

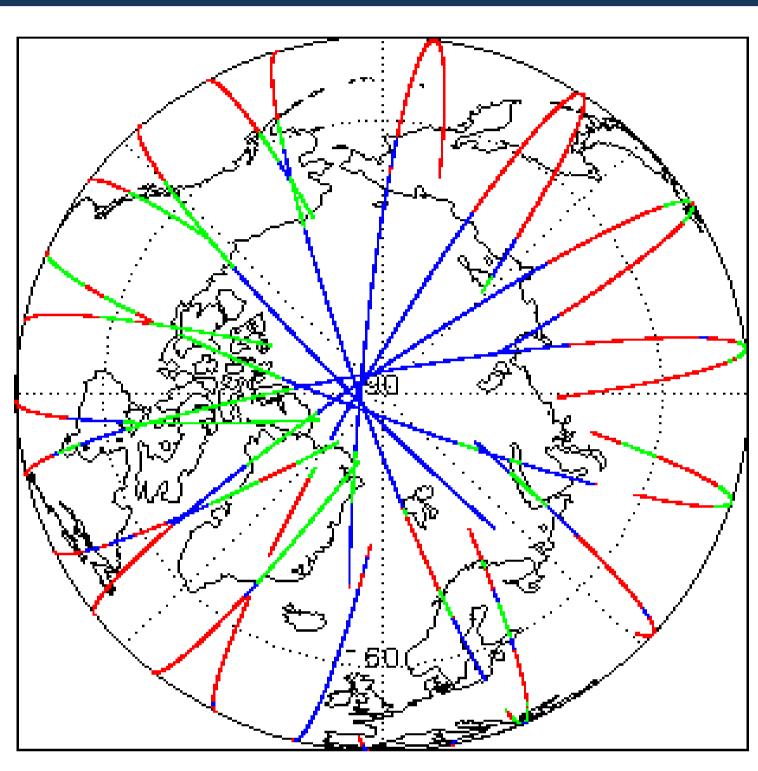
1. Overview

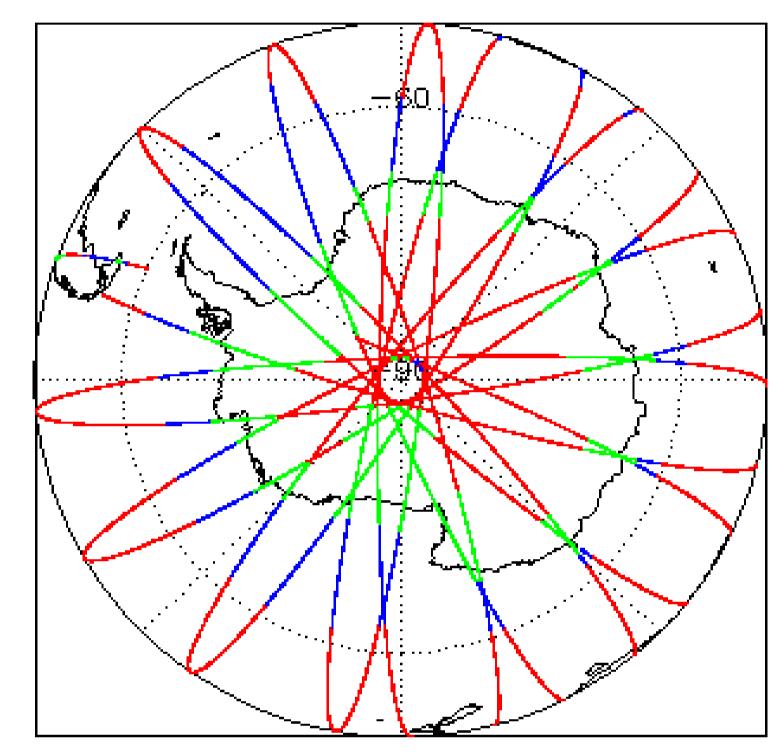
Report Production:	06-Jul-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOF L1B & L2 Science Data	

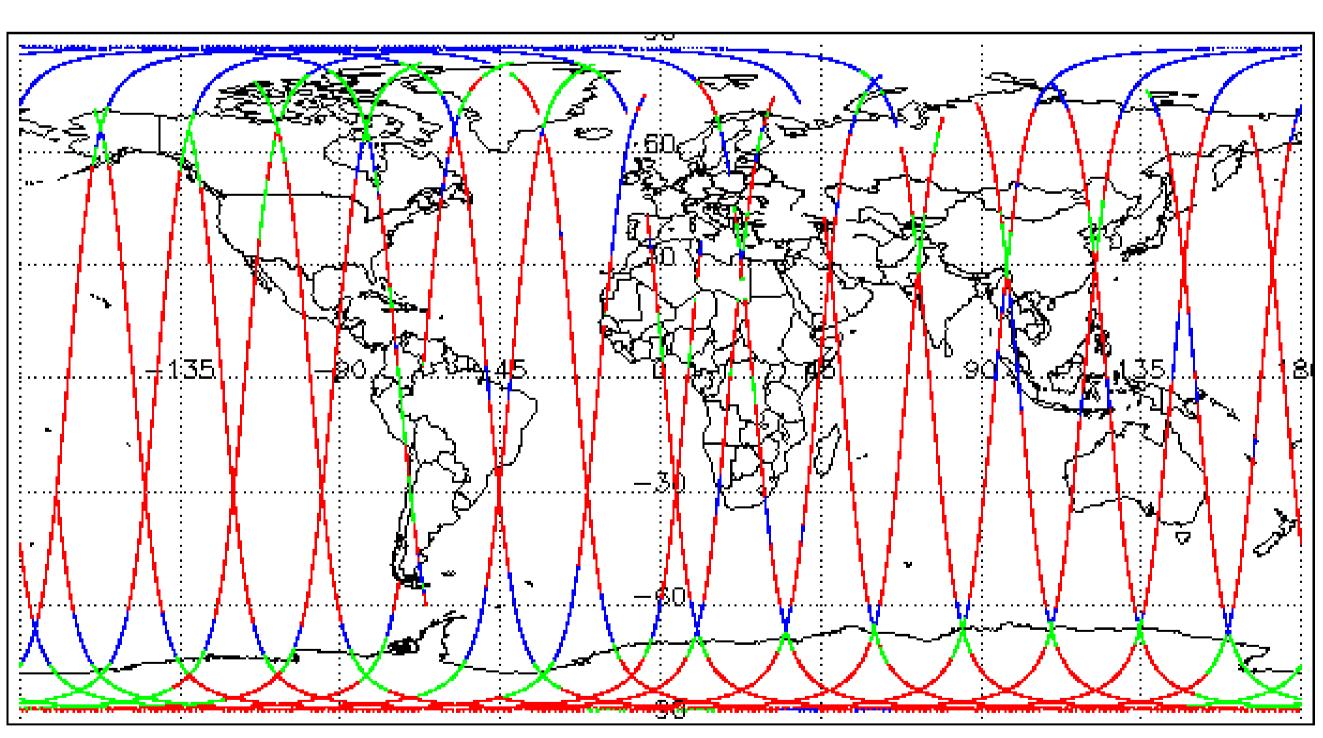
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 6.2

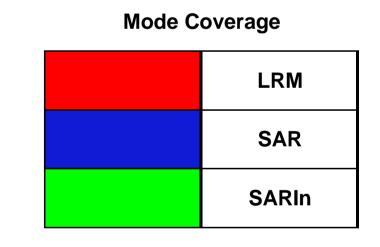
Mission / Instrument News		
02-Jul-2020	None	
03-Jul-2020	None	
04-Jul-2020	Nothing planned	

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
Star Tracker(s) in use:	Star Tracker 1

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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.

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

ProductTest FailedDescriptionCS_OFFL_SIR_NOPM1B_20200703T045251_20200703T045336_C001Power scaling errorThere 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:

14

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200703T041806_20200703T042730_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200703T130633_20200703T132817_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200703T155334_20200703T161034_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200703T163256_20200703T164321_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T044651_20200703T044828_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T062506_20200703T062939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T075836_20200703T075909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T094555_20200703T095017_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T161334_20200703T161553_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T174921_20200703T175424_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T202854_20200703T203012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200703T210428_20200703T210840_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200702T235727_20200703T000057_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200703T220913_20200703T221223_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.

Wind Model File Usage: This file is currently not included in all L2 products.

Number of products with errors:

0

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).

Currently, there are some common auxiliary correction errors 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.

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200703T081634_20200703T081816_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20200703T150454_20200703T152013_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPM_2_20200703T194145_20200703T194251_C001	iviean Sea Surrace (1), iviean Dynamic Topography (1), Total Geocentric Ocean	
CS_OFFL_SIR_NOPN_2_20200703T002901_20200703T003022_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T003531_20200703T003841_C001	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20200703T020953_20200703T021233_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T021434_20200703T022004_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) wean Sea Surface (1), меал Булатіс	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records neight (solution 1), the iviean Dynamic
CS_OFFL_SIR_NOPN_2_20200703T030528_20200703T031006_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
CS_OFFL_SIR_NOPN_2_20200703T034907_20200703T035143_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T044431_20200703T044540_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200703T062348_20200703T062502_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T062506_20200703T062939_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T070633_20200703T070822_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T071634_20200703T071857_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T080358_20200703T080708_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T094555_20200703T095017_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T102607_20200703T102940_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T111311_20200703T111411_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T120523_20200703T120843_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T121356_20200703T121521_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200703T125609_20200703T125729_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T135258_20200703T135406_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T153000_20200703T153152_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T161334_20200703T161553_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T174921_20200703T175424_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20200703T175427_20200703T175433_C001	Mean Dynamic Topography (1)	more records
CS_OFFL_SIR_NOPN_2_20200703T183904_20200703T184154_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T184816_20200703T185119_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T192911_20200703T193255_C001	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20200703T210428_20200703T210840_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1 GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200703T211906_20200703T212035_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T233805_20200703T233930_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20200703T234449_20200703T234755_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200703T043747_20200703T043954_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20200703T075910_20200703T080358_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200703T093556_20200703T094555_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200703T111654_20200703T112451_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200703T125729_20200703T130514_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200703T130533_20200703T130633_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20200703T143639_20200703T144346_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200703T155120_20200703T155334_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

CS_OFFL_SIR_NOPR_2_20200703T161553_20200703T162312_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

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_20200703T045251_20200703T045336_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.
- > OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

Number of products with errors:

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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200703T000907_20200703T002608_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T003022_20200703T003531_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T004159_20200703T011807_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T014010_20200703T014429_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T014526_20200703T020302_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T021233_20200703T021434_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T022205_20200703T023720_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T024336_20200703T025807_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T031045_20200703T032830_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T032951_20200703T034343_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T035143_20200703T035343_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T040054_20200703T041604_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T041806_20200703T042730_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T044540_20200703T044651_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T045423_20200703T050631_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T052949_20200703T053747_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been se for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T054031_20200703T055511_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T063213_20200703T070502_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have beer set for one or more records.

CS_OFFL_SIR_NOPM_2_20200703T070822_20200703T071031_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T071057_20200703T071634_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T072024_20200703T074426_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T081820_20200703T084349_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T085031_20200703T085506_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T085910_20200703T092627_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T095017_20200703T102225_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T102940_20200703T103514_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T103815_20200703T104300_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T112858_20200703T120214_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T120844_20200703T121356_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T121756_20200703T123540_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T123859_20200703T124354_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T125339_20200703T125350_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T130633_20200703T132817_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T132927_20200703T134038_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T134519_20200703T134843_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T134900_20200703T135258_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T135742_20200703T142402_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T142418_20200703T143120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T144346_20200703T145821_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T150454_20200703T152013_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T152223_20200703T152741_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T152800_20200703T153000_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T153828_20200703T155120_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200703T155334_20200703T161034_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

20 1 68 VON 2 - RANDOTT PRESCRIPTOR COLOR	CS_OFFL_SIR_NOPM_2_20200703T163256_20200703T164321_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Betteam Castly Code Office Service Se	CS_OFFL_SIR_NOPM_2_20200703T164501_20200703T165904_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Secretaria Control Administration Secretaria Control Secretaria	CS_OFFL_SIR_NOPM_2_20200703T170148_20200703T170652_C001		
23 DPIL BR NJPM 2 20000705117405 2000705117405 2011 Control Allered Region and Education County Control Allered Region County Co	CS_OFFL_SIR_NOPM_2_20200703T170716_20200703T170831_C001		
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22, OFFL_SIR_NOPM_2_200070511939_2020070119169_C001	CS_OFFL_SIR_NOPM_2_20200703T172441_20200703T172712_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Sedesceler Quality COCO alternate Range and Researcher Quality Regal have been affected in Range and Researcher Range and Researcher Quality Regal have been affected in Range and Researcher Range and Researcher Quality Regal and the COCO Afferted Range and Researcher Quality Regal and the COCO Afferted Range and Researcher Quality Regal and the COCO Afferted Range and Researcher Range a	CS_OFFL_SIR_NOPM_2_20200703T173835_20200703T174527_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_NOPH_2_20200703118215_20200703118266_C001 CS_OFFL_SR_NOPH_2_20200703118215_20200703118266_C001 CS_OFFL_SR_NOPH_2_20200703118266_C001 CS_OFFL_SR_NOPH_2_20200703118266_C001 CS_OFFL_SR_NOPH_2_20200703118266_C001 CS_OFFL_SR_NOPH_2_20200703118266_C001 CS_OFFL_SR_NOPH_2_20200703120386_C001 CS_OFFL_SR_NOPH_2_202007031	CS_OFFL_SIR_NOPM_2_20200703T181634_20200703T181934_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Eaccustate Coulty CS_OFF_SIR_NORM_2_2020/03519500_2020/03520195_2020 CS_OFF_SIR_NORM_2_2020/03519500_2020/03520195_2020 CS_OFF_SIR_NORM_2_2020/03519500_2020/03520195_2020 CS_OFF_SIR_NORM_2_2020/03519500_2020/03520195_2020 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_2020 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_2020 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_2020/03520195_2020 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/0352019500_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/03520195_2020/03520195_20200 CS_OFF_SIR_NORM_2_2020/03520195_2020/035219500_2020 CS_OFF_SIR_NORM_2_2020/03521219500_20200 CS_OFF_SIR_NORM_2_2020/03521219500_20200 CS_OFF_SIR_NORM_2_2020/03521219500_20200 CS_OFF_SIR_NORM_2_2020/03521219500_20200 CS_OFF_SIR_NORM_2_2020/03521219500_202000 CS_OFF_SIR_NORM_2_2020/03521219500_20200000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20200703T182131_20200703T183743_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flackscater Quality, COOG Allimeter Range and Backscater Quality Flags have been admissed to the COOG Allimeter Range and Backscater Quality Flags have been admissed to the COOG Allimeter Range and Backscater Quality Flags have been self-scater Quality. COOG Allimeter Range and Backscater Quality Flags have been self-scater Quality. COOG Allimeter Range Quality, COOG Allimeter Range and Backscater Quality Flags have been self-scater Quality. Plags have been self-scater Quality Plags have been self-scater Quality Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality Flags have been self-scater Quality. COOG Allimeter Range and Backscater Quality Flags have been self-scater Quality. COOG Allimeter Range and Backscater Quality Flags have been self-scater Quality. COOG Allimeter Range and Backscater Quality Flags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater Quality. Plags have been self-scater Quality. COOG Allimeter Range and Backscater	CS_OFFL_SIR_NOPM_2_20200703T184155_20200703T184608_C001		
and selectated Quality COCG Allimeter Range are Backacater Quality Flags have been set CS_OFFL_SIR_NOPM_2_20000703T201659_20200703T205222_C001 CS_OFFL_SIR_NOPM_2_20000703T201559_20200703T205222_C001 CS_OFFL_SIR_NOPM_2_20000703T201559_20200703T205284_C001 CS_OFFL_SIR_NOPM_2_20000703T201559_20200703T205284_C001 CS_OFFL_SIR_NOPM_2_20000703T20528_20200703T21659_C001 CS_OFFL_SIR_NOPM_2_20000703T20528_20200703T21659_C001 CS_OFFL_SIR_NOPM_2_20000703T215543_20200703T21659_C001 CS_OFFL_SIR_NOPM_2_20000703T215543_20200703T215644_C001 CS_OFFL_SIR_NOPM_2_20000703T215543_20200703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T215543_20200703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T215543_20200703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T215543_20200703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T21569_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T21569_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T21569_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_2000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T225842_000703T22680_C001 CS_OFFL_SIR_NOPM_2_20000703T235540_2000703T224448_C001 CS_OFFL_SIR_NOPM_2_20000703T235540_2000703T234448_C001 CS_OFFL_SIR_NOPM_2_20000703T235540_2000703T234448_C001 CS_OFFL_SIR	CS_OFFL_SIR_NOPM_2_20200703T185307_20200703T191832_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20200703T202528_20200703T202564_C001 CS_OFFL_SIR_NOPM_2_20200703T202528_20200703T210428_C001 CS_OFFL_SIR_NOPM_2_20200703T203228_20200703T210428_C001 CS_OFFL_SIR_NOPM_2_20200703T203228_20200703T210428_C001 CS_OFFL_SIR_NOPM_2_20200703T21755_20200703T215039_C001 CS_OFFL_SIR_NOPM_2_20200703T21755_20200703T215039_C001 CS_OFFL_SIR_NOPM_2_20200703T215143_20200703T215044_C001 CS_OFFL_SIR_NOPM_2_20200703T215143_20200703T215044_C001 CS_OFFL_SIR_NOPM_2_20200703T215593_20200703T215044_C001 CS_OFFL_SIR_NOPM_2_20200703T215983_20200703T2259842 C001 CS_OFFL_SIR_NOPM_2_20200703T2215983_20200703T2259842 C001 CS_OFFL_SIR_NOPM_2_20200703T2215983_20200703T2259842 C001 CS_OFFL_SIR_NOPM_2_20200703T2215983_20200703T2259842 C001 CS_OFFL_SIR_NOPM_2_20200703T2215983_20200703T2259842 C001 CS_OFFL_SIR_NOPM_2_20200703T2215983_20200703T2259842 C001 CS_OFFL_SIR_NOPM_2_20200703T2215983_20200703T2259842 C001 CS_OFFL_SIR_NOPM_2_20200703T2259842 C000 CS_OFFL_SIR_NOPM_2_20200703T235930_20200703T235357_C001 CS_OFFL_SIR_NOPM_2_20200703T235930_20200703T2354448_C001 CS_	CS_OFFL_SIR_NOPM_2_20200703T195300_20200703T201719_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sockstater Quality CS_OFFL_SIR_NOPM_2_20200703T203228_20200703T210428_C001 CS_OFFL_SIR_NOPM_2_20200703T203228_20200703T215039_C001 CS_OFFL_SIR_NOPM_2_20200703T215153_20200703T215039_C001 CS_OFFL_SIR_NOPM_2_20200703T215153_20200703T215039_C001 CS_OFFL_SIR_NOPM_2_20200703T215153_20200703T215039_C001 CS_OFFL_SIR_NOPM_2_20200703T215153_20200703T215644_C001 CS_OFFL_SIR_NOPM_2_20200703T215153_20200703T215644_C001 CS_OFFL_SIR_NOPM_2_20200703T215039_2001 CS_OFFL_SIR_NOPM_2_20200703T215039_2001 CS_OFFL_SIR_NOPM_2_20200703T215039_2001 CS_OFFL_SIR_NOPM_2_20200703T21503_20200703T220801_C001 CS_OFFL_SIR_NOPM_2_20200703T21503_20200703T220801_C001 CS_OFFL_SIR_NOPM_2_20200703T222523_20200703T220801_C001 CS_OFFL_SIR_NOPM_2_20200703T222523_20200703T225001 CS_OFFL_SIR_NOPM_2_20200703T222523_20200703T225001 CS_OFFL_SIR_NOPM_2_20200703T222523_20200703T225001 CS_OFFL_SIR_NOPM_2_20200703T222524_20200703T225001 CS_OFFL_SIR_NOPM_2_20200703T222504_20001 CS_OFFL_SIR_NOPM_2_20200703T222504_20001 CS_OFFL_SIR_NOPM_2_20200703T222504_20001 CS_OFFL_SIR_NOPM_2_20200703T222504_20001 CS_OFFL_SIR_NOPM_2_20200703T222504_20001 CS_OFFL_SIR_NOPM_2_20200703T223505_2001 CS_OFFL_SIR_NOPM_2_20200703T223505_2001 CS_OFFL_SIR_NOPM_2_20200703T223505_2001 CS_OFFL_SIR_NOPM_2_20200703T223505_2001 CS_OFFL_SIR_NOPM_2_20200703T223505_2001 CS_OFFL_SIR_NOPM_2_20200703T223505_2001 CS_OFFL_SIR_NOPM_2_20200703T22500_2000703T22500_2001 CS_OFFL_SIR_NOPM_2_20200703T22500_2000703T225000_2001 CS_OFFL_SIR_NOPM_2_20200703T22500_2000703T225000_2001 CS_OFFL_SIR_NOPM_2_20	CS_OFFL_SIR_NOPM_2_20200703T201959_20200703T202522_C001		1
and Backscater Quality. COGO Allimeter Range and Backscater Quality. Cogo CS_OFFL_SIR_NOPM_2_20200703T21595_20200703T215939_C001 CS_OFFL_SIR_NOPM_2_20200703T215143_20200703T215939_C001 CS_OFFL_SIR_NOPM_2_20200703T215143_20200703T215644_C001 CS_OFFL_SIR_NOPM_2_20200703T215143_20200703T215644_C001 CS_OFFL_SIR_NOPM_2_20200703T215143_20200703T215644_C001 CS_OFFL_SIR_NOPM_2_20200703T215983_20200703T225644_C001 CS_OFFL_SIR_NOPM_2_20200703T215983_20200703T220801_C001 CS_OFFL_SIR_NOPM_2_20200703T215983_20200703T220801_C001 CS_OFFL_SIR_NOPM_2_20200703T225862_20200703T224529_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T224529_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_202000703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T235942_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_202000703T235942_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_202000703T235942_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_202000703T235950_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_202000703T23590_20200703T235950_C001 CS_OFFL_SIR_NOPM_2_202000703T23590_20200703T235950_C001 CS_OFFL_SIR_NOPM_2_202000703T23590_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_202000703T23590_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_202000703T23590_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_202000703T23590_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_202000703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_202000703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_202000703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_20200703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_20200703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_20200703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_20200703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_20200703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_20200703T025690_20200703T025699_C001 CS_OFFL_SIR_NOPM_2_20200703	CS_OFFL_SIR_NOPM_2_20200703T202529_20200703T202854_C001	_	
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20200703T215953_20200703T220801_C001 CS_OFFL_SIR_NOPM_2_20200703T221223_20200703T224529_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225862_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225862_20200703T235357_C001 CS_OFFL_SIR_NOPM_2_20200703T223866_20200703T235357_C001 CS_OFFL_SIR_NOPM_2_20200703T223866_20200703T235357_C001 CS_OFFL_SIR_NOPM_2_20200703T223830_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T235330_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T253530_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T253530_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T253530_20200703T235448_C001 CS_OFFL_SIR_NOPM_2_20200703T253530_20200703T235448_C001 CS_OFFL_SIR_NOPM_2_20200703T253530_20200703T025989_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025989_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102609_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102	CS_OFFL_SIR_NOPM_2_20200703T203228_20200703T210428_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20200703T215953_20200703T220801_C001 CS_OFFL_SIR_NOPM_2_20200703T221223_20200703T224529_C001 CS_OFFL_SIR_NOPM_2_20200703T221223_20200703T224529_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T235856_20200703T235357_C001 CS_OFFL_SIR_NOPM_2_20200703T235856_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T2353590_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235350_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235300_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235300_20200703T2354448_C001 CS_OFFL_SIR_NOPM_2_20200703T235440_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T235440_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T235440_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T205930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102690_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_202	CS_OFFL_SIR_NOPM_2_20200703T212755_20200703T215039_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20200703T221223_20200703T224529_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001 CS_OFFL_SIR_NOPM_2_20200703T232856_20200703T23537_C001 CS_OFFL_SIR_NOPM_2_20200703T232856_20200703T23537_C001 CS_OFFL_SIR_NOPM_2_20200703T233930_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T2355140_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CCOOG Altimeter Range Quality, OCOG Backscatter Quality, COOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20200703T215143_20200703T215644_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20200703T232856_20200703T233537_C001 CS_OFFL_SIR_NOPM_2_20200703T233930_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T233930_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T1025959_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CCOCG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOCG Altimeter Range and Backscatter Quality	CS_OFFL_SIR_NOPM_2_20200703T215953_20200703T220801_C001		, ,
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20200703T232856_20200703T233537_C001 CS_OFFL_SIR_NOPM_2_20200703T232856_20200703T233537_C001 CS_OFFL_SIR_NOPM_2_20200703T233930_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T233930_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T1025959_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T102940_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T110607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T110607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T110607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T110607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T110607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T110607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T	CS_OFFL_SIR_NOPM_2_20200703T221223_20200703T224529_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20200703T233930_20200703T234448_C001 CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPM_2_20200703T110432_20200703T110617_C001 CCS_OFFL_SIR_NOPM_2_20200703T110432_20200703T110617_C001 CCS_OFFL_SIR_NOPM_2_20200703T1104	CS_OFFL_SIR_NOPM_2_20200703T225842_20200703T225942_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T025930_20200703T025959_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 Backscatter Quality for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPM_2_20200703T1102607_20200703T110617_C001 CS_OFFL_SIR_NOPM_2_20200703T110432_20200703T110617_C001	CS_OFFL_SIR_NOPM_2_20200703T232856_20200703T233537_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20200703T102607_20200703T102940_C001 CS_OFFL_SIR_NOPN_2_20200703T1102607_20200703T1102940_C001 CS_OFFL_SIR_NOPN_2_20200703T110432_20200703T110617_C001 CS_OFFL_SIR_NOPN_2_20200703T110432_20200703T110617_C001 CS_OFFL_SIR_NOPN_2_20200703T110432_20200703T110617_C001 CS_OFFL_SIR_NOPN_2_20200703T110432_20200703T110617_C001	CS_OFFL_SIR_NOPM_2_20200703T233930_20200703T234448_C001		
CS_OFFL_SIR_NOPN_2_20200703T025930_20200703T025959_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backsca	CS_OFFL_SIR_NOPM_2_20200703T235140_20200704T001301_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20200703T102607_20200703T102940_C001 Backscatter Quality OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPN_2_20200703T025930_20200703T025959_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US OFFI SIR NOPN / 20200/031110432 20200/03111061/ C001	CS_OFFL_SIR_NOPN_2_20200703T102607_20200703T102940_C001		
	CS_OFFL_SIR_NOPN_2_20200703T110432_20200703T110617_C001	•	·

CS_OFFL_SIR_NOPN_2_20200703T192707_20200703T192829_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T012955_20200703T014009_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T044828_20200703T045005_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T155120_20200703T155334_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below. The table provides the full list of products flagged.

- > Ocean Altimeter Range, SSHA, SWH and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over sea ice.
- > OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

Number of products with errors:

80

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200703T000741_20200703T000907_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T002901_20200703T003022_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T021434_20200703T022004_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T030528_20200703T031006_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T035845_20200703T040005_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T044651_20200703T044828_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T052634_20200703T052949_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T053828_20200703T053936_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T060450_20200703T060837_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T062506_20200703T062939_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T075836_20200703T075909_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T080358_20200703T080708_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T081143_20200703T081559_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T084602_20200703T084743_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T084852_20200703T085031_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T085625_20200703T085748_C001	PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T102607_20200703T102940_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T103514_20200703T103630_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T105317_20200703T105505_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPN_2_20200703T110432_20200703T110617_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T121356_20200703T121521_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T125609_20200703T125729_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T135258_20200703T135406_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T152043_20200703T152223_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T153000_20200703T153152_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T161334_20200703T161553_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T162924_20200703T163255_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T170001_20200703T170148_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T172349_20200703T172441_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T172713_20200703T173247_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T173712_20200703T173835_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T174546_20200703T174709_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T174921_20200703T175424_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T181056_20200703T181357_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T192707_20200703T192829_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T192911_20200703T193255_C001	TANO BACKSCANDI UMANIV PLEWI UMUM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T194251_20200703T194413_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T201844_20200703T201958_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T210428_20200703T210840_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T220801_20200703T220913_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T224529_20200703T224701_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T224745_20200703T224918_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T230118_20200703T230241_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T230659_20200703T230716_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20200703T233805_20200703T233930_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPN_2_20200703T234449_20200703T234755_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T002608_20200703T002901_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T003841_20200703T004158_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T020302_20200703T020952_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T022005_20200703T022205_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T025807_20200703T025930_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T032830_20200703T032951_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T034343_20200703T034907_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T043747_20200703T043954_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T045336_20200703T045423_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T053936_20200703T054030_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T055511_20200703T060057_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T060101_20200703T060248_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T060252_20200703T060326_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T070502_20200703T070633_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T102225_20200703T102607_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T103630_20200703T103815_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T110958_20200703T111306_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T125351_20200703T125609_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T125729_20200703T130514_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T134039_20200703T134234_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T135407_20200703T135742_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T143639_20200703T144346_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T153152_20200703T153828_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T155120_20200703T155334_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T181527_20200703T181633_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20200703T201719_20200703T201844_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T203012_20200703T203228_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T215040_20200703T215143_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T215644_20200703T215829_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T220913_20200703T221223_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T230048_20200703T230118_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T230241_20200703T230316_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T232614_20200703T232855_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200703T233537_20200703T233805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

Currently, there are several common flags raised in the Level 2 products, which are summarised below.

> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.

Number of products with errors: 168

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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 falling at ocean/ land boundaries, but this is expected.

Number of products with errors: 53

L2 Retracking Flags (20Hz, PLRM)

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

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products NOPR and NOPN products over sea ice, but this is to be expected.

0

Number of products with errors: 131

6. NOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	138	138	4	134	0
SIR_NOPR1B	92	92	0	92	0
SIR_NOPN1B	98	98	3	95	0
SIR_NOPM_2	138	138	91	47	0
SIR_NOPR_2	92	92	24	68	0
SIR_NOPN_2	98	98	42	56	0

6.1 QCC Errors

Number of QCC reports with errors:

6.2 QCC Warnings

Number of QCC reports with warnings 1611

Total number of occurrences of each warning

			Total	number of occurrences	s or each warning		
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	DRBSZOPOEPNCDF
SIR_NOPM1B	134	0	0	0	0	0	0
SIR_NOPM_2	0	38	35	1	38	0	33
SIR_NOPN1B	95	0	0	0	0	0	0
SIR_NOPN_2	0	6	29	7	22	25	16
SIR_NOPR1B	92	0	0	0	0	0	0
SIR_NOPR_2	0	39	38	1	35	31	20

Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	29	0	0	0	0	23
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	0	27	0	34	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	2	0	44	0	50	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	6	24	0	5	33
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	29	9	41	46	24	28

SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	43	0	2	56	38	7	36
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Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SCSTODHRNCDF	SCSTODNCDF	-
SIR_NOPM1B	0	0	0	1	0	0	
SIR_NOPM_2	0	3	0	1	0	0	
SIR_NOPN1B	0	0	1	0	48	0	
SIR_NOPN_2	32	12	0	1	0	0	
SIR_NOPR1B	0	0	0	0	92	1	
SIR_NOPR_2	47	1	0	0	0	0	

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch (DBL ASC, rounded up to 0.1)			
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter			
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter			

7.3 Missing QCC Reports

Number of products with missing QCC reports: