







1. Overview

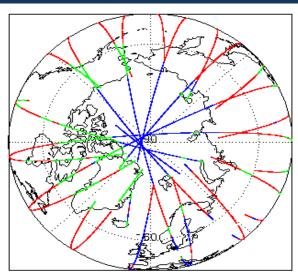
Report Production:	12-Sep-2019
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

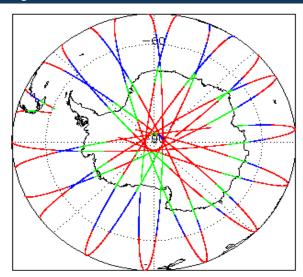
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

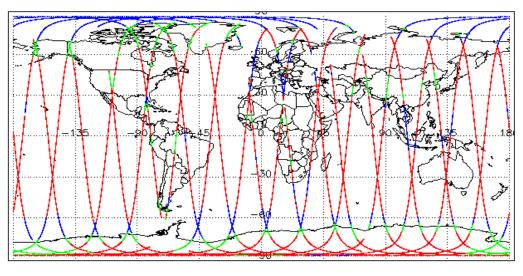
wission / instrument news	
10-Sep-2019 11-Sep-2019	None
11-Sep-2019	None

12-Sep-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 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:

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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Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20190911T070119_20190911T071728_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20190911T184803_20190911T185438_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

> Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

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Provident 6	Total Falled	Provide them
Product	Test Failed	Description Translation and the state of the
CS_OFFL_SIR_NOPM1B_20190911T000736_20190911T002647_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T004059_20190911T004526_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T034634_20190911T035103_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T055139_20190911T060602_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T070119_20190911T071728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T084737_20190911T085746_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T152244_20190911T153453_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T190651_20190911T192341_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20190911T194005_20190911T194105_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190911T071728_20190911T071930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190911T082444_20190911T082645_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190911T172227_20190911T172530_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190911T190118_20190911T190232_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190911T190419_20190911T190651_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190911T193907_20190911T194005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20190911T204041_20190911T204301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190911T000542_20190911T000736_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190911T040014_20190911T040117_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190911T072327_20190911T073020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20190911T090741_20190911T090907_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:

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
- > 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:

Test Failed Description There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPM_2_20190911T004059_20190911T004526_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPM 2 20190911T061042 20190911T062723 C001 Mean Dynamic Topography (1) nore records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPM_2_20190911T084737_20190911T085746_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPM_2_20190911T104753_20190911T105030_C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20190911T013402 20190911T013720 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T031253_20190911T031614_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20190911T032137_20190911T032301_C001 more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR NOPN 2 20190911T045957 20190911T050131 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T054313_20190911T054413_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T063727_20190911T063935_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20190911T072112 20190911T072327 C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20190911T080742_20190911T080929_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20190911T082444 20190911T082645 C001 Mean Dynamic Topography (1) Mean Dynamic Topography (1), Total There is an error with the Mean Dynamic Topography (solution 1), the Geocentric Ocean Tide (FES), Non-Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium CS OFFL SIR NOPN 2 20190911T085746 20190911T090154 C001 Long Period Ocean Tide for one or more records Equilibrium Long Period Ocean Tide There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20190911T095708 20190911T095911 C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20190911T130621_20190911T130747_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20190911T131536_20190911T131649_C001 Mean Dynamic Topography (1) more records CS OFFL SIR NOPN 2 20190911T140717 20190911T140805 C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for one or more records There is an error with the Total Geocentric Ocean Tide height (solution 1: CS_OFFL_SIR_NOPN_2_20190911T144549_20190911T144715_C001 Total Geocentric Ocean Tide (GOT) GOT) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20190911T145227 20190911T145433 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPN 2 20190911T162608 20190911T162908 C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T163128_20190911T163646_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T172227_20190911T172530_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T180604_20190911T180839_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T190118_20190911T190232_C001 Topography height (solution 1) for one or more records Topography (1) Mean Dynamic Topography (1), Total There is an error with the Mean Dynamic Topography (solution 1) and the CS OFFL SIR NOPN 2 20190911T190419 20190911T190651 C001 Geocentric Ocean Tide (GOT) Total Geocentric Ocean Tide (solution 1: GOT) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20190911T204041_20190911T204301_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20190911T204335_20190911T204522_C001 Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20190911T212320 20190911T212510 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPN 2 20190911T222017 20190911T222456 C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20190911T230258_20190911T230435_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPR 2 20190911T003441 20190911T003548 C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPR_2_20190911T003602_20190911T003637_C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_20190911T004540_20190911T005348_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR NOPR 2 20190911T022430 20190911T023252 C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T041310_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_20190911T054413_20190911T054956_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPR_2_20190911T072327_20190911T073020_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPR_2_20190911T090154_20190911T090715_C001 Topography height (solution 1) for one or more records Topography (1)

CS_OFFL_SIR_NOPR_2_20190911T221603_20190911T222017_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_20190911T235427_20190912T000059_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:

 Product
 Test Failed
 Description

 CS_OFFL_SIR_NOPM_2_20190911T070119_20190911T071728_C001
 Power scaling error
 There is an error in the scaling of the L2 waveform for one or more records

 CS_OFFL_SIR_NOPM_2_20190911T184803_20190911T185438_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20190910T235813_20190911T000412_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_20190911T000736_20190911T002647_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_20190911T002650_20190911T003440_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_20190911T003549_20190911T003602_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_20190911T004059_20190911T004526_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_20190911T005703_20190911T012931_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_20190911T013720_20190911T014243_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_20190911T014918_20190911T015039_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_20190911T020642_20190911T020827_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_20190911T022039_20190911T022429_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_20190911T023606_20190911T024522_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_20190911T024807_20190911T030929_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_20190911T031614_20190911T031723_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_20190911T032707_20190911T033642_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_20190911T033830_20190911T034429_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_20190911T040117_20190911T040139_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_20190911T041310_20190911T044802_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_20190911T045121_20190911T045621_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_20190911T045641_20190911T045957_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_20190911T050722_20190911T053855_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
30_0112_011_(101111_201000111000122_201000111000000_0001		set for one or more records.
CS_OFFL_SIR_NOPM_2_20190911T055139_20190911T060602_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_20190911T061042_20190911T062723_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_20190911T063008_20190911T063519_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_20190911T063526_20190911T063532_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_20190911T064512_20190911T065903_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_20190911T070119_20190911T071728_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_20190911T071930_20190911T072057_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_20190911T074044_20190911T075102_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_20190911T075241_20190911T080611_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_20190911T080929_20190911T081430_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_20190911T082306_20190911T082444_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_20190911T082645_20190911T083717_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_20190911T083923_20190911T084454_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_20190911T084737_20190911T085746_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_20190911T092340_20190911T094425_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_20190911T095005_20190911T095346_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_20190911T100115_20190911T102750_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_20190911T110012_20190911T112414_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_20190911T112747_20190911T113300_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_20190911T113307_20190911T113635_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_20190911T114031_20190911T121329_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_20190911T122610_20190911T123314_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_20190911T124829_20190911T125419_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_20190911T125936_20190911T130328_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_20190911T130747_20190911T131334_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_20190911T132128_20190911T135311_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_20190911T140457_20190911T140716_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_20190911T141821_20190911T141929_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_20190911T143056_20190911T144144_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_20190911T144715_20190911T145226_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_20190911T145940_20190911T152041_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_20190911T152244_20190911T153453_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_20190911T154419_20190911T154647_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_20190911T155700_20190911T160141_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_20190911T160230_20190911T160311_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_20190911T160315_20190911T162121_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_20190911T163905_20190911T171450_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_20190911T172636_20190911T174615_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_20190911T174640_20190911T175938_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_20190911T181815_20190911T183302_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_20190911T183504_20190911T184425_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_20190911T190651_20190911T192341_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_20190911T194005_20190911T194105_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_20190911T194704_20190911T194959_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_20190911T195008_20190911T195440_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_20190911T195746_20190911T201130_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_20190911T204522_20190911T204537_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_20190911T204612_20190911T204835_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_20190911T205831_20190911T212120_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_20190911T212510_20190911T213341_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_20190911T213729_20190911T220142_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_20190911T223319_20190911T223348_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_20190911T223356_20190911T230036_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_20190911T230722_20190911T231140_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_20190911T231656_20190911T234233_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_20190911T234238_20190911T234451_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_20190911T015700_20190911T015822_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_20190911T095402_20190911T095408_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_20190911T105825_20190911T110012_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_20190911T131536_20190911T131649_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_20190911T190419_20190911T190651_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_20190911T231140_20190911T231430_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_20190911T040140_20190911T040219_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_20190911T054413_20190911T054956_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_20190911T055010_20190911T055139_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_20190911T112414_20190911T112610_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_20190911T202806_20190911T202816_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_20190911T230037_20190911T230258_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20190911T020303_20190911T020326_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_20190911T020458_20190911T020642_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_20190911T023254_20190911T023606_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_20190911T031253_20190911T031614_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_20190911T032137_20190911T032301_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_20190911T034429_20190911T034634_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_20190911T044925_20190911T045121_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_20190911T045957_20190911T050131_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_20190911T054313_20190911T054413_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_20190911T062829_20190911T063008_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T063727_20190911T063935_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPN_2_20190911T072112_20190911T072327_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set imore records.
CS_OFFL_SIR_NOPN_2_20190911T073833_20190911T074014_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T074014_20190911T074044_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T085746_20190911T090154_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 Quali and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPN_2_20190911T091652_20190911T091724_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T091809_20190911T092207_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T094703_20190911T094759_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPN_2_20190911T095708_20190911T095911_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T102849_20190911T103144_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T105031_20190911T105154_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set to more records.
CS_OFFL_SIR_NOPN_2_20190911T112610_20190911T112747_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T113300_20190911T113307_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set i more records.
CS_OFFL_SIR_NOPN_2_20190911T113635_20190911T113800_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T130621_20190911T130747_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 Quali and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPN_2_20190911T135311_20190911T135630_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T142254_20190911T142438_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T144549_20190911T144715_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set imore records.
CS_OFFL_SIR_NOPN_2_20190911T160142_20190911T160230_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set to more records.
CS_OFFL_SIR_NOPN_2_20190911T162608_20190911T162908_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 and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPN_2_20190911T163128_20190911T163646_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPN_2_20190911T172227_20190911T172530_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 Qualit and the OCOG Altimeter Range and Backscatter Quality Flags has set for one or more records.
CS_OFFL_SIR_NOPN_2_20190911T181036_20190911T181214_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set i more records.
CS_OFFL_SIR_NOPN_2_20190911T181540_20190911T181711_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set to more records.
CS_OFFL_SIR_NOPN_2_20190911T184425_20190911T184803_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set more records.
CS_OFFL_SIR_NOPN_2_20190911T192341_20190911T192732_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set f more records.

Comparing and December (2014) Play the December of comparing and the Comparing and December (2014) Play the December of comparing and the Comparing and December (2014) Play the December (2014) P			
## ADDITION OF LIGHT TODAY 2010011710002 2010011710002 COLD **COLD FILE IN INCHINE 2010011710002 COLD **COLD FILE INCHINE 2010011710000 COLD FILE INCHINE 201000 COLD FILE INCHINE 20100 COLD FILE INCHINE 201000 COLD FILE	CS_OFFL_SIR_NOPN_2_20190911T192752_20190911T192821_C001	OCOG Backscatter Quality	
### OPENINS CONTROL (2015) ### OPENINS CONTROL (CS_OFFL_SIR_NOPN_2_20190911T193907_20190911T194005_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CR_OFFL_BR_NCPR_2_0166911720502_0169911700502_01891170050	CS_OFFL_SIR_NOPN_2_20190911T195440_20190911T195624_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Co. OFTL. SIR, NOPIL 2. 2016/011722042_2016/011722059_2010 Co. OFTL. SIR, NOPIL 2. 2016/011722054_20100011722059_2010 Co. OFTL. SIR, NOPIL 2. 2016/011722054_20100011722059_201001	CS_OFFL_SIR_NOPN_2_20190911T204537_20190911T204612_C001		
CSC. OFFL. SIR. NOFR. 2. 201809117222142, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 201809117222452, 20180911722450, 20180917122450, 20180917122450	CS_OFFL_SIR_NOPN_2_20190911T212320_20190911T212510_C001		, ,
Seg. CFFL_SIR, NOPN_2_2018911722542_2019911722540_COOL CPFL_SIR, NOPN_2_2018911722542_2019911722550_COOL CPFL_SIR, NOPN_2_20189117235143_2019911723500_COOL CPFL_SIR, NOPN_2_2018911723540_COOL Amount Allarge and Explanation County PLAN CPFL_SIR, NOPN_2_2018911723540_COOL CPFL_SIR, NOPN_2_2018911723540_CO	CS_OFFL_SIR_NOPN_2_20190911T220142_20190911T220527_C001		
CS_GFF_SR_NOPR_2_20180911720345_201801170344_201801170348_2018 CS_GFF_SR_NOPR_2_2018091170344_201801170348_2018 CS_GFF_SR_NOPR_2_2018091170344_2018011703588_2001 CS_GFF_SR_NOPR_2_2018091170344_201801170358_2001 CS_GFF_SR_NOPR_2_2018091170344_2018011703588_2001 CS_GFF_SR_NOPR_2_2018091170344_2018011703588_2001 CS_GFF_SR_NOPR_2_20180911703444_2018011703588_2001 CS_GFF_SR_NOPR_2_2018091170344_2018011703588_2001 CS_GFF_SR_NOPR_2_20180911703444_201801170358_2001 CS_GFF_SR_NOPR_2_20180911703444_201801170358_2001 CS_GFF_SR_NOPR_2_20180911703444_201801170348_2001 CS_GFF_SR_NOPR_2_20180911703444_201801170348_2001 CS_GFF_SR_NOPR_2_2018091170348_201801170348_2001 CS_GFF_SR_NOPR_2_20180911703444_201801170348_2001 CS_GFF_SR_NOPR_2_20180911703444_201801170348_2	CS_OFFL_SIR_NOPN_2_20190911T222017_20190911T222456_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
0.000 Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range, SISHA, SWH and Beaksoalter Caulity PLEM, OCOD Altereder Range and Beaksoalter Caulity Plags have been PLEM, NOPR 2, 201609117003442, 2018091170034442, 2018091170034442, 20180	CS_OFFL_SIR_NOPN_2_20190911T222542_20190911T222704_C001		
The Good Allenseter Pages and Backscater County PLASS (COOR) Allensete	CS_OFFL_SIR_NOPN_2_20190911T223101_20190911T223303_C001		
Seg. OFFL_SIR_NOPR_2_20180911T03149_2019091T00394_C01 CS_OFFL_SIR_NOPR_2_2018091T000542_2019091T00394_C01 CS_OFFL_SIR_NOPR_2_2018091T000542_2019091T00394_C01 CS_OFFL_SIR_NOPR_2_2018091T00394_C01 CS_OFFL_SIR_NOPR_2_2018091T003941_2019091T003947_C01 CS_OFFL_SIR_NOPR_2_2018091T003942_2019091T003947_C01 CS_OFFL_SIR_NOPR_2_2018091T003942_2019091T003947_C01 CS_OFFL_SIR_NOPR_2_2018091T003942_2019091T003947_C01 CS_OFFL_SIR_NOPR_2_2018091T003942_C01 CS_OFFL_SIR_NOPR_2_2018091T003942_2019091T003947_C01 CS_OFFL_SIR_NOPR_2_2018091T003947_C01 CS_OFFL_SIR_NOPR_2_2018091T004047_C01091T044025_C01 CS_OFFL_SIR_NOPR_2_2018091T004047_C01091T044025_C01 CS_OFFL_SIR_NOPR_2_2018091T0	CS_OFFL_SIR_NOPN_2_20190911T230258_20190911T230435_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Bebassater Quality PLRM. CODE Allimeter Range and Beassater Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20180911T003441_20190911T003545_C001 CS_OFFL_SIR_NOPR_2_20180911T003441_20190911T003545_C001 CS_OFFL_SIR_NOPR_2_20180911T004540_20190911T003545_C001 CS_OFFL_SIR_NOPR_2_20180911T004540_20190911T003545_C001 CS_OFFL_SIR_NOPR_2_20180911T004540_20190911T014758_C001 CS_OFFL_SIR_NOPR_2_20180911T004540_20190911T0014758_C001 CS_OFFL_SIR_NOPR_2_20180911T004540_20190911T004758_C001 CS_OFFL_SIR_NOPR_2_20180911T0	CS_OFFL_SIR_NOPN_2_20190911T231140_20190911T231430_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality CS_OFFL_SIR_NOPR_2_20190911T003602_20190911T003837_C001 OCOG Allmeter Range Quality PLRM. OCOG Backscatter Quality PLRM. OCOG Ba	CS_OFFL_SIR_NOPR_2_20190911T000542_20190911T000736_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20190911T040540_20190911T05348_C001 CS_OFFL_SIR_NOPR_2_20190911T04402_20190911T04758_C001 CS_OFFL_SIR_NOPR_2_20190911T04402_2019091T04758_C001 CS_OFFL_SIR_NOPR_2_20190911T024726_2019091T024925_C001 CS_OFFL_SIR_NOPR_2_2019091T024726_2019091T024925_C001 CS_OFFL_SIR_NOPR_2_2019091T02430_2019091T024925_C001 CS_OFFL_SIR_NOPR_2_2019091T02430_2019091T024925_C001 CS_OFFL_SIR_NOPR_2_2019091T02430_2019091T024925_C001 CS_OFFL_SIR_NOPR_2_2019091T02430_2019091T024925_C001 CS_OFFL_SIR_NOPR_2_2019091T02430_2019091T031253_C001 CS_OFFL_SIR_NOPR_2_2019091T030202_2019091T031253_C001 CS_OFFL_SIR_NOPR_2_2019091T040514_2019091T041310_C001 CS_OFFL_SIR_NOPR_2_2019091T040514_2019091T04130_C001 CS_OFFL_SIR_NOPR_2_2019091T040514_2019091T04130_C001 CS_OFFL_SIR_NOPR_2_2019091T040514_2019091T044925_C001 CS_OFFL_SIR_NOPR_2_2019091T040514_2019091T044925_C001 CS_OFFL_SIR_NOPR_2_2019091T050403_C019091T054030_C001 CS_OFFL_SIR_NOPR_2_2019091T050403_2019091T054050_C001 CS_OFFL_SIR_NOPR_2_2019091T054413_2019091T054050_C001 CS_OFFL_SIR_NOPR_	CS_OFFL_SIR_NOPR_2_20190911T003441_20190911T003548_C001		
CS_OFFL_SIR_NOPR_2_20190911T04402_20190911T04798_CO01 Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range, SSHA, SWH and Backscatter Quality Flags have been control of the COOG Allmater Range and Backscatter Quality Flags have been control of the COOG Allmater Range and Backscatter Quality Flags have been control of the COOG Allmater Range and Backscatter Quality Flags have been control of the COOG Allmater Range a	CS_OFFL_SIR_NOPR_2_20190911T003602_20190911T003637_C001		
SOFFL_SIR_NOPR_2_20190911T014782_C010 and Backscater Quality PLRM. OCOG Altimeter Range and Backscater Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20190911T021726_20190911T021925_C001 CS_OFFL_SIR_NOPR_2_20190911T02430_20190911T023252_C001 CS_OFFL_SIR_NOPR_2_20190911T030329_20190911T031253_C001 CS_OFFL_SIR_NOPR_2_20190911T030329_20190911T031253_C001 CS_OFFL_SIR_NOPR_2_20190911T030329_20190911T031253_C001 CS_OFFL_SIR_NOPR_2_20190911T030301_20190911T032707_C001 CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T041310_C001 CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050403_C001 CS_OFFL_	CS_OFFL_SIR_NOPR_2_20190911T004540_20190911T005348_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCCS Backscatter Quality CS_OFFL_SIR_NOPR_2_20190911T02430_20190911T023252_C001 CS_OFFL_SIR_NOPR_2_20190911T02430_20190911T032252_C001 CS_OFFL_SIR_NOPR_2_20190911T030929_20190911T031253_C001 CS_OFFL_SIR_NOPR_2_20190911T030929_20190911T031253_C001 CS_OFFL_SIR_NOPR_2_20190911T032301_20190911T032707_C001 CS_OFFL_SIR_NOPR_2_20190911T032301_20190911T032707_C001 CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T041310_C001 CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T041310_C001 CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T041310_C001 CS_OFFL_SIR_NOPR_2_20190911T044802_20190911T044925_C001 CS_OFFL_SIR_NOPR_2_20190911T050131_20190911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20100911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_2019091T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T0	CS_OFFL_SIR_NOPR_2_20190911T014402_20190911T014758_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20190911T022430_20190911T03252_C001 and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality Plr PLRM CS_OFFL_SIR_NOPR_2_20190911T030929_20190911T031253_C001 Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality PLRM, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Allimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Allimeter Range and Backscatter Quality PLRM, OCOG Allimete	CS_OFFL_SIR_NOPR_2_20190911T021726_20190911T021925_C001		
CS_OFFL_SIR_NOPR_2_20190911T030929_20190911T031253_C001 Alimeter Range and Backscatter Quality PLRM, OCOG Alimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T041310_C001 CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T044925_C001 CS_OFFL_SIR_NOPR_2_20190911T050131_20190911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T054956_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T054956_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T05010_20190911T055139_C001	CS_OFFL_SIR_NOPR_2_20190911T022430_20190911T023252_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter R	CS_OFFL_SIR_NOPR_2_20190911T030929_20190911T031253_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality PLRM, COG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter	CS_OFFL_SIR_NOPR_2_20190911T032301_20190911T032707_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20190911T050131_20190911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050403_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050722_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050722_C001 CS_OFFL_SIR_NOPR_2_20190911T054413_20190911T054956_C001 CS_OFFL_SIR_NOPR_2_20190911T054413_20190911T054956_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_2019091T064512_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_2019091T064512_C001 CS_OFFL_SIR_NOPR_2_2019091T063935_2019091T064512_C001 CS_OFFL_SIR_NOPR_2_2019091T063935_2	CS_OFFL_SIR_NOPR_2_20190911T040514_20190911T041310_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050722_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050722_C001 CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T0504956_C001 CS_OFFL_SIR_NOPR_2_20190911T054413_20190911T054956_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_2019091T063935_20190911T064512_C001 CS_OFFL_SIR_NOPR_2_2019091T063935_2019091T064512_C001 CS_OFFL_SIR_NOPR_2_	CS_OFFL_SIR_NOPR_2_20190911T044802_20190911T044925_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM. CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20190911T050131_20190911T050403_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20190911T054413_20190911T054956_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001 CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Range and Backscatter Quality Plags Range and Backscatter Quality Plags Range Ran	CS_OFFL_SIR_NOPR_2_20190911T050403_20190911T050722_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality More records. The 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 set for one or more records.	CS_OFFL_SIR_NOPR_2_20190911T054413_20190911T054956_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Plags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20190911T055010_20190911T055139_C001		
	CS_OFFL_SIR_NOPR_2_20190911T063935_20190911T064512_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPR_2_20190911T065903_20190911T070015_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_20190911T070018_20190911T070119_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_20190911T072327_20190911T073020_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_20190911T080611_20190911T080742_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_20190911T090154_20190911T090715_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_20190911T090742_20190911T090907_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_20190911T095912_20190911T100115_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_20190911T131650_20190911T132128_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_20190911T140829_20190911T141157_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_20190911T143025_20190911T143056_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_20190911T144144_20190911T144548_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_20190911T145530_20190911T145940_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_20190911T154647_20190911T155412_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_20190911T162121_20190911T162608_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_20190911T163646_20190911T163905_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_20190911T171452_20190911T171555_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_20190911T175938_20190911T180604_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_20190911T201655_20190911T202019_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_20190911T205547_20190911T205708_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_20190911T212120_20190911T212320_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_20190911T221603_20190911T222017_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_20190911T231430_20190911T231656_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_20190911T235427_20190912T000059_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)

 $\label{lem:currently} \textbf{Currently, there are several common flags raised in the Level 2 products, which are summarised below.}$

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

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:

61

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:

118