







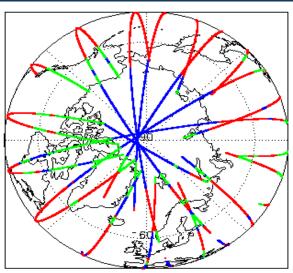
1. Overview

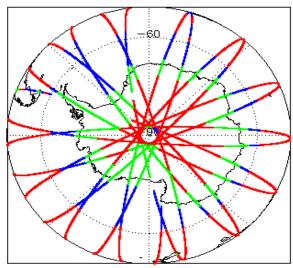
Report Production:	26-Jul-2018 CryoSat Ocean Processor	
Processor Used:		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

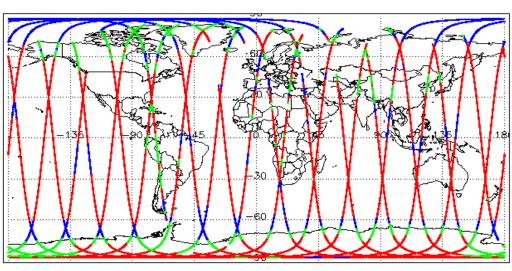
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	See Section 5.2
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	Nominal
Measurement 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

Mission / Instrument News		
24-Jul-2018	None	
25-Jul-2018	None	
26-Jul-2018	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

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:

0

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.

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:

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		Description
CS_OFFL_SIR_NOPM1B_20180725T164951_20180725T165701_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:

9

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20180725T083524_20180725T090404_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20180725T124327_20180725T131501_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180725T032056_20180725T032325_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180725T045950_20180725T050022_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180725T050034_20180725T050207_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180725T101524_20180725T101724_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180725T154135_20180725T154720_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20180725T181952_20180725T182438_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20180725T000500_20180725T001249_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180725T164951_20180725T165701_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180725T001250_20180725T004810_C001		The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T005636_20180725T010035_C001	lice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T010522_20180725T013136_C001		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
CS_OFFL_SIR_NOPM_2_20180725T014036_20180725T014301_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T015123_20180725T020554_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180725T021036_20180725T021200_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T021203_20180725T022737_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T022959_20180725T023518_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T023537_20180725T023738_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T024611_20180725T025855_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T030109_20180725T031823_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T031843_20180725T031903_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T034027_20180725T034959_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T035234_20180725T040628_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T040924_20180725T041429_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T041453_20180725T041608_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T043300_20180725T043441_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T044022_20180725T044446_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T052916_20180725T054522_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T054926_20180725T055345_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T060103_20180725T062546_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T070021_20180725T072429_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T072736_20180725T073259_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T073305_20180725T073630_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T074011_20180725T075100_C001	Ocean 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_20180725T075636_20180725T081152_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T083524_20180725T090404_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T090727_20180725T091537_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T092027_20180725T095306_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T100546_20180725T100716_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T103643_20180725T104225_C001	Ocean Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T104706_20180725T105225_C001	Ice Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T105926_20180725T112036_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_NOPM_2_20180725T112321_20180725T113459_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T114421_20180725T114854_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T120443_20180725T120927_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T121115_20180725T122133_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T123840_20180725T124318_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T124327_20180725T131501_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T132742_20180725T133443_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T133504_20180725T135902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T140837_20180725T141031_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T141801_20180725T143343_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T143723_20180725T144624_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T150229_20180725T150641_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T150754_20180725T152334_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T152954_20180725T154036_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T154721_20180725T154946_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T155015_20180725T155439_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T155723_20180725T161122_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T161302_20180725T162821_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T164951_20180725T165701_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T165823_20180725T170314_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_NOPM_2_20180725T170536_20180725T172120_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
	1	records.

CS_OFFL_SIR_NOPM_2_20180725T172505_20180725T173350_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T173704_20180725T175831_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T183748_20180725T190043_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T190427_20180725T190611_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T190715_20180725T191143_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T191639_20180725T194015_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T200909_20180725T202329_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T202906_20180725T203857_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T204630_20180725T205221_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T205510_20180725T211326_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T211518_20180725T212038_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T213124_20180725T213250_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T214448_20180725T221817_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T222536_20180725T223052_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T223734_20180725T224020_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T230815_20180725T231218_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T232124_20180725T233337_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T233623_20180725T235736_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180725T082741_20180725T082808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPN_2_20180725T104540_20180725T104706_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180725T020554_20180725T021035_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180725T031903_20180725T032000_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180725T042300_20180725T042317_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180725T141656_20180725T141801_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180725T163442_20180725T163539_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180725T231218_20180725T232124_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.

Number of products with errors: 80

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20180725T001250_20180725T004810_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_20180725T005636_20180725T010035_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T010522_20180725T013136_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_20180725T014036_20180725T014301_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T015123_20180725T020554_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_20180725T021203_20180725T022737_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_20180725T022959_20180725T023518_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T023524_20180725T023530_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T023537_20180725T023738_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T024611_20180725T025855_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_20180725T030109_20180725T031823_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_20180725T031843_20180725T031903_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_20180725T034027_20180725T034959_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_20180725T035234_20180725T040628_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_20180725T040924_20180725T041429_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPM_2_20180725T043300_20180725T043441_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_20180725T044022_20180725T044446_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_20180725T052541_20180725T052707_C001 SWH Averaging Status, Ocean Backscatter Averaging Status CS_OFFL_SIR_NOPM_2_20180725T054926_20180725T055345_C001 SWH Averaging Status, Ocean Backscatter Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records. The SWH and Ocean Averaging Status Flags have been set for one more records. The SWH and Ocean Averaging Status Flags have been set for one more records. The SWH and Ocean Averaging Status Flags have been set for one more records.	
Backscatter Averaging Status more records. CS_OFFL_SIR_NOPM_2_201807251054926_201807251054922_C001 Backscatter Averaging Status more records. The Ice Backscatter Averaging Status Flag has been set for one or records.	or
records.	nore
CS_OFFL_SIR_NOPM_2_20180725T060103_20180725T062546_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T070021_20180725T072429_C001 SWH Averaging Status, Ocean Backscatter Averaging Status Backscatter Averaging Status more records.	or
CS_OFFL_SIR_NOPM_2_20180725T072736_20180725T073259_C001	nore
CS_OFFL_SIR_NOPM_2_20180725T073305_20180725T073630_C001	nore
CS_OEFL_SIR_NOPM_2_20180725T074011_20180725T075100_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
CS_OEFI_SIR_NORM_2_20180725T075636_20180725T081152_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
CS_OFFI_SIR_NORM_2_20180725T083524_20180725T090404_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
CS_OFFL_SIR_NOPM_2_20180725T090727_20180725T091537_C001 Ice Backscatter Averaging Status The Ice Backscatter The I	nore
CS_OEFL_SIR_NOPM_2_20180725T092027_20180725T095306_C001	or
Backscatter Averaging Status Infore records. SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
SWH Averaging Status, Ocean SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
Backscatter Averaging Status Inflore records. SWM Averaging Status Ocean The SWM and Ocean Averaging Status Flags have been set for one	or
CS_OFFL_SIR_NOPM_2_20180725T103643_20180725T104225_C001 Backscatter Averaging Status Fig. 10 NOPM_2_20180725T404705_20180725T404705_C0048 Backscatter Averaging Status Fig. 10 NOPM_2_20180725T404705_20180725T404705_C0048 Fig. 10 NoPM_2_20180725T404705_C0048 Fig. 10 NoPM_2_201807	nore
CS_OFFL_SIR_NOPM_2_20180725T104706_20180725T105225_C001 Ice Backscatter Averaging Status SWH Averaging Status, Ocean SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
Backscatter Averaging Status more records. SWH Averaging Status Coan The SWH and Ocean Averaging Status Flags have been set for one	
Backscatter Averaging Status more records. SWH Averaging Status Coean Averaging Status Flags have been set for one	
Backscatter Averaging Status more records. SWH Averaging Status Coan The SWH and Ocean Averaging Status Flags have been set for one	
CS_OFFL_SIR_NOPM_2_20180725T120443_20180725T120927_C001 Backscatter Averaging Status SWH Averaging Status, Ocean SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	
Backscatter Averaging Status more records.	
CS_OFFL_SIR_NOPM_2_20180725T123840_20180725T124318_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	
CS_OFFL_SIR_NOPM_2_20180725T124327_20180725T131501_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	
CS_OFFL_SIR_NOPM_2_20180725T132742_20180725T133443_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	
CS_OFFL_SIR_NOPM_2_20180725T133504_20180725T135902_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	
CS_OFFL_SIR_NOPM_2_20180725T140837_20180725T141031_C001	
CS_OFFL_SIR_NOPM_2_20180725T141801_20180725T143343_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	
CS_OFFL_SIR_NOPM_2_20180725T143723_20180725T144624_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T150229_20180725T150641_C001	nore
CS_OFFL_SIR_NOPM_2_20180725T150754_20180725T152334_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T152954_20180725T154036_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T154721_20180725T154946_C001	nore
CS_OFFL_SIR_NOPM_2_20180725T155015_20180725T155439_C001	nore
CS_OFFL_SIR_NOPM_2_20180725T155723_20180725T161122_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T161302_20180725T162821_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T164951_20180725T165701_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T165823_20180725T170314_C001 SWH Averaging Status, Ocean Backscatter Averaging Status The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T170536_20180725T172120_C001 SWH Averaging Status, Ocean Backscatter Averaging Status Backscatter Averaging Status more records.	or
CS_OFFL_SIR_NOPM_2_20180725T172505_20180725T173350_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or records.	nore
CS_OFFL_SIR_NOPM_2_20180725T173704_20180725T175831_C001 SWH Averaging Status, Ocean Backscatter Averaging Status more records. The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T183748_20180725T190043_C001 SWH Averaging Status, Ocean SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one more records.	or
CS_OFFL_SIR_NOPM_2_20180725T190427_20180725T190611_C001	nore
CS_OFFL_SIR_NOPM_2_20180725T190715_20180725T191143_C001 Ice Backscatter Averaging Status The Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Averaging Status Flag has been set for one or in the Ice Backscatter Ave	nore
CS_OEFL_SIR_NORM_2_20180725T191639_20180725T194015_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
CS_OFFI_SIR_NORM_2_20180725T200000_20180725T202320_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
SWH Averaging Status, Ocean SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
CS_OFFL_SIR_NOPM_2_20180725T204630_20180725T205221_C001	nore
CS_OEFL_SIR_NORM_2_20180725T211518_20180725T212038_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
CS_OFFI_SIR_NORM_2_20180725T213124_20180725T213250_C001 SWH Averaging Status, Ocean The SWH and Ocean Averaging Status Flags have been set for one	or
CS. OFFI. SIR NOPM 2 20180725T214448 20180725T221817 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_201807251222536_201807251223052_C001 lce Backscatter Averaging Status The lce Backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or in the local backscatter Averaging Status Flag has been set for one or i	nore
co_oppri_gir_noprw_z_z0100/251222555_20100/251225052_c001 lice backscatter Averaging Status records.	

CS_OFFL_SIR_NOPM_2_20180725T223734_20180725T224020_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_20180725T230815_20180725T231218_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_20180725T232124_20180725T233337_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_20180725T233623_20180725T235736_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_NOPN_2_20180725T082741_20180725T082808_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_NOPN_2_20180725T104540_20180725T104706_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_NOPR_2_20180725T020554_20180725T021035_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_NOPR_2_20180725T031903_20180725T032000_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_NOPR_2_20180725T042300_20180725T042317_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_NOPR_2_20180725T141656_20180725T141801_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_NOPR_2_20180725T163442_20180725T163539_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_NOPR_2_20180725T231218_20180725T232124_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	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.

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: