

<u>10/11/2019</u>





1. Overview

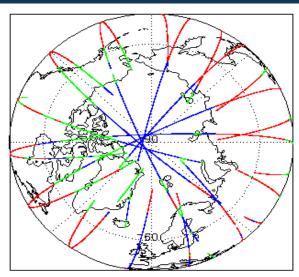
Report Production:	11-Nov-2019	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

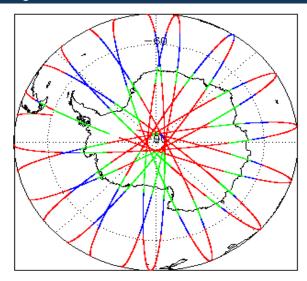
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

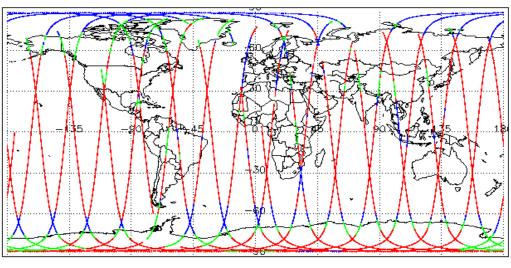
Mission / Instrument News		
09-Nov-2019	None	
10-Nov-2019	None	

11-Nov-2019 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).

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 pert 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:

0

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:

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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:

22

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20191110T031501_201911110T033541_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20191110T102853_20191110T110054_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20191110T161416_201911110T163124_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20191110T211526_20191110T214601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T010947_20191110T011037_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T093247_20191110T093313_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T143005_20191110T143321_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T160859_20191110T161012_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T161149_20191110T161416_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T174821_20191110T175043_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T192200_20191110T192218_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T192804_20191110T193240_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T222850_20191110T223055_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20191110T224039_20191110T224138_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T020903_20191110T021459_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T051400_20191110T051523_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T120310_20191110T120656_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T125428_20191110T130442_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T145343_20191110T145423_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T164552_20191110T164638_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T171908_20191110T172757_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20191110T233954_20191110T234406_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:

0

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:

0

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:

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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.
- > 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_NOPN_2_20191110T002031_20191110T002350_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_20191110T002915_20191110T003040_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_20191110T020725_20191110T020857_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_20191110T025053_20191110T025152_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_20191110T034504_20191110T034715_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_20191110T042437_20191110T042739_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_20191110T042851_20191110T043106_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_20191110T051538_20191110T051709_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_20191110T060532_20191110T060930_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_20191110T070455_20191110T070653_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_20191110T110058_20191110T110322_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_20191110T115330_20191110T115456_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_20191110T120006_20191110T120310_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
	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean	
CS_OFFL_SIR_NOPN_2_20191110T133357_20191110T133655_C001	Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	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_20191110T133908_20191110T134428_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_20191110T142334_20191110T142430_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_20191110T143005_20191110T143321_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_20191110T151344_20191110T151619_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	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_20191110T160859_20191110T161012_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_20191110T161149_20191110T161416_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_20191110T164638_20191110T164739_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_20191110T164846_20191110T165354_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_20191110T174821_20191110T175043_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_20191110T183100_20191110T183252_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_20191110T192804_20191110T193240_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_20191110T201039_20191110T201217_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_20191110T210944_20191110T211526_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_20191110T215031_20191110T215414_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_20191110T223807_20191110T223857_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_20191110T233002_20191110T233318_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_20191110T233830_20191110T233954_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_20191110T011253_20191110T012050_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_20191110T025152_20191110T025735_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_20191110T043106_20191110T043756_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_20191110T060930_20191110T061453_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_20191110T094323_20191110T094410_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_20191110T192345_20191110T192804_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_20191110T210112_20191110T210944_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_20191110T224138_20191110T224926_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

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.6 L2 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:

78

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20191109T235549_20191110T001715_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_20191110T002350_20191110T002503_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_20191110T003450_20191110T004420_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_20191110T004607_20191110T005213_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_20191110T005344_20191110T005842_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_20191110T012117_20191110T015556_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_20191110T015856_20191110T020401_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_20191110T020421_20191110T020725_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_20191110T021459_20191110T024611_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_20191110T030009_20191110T030046_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_20191110T030053_20191110T031345_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_20191110T031501_20191110T033541_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_20191110T033751_20191110T034258_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_20191110T034305_20191110T034312_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_20191110T035240_20191110T040235_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_20191110T040854_20191110T042437_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_20191110T044306_20191110T045845_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_20191110T050024_20191110T051400_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_20191110T051709_20191110T052209_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_20191110T052249_20191110T052352_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_20191110T053046_20191110T053327_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_20191110T053353_20191110T055231_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.

Dec. 67FL SER JOHN 2 20091107018010 20091107018010 20091 CR. GETTL SER JOHN 2 20091107018010 20091107018010 20091 CR. GETTL SER JOHN 3 2009110701802 20091107018010 20091 CR. GETTL SER JOHN 3 2009110701802 20091107018001 20091 CR. GETTL SER JOHN 3 2009110701802 20091107018001 20091 CR. GETTL SER JOHN 3 20091107018001 2009110718001 20091 CR. GETTL SER JOHN 3 20091107018001 2009110718001 20091 CR. GETTL SER JOHN 3 20091107018000 2009110718000 20091 CR. GETTL SER JOHN 3 2009110718000 200910 CR. GETTL SER JOHN 3 2009110718000 2009110718000 2009110718000 2009110718000 2009110718000 2009110718000 2009110718000 2009	CS_OFFL_SIR_NOPM_2_20191110T055450_20191110T060308_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.
Backstatin Caulty CB CRFF, SRR NORM 2, 2019110702020 20191107072020 C019 CB CRFF, SRR NORM 2, 2019110702020 20191107072020 C019 CB CRFF, SRR NORM 2, 2019110702020 2019110702030 C019 CB CRFF, SRR NORM 2, 2019110702020 2019110702000 C019 CB CRFF, SRR NORM 2, 2019110702020 2019110702000 C019 CB CRFF, SRR NORM 2, 201911070200 C01911070200 C019 CB CRFF, SRR NORM 2, 201911070200 C01911070200 C019 CB CRFF, SRR NORM 2, 201911070200 C01911070200 C01911070200 C01911070200 C01911070200 C01911070200 C01911070200 C01911070200 C0191107020 C01911070200 C0191107020 C01911070200 C01911070	CS_OFFL_SIR_NOPM_2_20191110T063123_20191110T065242_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CEL CREFL SIR NORM 2 20191110100021 20191101100222 20191101100221 20191101100222 20191101100221 20191101100222 20191101100221 20191101100222 20191101100221 20191101100222 20191101100221 20191101100222 20191101100221 20191101100222 20191101100221 20191101100222 20191101100221 20191101100222 20191101100221 20191101100221 20191101100222 20191101100221 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110022 2019110110000000000	CS_OFFL_SIR_NOPM_2_20191110T065748_20191110T070126_C001		
Compact Comp	CS_OFFL_SIR_NOPM_2_20191110T070840_20191110T073628_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sell-CPFL_SR_NOPM_2_20191110T108051_2019110T1080500_0031 CS_OPFL_SR_NOPM_2_20191110T08051_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T08051_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T08051_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T080501_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T080501_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T080501_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T080501_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T080501_2019110T080400_00391 CS_OPFL_SR_NOPM_2_20191110T080501_2019110T080100_00391 CS_OPFL_SR_NOPM_2_20191110T1080501_2019110T108100_00391 CS_OPFL_SR_NOPM_2_20191110T1080501_2019110T108100_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T108100_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T108100_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T1080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T1080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T1080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T1080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T11080501_00391 CS_OPFL_SR_NOPM_2_20191110T1080501_2019110T11080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T11080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T11080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T11080501_00391 CS_OPFL_SR_NOPM_2_2019110T1080501_2019110T1108	CS_OFFL_SIR_NOPM_2_20191110T075927_20191110T080611_C001		
Source Flags (NoPel 2 20181191708444 201911101708444 20191101708444 20101 COGO Almeeter Range and Backscatter Quality Flags have been set and source or more records. CS_OFFL_SR_NOPel_2_20191101708452_201911017010115_COGO Almeeter Range and Backscatter Quality Flags have been set and Rossouther Quality COGO Almeeter Range and Backscatter Quality Flags have been set and Rossouther Quality Flags have been set a	CS_OFFL_SIR_NOPM_2_20191110T080741_20191110T083208_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Source-Line Coulty Get _ OPPL_SIR_NOPM_2_20191107109432_2019110710133_2001 CitOPPL_SIR_NOPM_2_2019110710133_2010 CitOPPL_SIR_NOPM_2_2019110710133_2010 CitOPPL_SIR_NOPM_2_2019110710133_2010 CitOPPL_SIR_NOPM_2_2019110710133_2010 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107113201 CitOPPL_SIR_NOPM_2_20191107113353_20191107133023_20101 CitOPPL_SIR_NOPM_2_2019110713355_20191107133023_20101 CitOPPL_SIR_NOPM_2_2019110713355_20191107133035_20101 CitOPPL_SIR_NOPM_2_2019110713355_20191107133035_20191107133035_20101 CitOPPL_SIR_NOPM_2_2019110713355_20191107133035_201911071330	CS_OFFL_SIR_NOPM_2_20191110T083531_20191110T084039_C001		
and Backscatter Causily, COCA Affinited Range and Backscatter Causily, COCA Affinited Range and Backscatter Causily (Figs have been Affinited Range and Backscatter Causily). CoCA Affinited Range and Backscatter Causily (Figs have been Affinited Range and Backscatter Causily). CoCA Affinited Range and Backscatter Causily (Figs have been Affinited Range and Backscatter Causily). COCA Affinited Range Causily, COCA Affinited Range and Backscatter Causily (Figs have been Affinited Range and Backscatter Causily). COCA Affinited Range Causily, COCA Affinited Range Causily, COCA Affinited Range and Backscatter Causily (Figs have been Affinited Range Causily). COCA Affinited Range Causily, COCA A	CS_OFFL_SIR_NOPM_2_20191110T084046_20191110T084414_C001		
and the OCOG Affirmeter Range and Backscatter Quality Flags have been active Range and Backscatter Quality Flags have been set to one of more records. OS_OFFL_SIR_NOPM_2_20191110T10509_2019110T11054_C001 OS_OFFL_SIR_NOPM_2_20191110T110552_20191110T11054_C001 OS_OFFL_SIR_NOPM_2_20191110T110552_20191110T11054_C001 OS_OFFL_SIR_NOPM_2_20191110T110552_20191110T111054_C001 OS_OFFL_SIR_NOPM_2_20191110T111055_20191110T111054_C001 OS_OFFL_SIR_NOPM_2_20191110T111055_20191110T111054_C001 OS_OFFL_SIR_NOPM_2_20191110T111055_20191110T111054_C001 OS_OFFL_SIR_NOPM_2_20191110T111055_20191110T111054_C001 OS_OFFL_SIR_NOPM_2_20191110T11055_20191110T11054_C001 OS_OFFL_SIR_NOPM_2_20191110T11055_20191110T11054_C001 OS_OFFL_SIR_NOPM_2_20191110T11055_20191110T11054_C001 OS_OFFL_SIR_NOPM_2_20191110T11055_20191110T120000_C001 OS_OFFL_SIR_NOPM_2_20191110T11054_20191110T130032_C001 OS_OFFL_SIR_NOPM_2_20191110T130032_C001 OS_OFFL_SIR_NOPM_2	CS_OFFL_SIR_NOPM_2_20191110T084832_20191110T092123_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_2019110T107853_2019110T11054_C001 CS_OFFL_SIR_NOPM_2_2019110T11356_20191110T11054_C001 CS_OFFL_SIR_NOPM_2_2019110T11356_20191110T11901_C001 CS_OFFL_SIR_NOPM_2_2019110T11356_20191110T11902_C001 CS_OFFL_SIR_NOPM_2_20191110T11356_20191110T11902_C001 CS_OFFL_SIR_NOPM_2_20191110T11356_20191110T119006_C001 CS_OFFL_SIR_NOPM_2_20191110T11356_20191110T119006_C001 CS_OFFL_SIR_NOPM_2_20191110T11356_20191110T12006_C001 CS_OFFL_SIR_NOPM_2_20191110T13565_20191110T12006_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T12006_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T130586_20191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T13092_C0191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T13092_C0191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T13092_C0191110T13092_C001 CS_OFFL_SIR_NOPM_2_20191110T131092_C0191110T13093_C001 CS_OFFL_SIR_NOPM_2_20191110T131092_C0191110T13093_C001 CS_OFFL_SIR_NOPM_2_20191110T131092_C0191110T13093_C001 CS_OFFL_SIR_NOPM_2_20191110T131092_C0191110T13093_C001 CS_OFFL_SIR_NOPM_2_20191110T131092_C0191110T13093_C001 CS_OFFL_SIR_NOPM_2_20191110T131092_C0191110T13293_C001 CS_OFFL_SIR_NOPM_2_20191110T131093_C001 CS_OFFL_SIR_NOPM_2_20191110T151093_C001 CS_OFFL_S	CS_OFFL_SIR_NOPM_2_20191110T100721_20191110T101103_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 addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Flags have been addressed from the COOS Allimeter Range and Backscater Quality Fl	CS_OFFL_SIR_NOPM_2_20191110T101530_20191110T102112_C001		
and flasociater Quality, OCOG Altmeter Range and Backscatter Quality Flags have been after a common and process of the com	CS_OFFL_SIR_NOPM_2_20191110T102853_20191110T110054_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 CS_OFFL_SIR_NOPM_2_20191110T119556_20191110T120006_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T124114_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T124114_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T124114_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T130932_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T130932_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T130932_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T130932_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T130932_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T130932_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T130932_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T13066_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T13066_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T13066_C001 CS_OFFL_SIR_NOPM_2_20191110T13066_20191110T13066_C001 CS_OFFL_SIR_NOPM_2_20191110T13666_20191110T13066_C001 CS_OFFL_SIR_NOPM_2_20191110T13666_C001 CS_OFFL_SIR_NOPM_2_20191110T13666_C001 CS_OFFL_SIR_NOPM_2_20191110T13666_C001 CS_OFFL_SIR_NOPM_2_20191110T13666_C001 CS_OFFL_SIR_NOPM_2_20191110T13666_C001 CS_OFFL_SIR_NOPM_2_20191110T13666_C001 CS_OFFL_SIR_NOPM_2_20191110T15666_C001 CS_O	CS_OFFL_SIR_NOPM_2_20191110T111355_20191110T111501_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20191110T120559_2019110T124114_C001 CS_OFFL_SIR_NOPM_2_20191110T120559_20191110T130923_C001 CS_OFFL_SIR_NOPM_2_20191110T130442_20191110T130923_C001 CS_OFFL_SIR_NOPM_2_20191110T130442_20191110T130923_C001 CS_OFFL_SIR_NOPM_2_20191110T13002_20191110T130923_C001 CS_OFFL_SIR_NOPM_2_20191110T13002_20191110T13093_C001 CS_OFFL_SIR_NOPM_2_20191110T13002_20191110T130908_C001 CS_OFFL_SIR_NOPM_2_20191110T13055_20191110T130908_C001 CS_OFFL_SIR_NOPM_2_20191110T13057_C001 CS_OFFL_SIR_NOPM_2_20191110T13057_C001 CS_OFFL_SIR_NOPM_2_20191110T13057_C001 CS_OFFL_SIR_NOPM_2_20191110T13057_C001 CS_OFFL_SIR_NOPM_2_20191110T151018_C00191110T15073_C001 CS_OFFL_SIR_NOPM_2_20191110T151018_20191110T15073_C001 CS_OFFL_SIR_NOPM_2_20191110T151018_20191110T150008_C001 CS_OFFL_SIR_NOPM_2_20191110T151018_C00191110T150008_C001 CS_OFFL_SIR_NOPM_2_20191110T151018_C00191110T150008_C001 CS_OFFL_SIR_NOPM_2_20191110T151018_C00191110T150008_C001 CS_OFFL_SIR_NOPM_2_20191110T150008_C00191110T150008_C001 CS_OFFL_SIR_NOPM_2_20191110T151018_C00191110T150008_C001 CS_OFFL_SIR_NOPM_2_20191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T150008_C00191110T15000	CS_OFFL_SIR_NOPM_2_20191110T112855_20191110T114923_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 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_20191110T13002_20191110T132843_C001 CS_OFFL_SIR_NOPM_2_20191110T133655_20191110T133908_C001 CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_C001 CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_C001 CS_OFFL_SIR_NOPM_2_20191110T14457_20191110T145343_C001 CS_OFFL_SIR_NOPM_2_20191110T145457_20191110T145343_C001 CS_OFFL_SIR_NOPM_2_20191110T145423_20191110T150737_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151818_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T152339_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T152339_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T152339_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T152338_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_	CS_OFFL_SIR_NOPM_2_20191110T115456_20191110T120006_C001	9	
and Backscatter Quality, COG Altimeter Range and Backscatter Quality Flags have been at the COG Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T14214_C001 CS_OFFL_SIR_NOPM_2_20191110T143457_20191110T145433_C001 CS_OFFL_SIR_NOPM_2_20191110T145453_20191110T150737_C001 CS_OFFL_SIR_NOPM_2_20191110T145423_20191110T150737_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T152303_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_2019111	CS_OFFL_SIR_NOPM_2_20191110T120656_20191110T124114_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 at the CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20191110T133685_20191110T133908_C001 CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_C001 CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_C001 CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_C001 CS_OFFL_SIR_NOPM_2_20191110T143457_20191110T143434_C001 CS_OFFL_SIR_NOPM_2_20191110T143457_20191110T145343_C001 CS_OFFL_SIR_NOPM_2_20191110T145423_20191110T150737_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T15233_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T15233_20191110T15233_C001 CS_OFFL_SIR_NOPM_2_20191110T15233_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T15233_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T15233_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T15233_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154038_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154038_20191110T154038_C001 CS_OFFL_SIR_NOPM_2	CS_OFFL_SIR_NOPM_2_20191110T130442_20191110T130923_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191110T133938_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_C001 CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_C001 CS_OFFL_SIR_NOPM_2_20191110T143457_20191110T145343_C001 CS_OFFL_SIR_NOPM_2_20191110T143457_20191110T145343_C001 CS_OFFL_SIR_NOPM_2_20191110T145423_20191110T150737_C001 CS_OFFL_SIR_NOPM_2_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151819_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151815_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T15239_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T15239_20191110T15503_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T154038_C001 CS_OFFL_	CS_OFFL_SIR_NOPM_2_20191110T131002_20191110T132843_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, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 Altimeter Range and Backscatter Quality, OCOG Altimeter Range Rouality, OCOG Altimeter Range Quality, OCOG Altimeter Range Rouality, OCOG Altimeter Range Ro	CS_OFFL_SIR_NOPM_2_20191110T133655_20191110T133908_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_NOPM_2_20191110T145423_20191110T150737_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CCOG Altimeter Range and Backscatter Quality Set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20191110T134641_20191110T142124_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_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T15520	CS_OFFL_SIR_NOPM_2_20191110T143457_20191110T145343_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T152318_C001 CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T154038_C001 CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T15203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T154149_C001 CS_OFFL_SIR_NOPM_2_20191110T161012_20191110T161149_C001 CCG_Altimeter Range Quality, OCOG_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. CCG_OFFL_SIR_NOPM_2_20191110T154032_20191110T154038_C001 CCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCG_OFFL_SIR_NOPM_2_20191110T154038_C001 CCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCG_OFFL_SIR_NOPM_2_20191110T154038_C001 CCG_Altimeter Range Quality, OCOG_Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20191110T145423_20191110T150737_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Ocean Altimeter Range, SSHA, SWH 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 Altimeter Range and Backscatter Quality, OCOG Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20191110T151619_20191110T151816_C001		
CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T154038_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. 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. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20191110T151945_20191110T152318_C001		
CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_NOPM_2_20191110T152539_20191110T154038_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20191110T154240_20191110T155203_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20191110T161012_20191110T161149_C001		

CS_OFFL_SIR_NOPM_2_20191110T161416_20191110T163124_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_20191110T165747_20191110T170219_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_20191110T170518_20191110T171908_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_20191110T175444_20191110T175617_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_20191110T175741_20191110T180452_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_20191110T180613_201911110T182918_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_20191110T183252_20191110T184116_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_20191110T184444_201911110T190937_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_20191110T194132_20191110T200803_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_20191110T201217_201911110T201337_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_20191110T201503_201911110T201919_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_20191110T202413_20191110T205020_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_20191110T205026_20191110T205225_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_20191110T205310_20191110T205439_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_20191110T205907_20191110T210112_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_20191110T211526_20191110T214601_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_20191110T215414_201911110T215957_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_20191110T220331_201911110T220737_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_20191110T225320_20191110T232617_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_20191110T233318_20191110T233830_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_20191110T234406_20191111T000001_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_NOPN_2_20191110T010947_20191110T011037_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_NOPN_2_20191110T042437_20191110T042739_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_NOPN_2_20191110T062557_20191110T062942_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_NOPN_2_20191110T083356_20191110T083531_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_NOPN_2_20191110T151344_20191110T151619_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_NOPN_2_20191110T151816_20191110T151945_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 OFFE SIR NOPN 2 201911101222040 201911101222144 C001	3.	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20191110T202212_20191110T202413_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.

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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20191110T002031_20191110T002350_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_20191110T002915_20191110T003040_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_20191110T005213_20191110T005344_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_20191110T015706_20191110T015856_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_20191110T020725_20191110T020857_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_20191110T024611_20191110T024730_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_20191110T034504_20191110T034715_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_20191110T042437_20191110T042739_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_20191110T060532_20191110T060930_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_20191110T062557_20191110T062942_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_20191110T065515_20191110T065748_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_20191110T080613_20191110T080741_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_20191110T084414_20191110T084542_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_20191110T092123_20191110T092511_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_20191110T093247_20191110T093313_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_20191110T101408_20191110T101530_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_20191110T102314_20191110T102428_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_20191110T110058_20191110T110322_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_20191110T111501_20191110T111556_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_20191110T115330_20191110T115456_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_20191110T120006_20191110T120310_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_20191110T133357_20191110T133655_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_20191110T133908_20191110T134428_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_20191110T143005_20191110T143321_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_20191110T151816_20191110T151945_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_20191110T155203_20191110T155529_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_20191110T161149_20191110T161416_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_20191110T163124_20191110T163648_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_20191110T164846_20191110T165354_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_20191110T170219_20191110T170404_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_20191110T174821_20191110T175043_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_20191110T175106_20191110T175249_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_20191110T175617_20191110T175741_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_20191110T183100_20191110T183252_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_20191110T192804_20191110T193240_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_20191110T193323_20191110T193446_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_20191110T193834_20191110T194045_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_20191110T201039_20191110T201217_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_20191110T201919_20191110T202212_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_20191110T210944_20191110T211526_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_20191110T221649_20191110T222023_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_20191110T222040_20191110T222144_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_20191110T223129_20191110T223146_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_20191110T223807_20191110T223857_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_20191110T224926_20191110T225019_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_20191110T225132_20191110T225320_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_20191110T233002_20191110T233318_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_20191110T001715_20191110T002031_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_20191110T003040_20191110T003450_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.

	Ocean Altimeter Range, SSHA, SWH	L
CS_OFFL_SIR_NOPR_2_20191110T011253_20191110T012050_C001	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_20191110T020903_20191110T021459_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_20191110T025152_20191110T025735_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_20191110T034715_20191110T035240_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_20191110T040641_20191110T040854_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_20191110T043106_20191110T043756_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_20191110T060930_20191110T061453_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_20191110T061524_20191110T061623_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_20191110T065242_20191110T065515_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_20191110T084542_20191110T084832_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_20191110T095151_20191110T095215_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_20191110T101103_20191110T101408_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_20191110T102428_20191110T102853_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_20191110T114923_20191110T115330_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_20191110T120310_20191110T120656_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_20191110T124234_20191110T124255_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_20191110T132843_20191110T133357_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_20191110T150737_20191110T151344_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_20191110T164552_20191110T164638_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_20191110T171908_20191110T172757_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_20191110T175249_20191110T175444_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_20191110T192218_20191110T192317_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_20191110T192345_20191110T192804_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_20191110T200803_20191110T201039_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_20191110T202212_20191110T202413_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_20191110T205802_20191110T205907_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_20191110T210112_20191110T210944_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_20191110T214601_20191110T215031_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_20191110T220111_20191110T220331_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_20191110T223443_20191110T223604_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_20191110T224138_20191110T224926_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_20191110T225053_20191110T225132_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_20191110T232617_20191110T233002_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_20191110T233954_20191110T234406_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:

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:

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.

Number of products with errors:

131

53