190324T010433_C001 CS_OFFL_SIR_NOPN_2_20190324T014346_20190324T014349_C001 CS OFFL SIR NOPN 2 20190324T023825 20190324T024008 C001 CS_OFFL_SIR_NOPN_2_20190324T105840_20190324T110000_C001 CS_OFFL_SIR_NOPN_2_20190324T232051_20190324T232150_C001 CS OFFL SIR NOPR 2 20190324T071410 20190324T071741 C001 CS_OFFL_SIR_NOPR_2_20190324T155936_20190324T160006_C001

Ice Backscatter Averaging Status

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

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

Ice Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean

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

Ice Backscatter Averaging Status

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

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

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

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

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

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

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

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

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

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

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

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

The 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 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 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 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.

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.

41

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: