

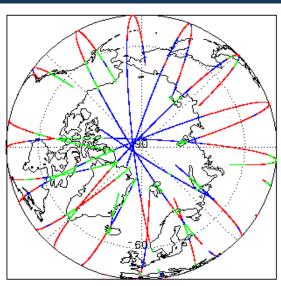
# 1. Overview

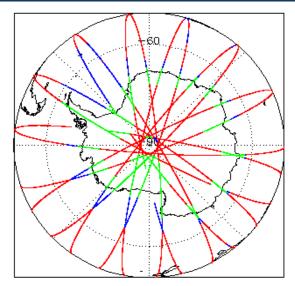
Report Production:	14-Apr-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

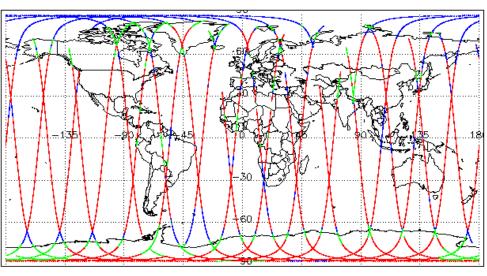
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement 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

Mission / Instrument News		
09-Apr-2020	None	
10-Apr-2020	None	
11-Apr-2020	Nothing planned	

# 2. Global Coverage









# 3. Instrument Configuration

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

SIRAL instrument(s) in use:	SIRAL - A
Star Tracker(s) in use:	Star Tracker 1

# 4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

#### 4.2 L1B Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

L1B Processing Quality HR: The I1b\_proc\_flag\_hr flag is currently set all L1B IOPR and IOPN products because the I1b\_processing\_quality\_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

#### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

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:

Ω

#### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200410T212941_20200410T213658_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20200410T221351_20200410T224751_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:

18

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200410T031218_20200410T031259_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200410T164111_20200410T170325_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200410T195159_20200410T200344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T032014_20200410T032212_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T080557_20200410T080717_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T084625_20200410T085206_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T094529_20200410T094739_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T112442_20200410T112928_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T144823_20200410T144939_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T175410_20200410T175613_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200410T211414_20200410T211625_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200410T004236_20200410T004418_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200410T045342_20200410T045718_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200410T062946_20200410T063134_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200410T125715_20200410T125926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200410T142507_20200410T142644_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200410T143849_20200410T144638_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200410T193711_20200410T194252_C001	Loss of Echo	The tracking echo is missing for one or more records

#### 5. NOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

# 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.

Number of products with errors:

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

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.

- > 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 20200410T220920 20200410T221054 C001	Mean Sea Surface (1), Mean Dynamic	Description There is an error with the MSS height (solution 1) and the Mean Dynamic
	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_20200410T035028_20200410T035153_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_20200410T072003_20200410T072143_C001	Mean Dynamic Topography (1)	more records
CS_OFFL_SIR_NOPN_2_20200410T102812_20200410T102950_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_20200410T103838_20200410T104046_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_20200410T121629_20200410T121853_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_20200410T175410_20200410T175613_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_20200410T185219_20200410T185405_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_20200410T220028_20200410T220236_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_20200410T035712_20200410T040019_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_20200410T053011_20200410T053308_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_20200410T080557_20200410T080717_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_20200410T084625_20200410T085206_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_20200410T094529_20200410T094739_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_20200410T152709_20200410T153023_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_20200410T170441_20200410T170859_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_20200410T171439_20200410T171602_C001	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 20200410T193619 20200410T193711 C001	Topography (1)  Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records  There is an error with the MSS height (solution 1) and the Mean Dynamic
CS OFFL SIR NOPN 2 20200410T203020 20200410T203243 C001	Topography (1) Mean Sea Surface (1), Mean Dynamic	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS OFFL SIR NOPN 2 20200410T211414 20200410T211625 C001	Topography (1) wean Sea Surrace (1), wean Dynamic Topography (1), Total Geocentric Ocean	Topography height (solution 1) for one or more records in error with the ws5 neight (solution 1), the mean ⊔ynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height
05_611	Tide (GOT)  Mean Sea Surface (1), Mean Dynamic	(solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200410T134723_20200410T135116_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	
CS_OFFL_SIR_NOPM_2_20200410T203732_20200410T204552_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_20200410T100843_20200410T101003_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20200410T141953_20200410T142507_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200410T013127_20200410T013255_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_20200410T063145_20200410T063230_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_20200410T094031_20200410T094120_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_20200410T143752_20200410T143849_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_20200410T230003_20200410T230036_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_20200410T213658_20200410T214539_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_20200410T112442_20200410T112928_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_20200410T225056_20200410T225448_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_20200410T125937_20200410T130511_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_20200410T143849_20200410T144638_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_20200410T161704_20200410T162948_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_20200410T175816_20200410T180609_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_20200410T193711_20200410T194252_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_20200410T211625_20200410T212317_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_20200410T225449_20200410T230003_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_20200410T011650_20200410T012030_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_NOPR_2_20200410T142758_20200410T142936_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200410T212940_20200410T213658_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_20200410T221351_20200410T224751_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:

90

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200410T000520_20200410T003042_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_20200410T003221_20200410T003746_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_20200410T004418_20200410T011650_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_20200410T014016_20200410T014155_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_20200410T014157_20200410T020255_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_20200410T020405_20200410T021030_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_20200410T021216_20200410T022024_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_20200410T022336_20200410T025751_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_20200410T031936_20200410T032013_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_20200410T034116_20200410T034941_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_20200410T035153_20200410T035712_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_20200410T040301_20200410T042524_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_20200410T042810_20200410T043726_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_20200410T044933_20200410T045342_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_20200410T050932_20200410T051414_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_20200410T051602_20200410T052841_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_20200410T054228_20200410T060929_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_20200410T061108_20200410T061536_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_20200410T063230_20200410T063925_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_20200410T063939_20200410T070348_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_20200410T072210_20200410T072717_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_20200410T072810_20200410T073831_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_20200410T073845_20200410T073942_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_20200410T074025_20200410T074926_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_20200410T075300_20200410T075347_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_20200410T075804_20200410T075804_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_20200410T081247_20200410T081520_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_20200410T081600_20200410T082658_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_20200410T083441_20200410T084625_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_20200410T085501_20200410T085925_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_20200410T090119_20200410T091610_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_20200410T091750_20200410T092842_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_20200410T093355_20200410T093405_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_20200410T095800_20200410T100149_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_20200410T100311_20200410T100842_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_20200410T101003_20200410T102708_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_20200410T102950_20200410T103838_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_20200410T104055_20200410T110313_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_20200410T113944_20200410T120608_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_20200410T121201_20200410T121629_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_20200410T121950_20200410T124740_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_20200410T131347_20200410T131622_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_20200410T131747_20200410T134518_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_20200410T135116_20200410T135707_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_20200410T135844_20200410T141808_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_20200410T141953_20200410T142507_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_20200410T144939_20200410T152420_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_20200410T153023_20200410T153538_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_20200410T153728_20200410T154022_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_20200410T154221_20200410T154527_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_20200410T161259_20200410T161704_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_20200410T162948_20200410T163826_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_20200410T164111_20200410T170325_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_20200410T170859_20200410T171023_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_20200410T171031_20200410T171439_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_20200410T171643_20200410T172947_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_20200410T173135_20200410T173852_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_20200410T173941_20200410T174408_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_20200410T180958_20200410T184203_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_20200410T184357_20200410T184922_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_20200410T184941_20200410T185219_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_20200410T190024_20200410T191255_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_20200410T191310_20200410T193026_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_20200410T193406_20200410T193619_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_20200410T194631_20200410T194702_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_20200410T195159_20200410T200344_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_20200410T200547_20200410T202124_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_20200410T202319_20200410T202819_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_20200410T202858_20200410T203020_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_20200410T203732_20200410T204552_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_20200410T204558_20200410T204802_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_20200410T205420_20200410T210633_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_20200410T214539_20200410T220015_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_20200410T220236_20200410T220730_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_20200410T220811_20200410T220920_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_20200410T221351_20200410T224751_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_20200410T224952_20200410T225056_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_20200410T000109_20200410T000520_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_20200410T003746_20200410T003752_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_20200410T030006_20200410T030139_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_20200410T031919_20200410T031936_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_20200410T071049_20200410T071141_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_20200410T112442_20200410T112928_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_20200410T171439_20200410T171602_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_20200410T175410_20200410T175613_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_20200410T220028_20200410T220236_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_20200410T022137_20200410T022336_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_20200410T032212_20200410T032244_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_20200410T075347_20200410T075356_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_20200410T095114_20200410T095158_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200410T000109_20200410T000520_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_20200410T011650_20200410T012030_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_20200410T022024_20200410T022137_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_20200410T025751_20200410T025922_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_20200410T031339_20200410T031501_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_20200410T031919_20200410T031936_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_20200410T032014_20200410T032212_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_20200410T050600_20200410T050932_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_20200410T053612_20200410T053710_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_20200410T062831_20200410T062946_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_20200410T071518_20200410T071751_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_20200410T072003_20200410T072143_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_20200410T083335_20200410T083441_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_20200410T084625_20200410T085206_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_20200410T094031_20200410T094120_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_20200410T094844_20200410T095114_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_20200410T095317_20200410T095439_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_20200410T100843_20200410T101003_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_20200410T102812_20200410T102950_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_20200410T110515_20200410T110823_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_20200410T110918_20200410T111050_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_20200410T112442_20200410T112928_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_20200410T120747_20200410T120914_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_20200410T121629_20200410T121853_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_20200410T125926_20200410T125937_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_20200410T134723_20200410T135116_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_20200410T135707_20200410T135833_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_20200410T143306_20200410T143430_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_20200410T144823_20200410T144939_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_20200410T152709_20200410T153023_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_20200410T160755_20200410T160848_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

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Comparison	CS_OFFL_SIR_NOPN_2_20200410T175410_20200410T175613_C001	OCOG Altimeter Range Quality PLRM,	
CS_DPT_SR_NCPT_2.0000410720152_0000410720152_CO01   CS_DPT_SR_NCPT_2.0000410720152_0000410720152_CO01   CS_DPT_SR_NCPT_2.0000410720152_0000410720152_CO01   CS_DPT_SR_NCPT_2.0000410720152_0000410720152_CO01   CS_DPT_SR_NCPT_2.0000410720152_CO01   CS_DPT_SR_NC	CS_OFFL_SIR_NOPN_2_20200410T184232_20200410T184357_C001		
CS_OFFL_SIR_NOPR_2_2020449T20200_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T20200_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T20200_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2002_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2002_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2002_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T2000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T0000_2020449T20348_CO01  CS_OFFL_SIR_NOPR_2_2020449T0000_2020449T00000_2020449T00000_2020449T00000_2020449T00000000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20200410T193619_20200410T193711_C001		
Col., OFFL, SIR, NOPNL, 2, 20000416721312, 20009410723450, C001	CS_OFFL_SIR_NOPN_2_20200410T202137_20200410T202319_C001		
CS_OFT_SIR_NORW_2_20200410711012_20204107121132_CD00  CS_OFT_SIR_NORW_2_20200410711012_20204107121132_CD00  CS_OFT_SIR_NORW_2_20200410711012_20204107121325_CD01  CS_OFT_SIR_NORW_2_202004107121014_202004107121325_CD01  CS_OFT_SIR_NORW_2_202004107120056_202004107120564_CD01  CS_OFT_SIR_NORW_2_202004107120056_20200410712056_CD01  CS_OFT_SIR_NORW_2_202004107120056_20200410712056_CD01  CS_OFT_SIR_NORW_2_2020041071205056_20200410712056_CD01  CS_OFT_SIR_NORW_2_2020041071205056_202004107120506_CD01  CS_OFT_SIR_NORW_2_202004107120506_202004107120506_CD01  CS_OFT_SIR_NORW_2_202004107120506_202004107120506_CD01  CS_OFT_SIR_NORW_2_202004107120506_202004107120506_CD01  CS_OFT_SIR_NORW_2_202004107120506_202004107120506_CD01  CS_OFT_SIR_NORW_2_202004107	CS_OFFL_SIR_NOPN_2_20200410T203020_20200410T203243_C001		
SS_OFFL_SIR_NOPR_2_20200410721102_20200410721102_0001  All motors Range and indicators County Plant Age Section (American Plant Age Section County Plant North County Section Plant Age Section County Plant Age Section County Plant North County Plant North County Section Plant Age Section County Plant North County Section Plant County Plant North County Section Plant County Section	CS_OFFL_SIR_NOPN_2_20200410T205119_20200410T205420_C001		
CS_OFFL_SIR_NOPR_2_20200410723955_20200419723564_0001  CS_OFFL_SIR_NOPR_2_20200410723955_20200419723564_0001  CS_OFFL_SIR_NOPR_2_20200410723955_20200419723564_0001  CS_OFFL_SIR_NOPR_2_20200410723955_20200419703955_0001  CS_OFFL_SIR_NOPR_2_20200410703955_20200419703955_0001  CS_OFFL_SIR	CS_OFFL_SIR_NOPN_2_20200410T211032_20200410T211327_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCCS 6arbicaster Quality PLRM, CS_OFFL_SIR_NOPR_2_202004107023151_20200410703172_001  OCCS 6arbicaster Quality PLRM, CS_OFFL_SIR_NOPR_2_202004107023151_20200410703172_001  OCCS 6arbicaster Quality PLRM, OCCS 6arbicast	CS_OFFL_SIR_NOPN_2_20200410T211414_20200410T211625_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 Flags and Students (Quality Flags and Students Quality Flags And Students Qua	CS_OFFL_SIR_NOPN_2_20200410T225056_20200410T225448_C001		
and Backscatter Quality PLRM. COOG Allmeter Range Sup and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPR_2_20200410702137_2020410702239_C001  CS_OFFL_SIR_NOPR_2_202004107025922_20204107030006_C001  CS_OFFL_SIR_NOPR_2_202004107025922_20204107030006_C001  CS_OFFL_SIR_NOPR_2_202004107033833_202004107034116_C001  CS_OFFL_SIR_NOPR_2_20200410703383_202004107034116_C001  CS_OFFL_SIR_NOPR_2_20200410703383_202004107034116_C001  CS_OFFL_SIR_NOPR_2_20200410703383_202004107034116_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107061712_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107061736_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107061736_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107061736_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107061736_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107061736_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107061736_C001  CS_OFFL_SIR_NOPR_2_202004107061536_202004107063336_C001  CS_OFFL_SIR_NOPR_2_202004107063306_202004107063336_C001  CS_OFFL_SIR_NOPR_2_202004107063306_202004107063336_C001  CS_OFFL_SIR_NOPR_2_202004107063306_202004107063336_C001  CS_OFFL_SIR_NOPR_2_202004107063306_202004107063336_C001  CS_OFFL_SIR_NOPR_2_202004107063306_202004107063336_C001  CCCG_Allimeter Range_Outlity Flamb. CCCG_Allimeter Range Outlity Flamb. CCCG_Allimeter Range Outl	CS_OFFL_SIR_NOPN_2_20200410T231151_20200410T231510_C001		
CS_OFFL_SIR_NOPR_2_20200410T025192_20200410T030006_C001  CS_OFFL_SIR_NOPR_2_20200410T035933_20200410T034116_C001  CS_OFFL_SIR_NOPR_2_20200410T035933_20200410T034116_C001  CS_OFFL_SIR_NOPR_2_20200410T035933_20200410T034116_C001  CS_OFFL_SIR_NOPR_2_20200410T035933_20200410T034116_C001  CS_OFFL_SIR_NOPR_2_20200410T049726_20200410T034928_C001  CS_OFFL_SIR_NOPR_2_20200410T049726_20200410T04928_C001  CS_OFFL_SIR_NOPR_2_20200410T049726_20200410T04928_C001  CS_OFFL_SIR_NOPR_2_20200410T049726_20200410T04928_C001  CS_OFFL_SIR_NOPR_2_20200410T049726_20200410T04928_C001  CS_OFFL_SIR_NOPR_2_20200410T061556_20200410T064228_C001  CS_OFFL_SIR_NOPR_2_20200410T061556_20200410T064728_C001  CS_OFFL_SIR_NOPR_2_20200410T061556_20200410T064728_C001  CS_OFFL_SIR_NOPR_2_20200410T061556_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061556_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T061708_2001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T061708_2001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T063008_C001  CS_OFFL_SIR_NOPR_2_20200410T061506_20200410T063008_C001  CS_OFFL_SIR_NOPR_2_20200410T061608_20200410T063008_C001  CS_OFFL_SIR_NOPR_2_20200410T061608_20200410T063008_C001  CS_OFFL_SIR_NOPR_2_20200410T061608_20200410T063008_C001  CS_OFFL_SIR_NOPR_2_20200410T061608_20200410T063008_C001  CCCCA Altimeter Range Quality PLRM.  CCCCA Altimeter Range Guality PLRM.  CCCCA Alti	CS_OFFL_SIR_NOPR_2_20200410T013010_20200410T013127_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_20200410T033833_20200410T034116_C001  CS_OFFL_SIR_NOPR_2_20200410T033833_20200410T034116_C001  CS_OFFL_SIR_NOPR_2_20200410T033833_20200410T034126_C001  CS_OFFL_SIR_NOPR_2_20200410T033833_20200410T03428_C001  CS_OFFL_SIR_NOPR_2_20200410T033830_20200410T03428_C001  CS_OFFL_SIR_NOPR_2_20200410T033830_20200410T03428_C001  CS_OFFL_SIR_NOPR_2_20200410T033830_20200410T03428_C001  CS_OFFL_SIR_NOPR_2_20200410T033830_20200410T03472_C001  CS_OFFL_SIR_NOPR_2_20200410T03472_C001  CS_OFFL_SIR_NOPR_2_20200410T03472_C001  CS_OFFL_SIR_NOPR_2_20200410T03472_C001  CS_OFFL_SIR_NOPR_2_20200410T03472_C001  CS_OFFL_SIR_NOPR_2_20200410T03473_C001  CS_OFFL_SIR_NOPR_2_20200410T03392_C001  CS_OFFL_SIR_NOPR_2_20200410T03393_C001  CS_OFFL_SIR_NOPR_2_20200410T03325_20200410T03393_C001  CS_OFFL_SIR_NOPR_2_20200410T03325_20200410T033935_C001  CCG_OFFL_SIR_NOPR_2_20200410T03325_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03325_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T033335_C001  CCG_OFFL_SIR_NOPR_2_20200410T03330_20200410T034331_C001  CCG_OFF	CS_OFFL_SIR_NOPR_2_20200410T022137_20200410T022336_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_20200410T043726_20200410T043928_C001  CS_OFFL_SIR_NOPR_2_20200410T043726_20200410T043928_C001  CS_OFFL_SIR_NOPR_2_20200410T053950_20200410T054228_C001  CS_OFFL_SIR_NOPR_2_20200410T053950_20200410T054228_C001  CS_OFFL_SIR_NOPR_2_20200410T061536_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061536_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061536_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061717_20200410T061739_C001  CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T063935_C000  CS_OFFL_SIR_NOPR_2_20200410T063935_C000  CS_OFFL_SIR_NOPR_2_20200410T063935_C000  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063935_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T063937_C001  CS_OFFL_SIR_NOPR_2_20200410T063936_20200410T069337_C001  CCG_Allimeter Range_Quality PLRM. COG_Backscatter Quality CCG_Allimeter Range_Quality PLRM. COG_Backscatter Quality CCG_Allimeter Range_Quality PLRM. COG_Backscatter Quality CCG_Allimeter Range_Quality PLRM. CCG_Backscatter Quality CCG_Allimeter Range_Duality PLRM. CCG_Backscatter Quality PLRM. CCG_Backscatter Quality PLRM. CCG_Backscatter Quality PLRM. CCG_Backscatter Qualit	CS_OFFL_SIR_NOPR_2_20200410T025922_20200410T030006_C001		
OCG Backscatter Quality  CS_OFFL_SIR_NOPR_2_20200410T083950_20200410T054228_C001  CS_OFFL_SIR_NOPR_2_20200410T083950_20200410T054228_C001  CS_OFFL_SIR_NOPR_2_20200410T081536_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T081536_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T081717_20200410T061719_C001  CS_OFFL_SIR_NOPR_2_20200410T081717_20200410T061739_C001  CS_OFFL_SIR_NOPR_2_20200410T08395_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T08395_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T082658_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T082658_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T08395_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T08395_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T08395_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T093658_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T093658_20200410T083935_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093750_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCS_OFFL_SIR_NOPR_2_20200	CS_OFFL_SIR_NOPR_2_20200410T033833_20200410T034116_C001		, ,
CS_OFFL_SIR_NOPR_2_20200410T053950_20200410T054228_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200410T061536_20200410T061712_C001  CS_OFFL_SIR_NOPR_2_20200410T061736_C001  CS_OFFL_SIR_NOPR_2_20200410T061736_C001  CS_OFFL_SIR_NOPR_2_20200410T063935_C001  CS_OFFL_SIR_NOPR_2_20200410T063935_C001  CS_OFFL_SIR_NOPR_2_20200410T082658_20200410T083035_C001  CS_OFFL_SIR_NOPR_2_20200410T091610_20200410T091750_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_20200410T0930506_2020041	CS_OFFL_SIR_NOPR_2_20200410T043726_20200410T043928_C001	OCOG Backscatter Quality	
CS_OFFL_SIR_NOPR_2_20200410T061536_20200410T061712_C001  Allameter Range and Backscatter Quality PLRM. COCG Allameter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPR_2_20200410T061717_20200410T061739_C001  CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T082658_20200410T083035_C001  CS_OFFL_SIR_NOPR_2_20200410T091610_20200410T091750_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCG_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095158_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095158_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095598_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095158_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095598_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095598_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095598_C001  CCG_OFFL_SIR_NOPR_2_20200410T095744_20200410T095598_C001  CCG_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCG_OFFL_	CS_OFFL_SIR_NOPR_2_20200410T053950_20200410T054228_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCG Backscatter Quality  CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_C001  CS_OFFL_SIR_NOPR_2_20200410T082658_20200410T083035_C001  CS_OFFL_SIR_NOPR_2_20200410T091610_20200410T091750_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CCOG Altimeter Range Quality PLRM, OCG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, OCG Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, OCG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, OCG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, OCG Range and Backscatter Quality Flags have been set for one or more records.  CCOG Altimeter Range Quality PLRM, OCG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200410T061536_20200410T061712_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_20200410T063925_20200410T063939_C001  and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPR_2_20200410T082658_20200410T083035_C001  CS_OFFL_SIR_NOPR_2_20200410T091610_20200410T091750_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200410T061717_20200410T061739_C001		
CS_OFFL_SIR_NOPR_2_20200410T093610_20200410T091750_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T095158_C001  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  CS_OFFL_SIR_NOPR_2_20200410T095144_20200410T095158_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200410T063925_20200410T063939_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_20200410T093306_20200410T093337_C001  OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM. OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200410T082658_20200410T083035_C001		
CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001  OCOG Backscatter Quality  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200410T091610_20200410T091750_C001		
CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001  OCOG Backscatter Quality  more records.  The OCOG Range and Backscatter Quality Flags have been set for one or more records.  OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200410T093306_20200410T093337_C001		
OCOG Backscatter Quality  OCOG Backscatter Quality  more records.  OCOG Backscatter Quality PLRM,  The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPR_2_20200410T093930_20200410T094031_C001		
	CS_OFFL_SIR_NOPR_2_20200410T095114_20200410T095158_C001		
	CS_OFFL_SIR_NOPR_2_20200410T095744_20200410T095800_C001		

CS_OFFL_SIR_NOPR_2_20200410T110313_20200410T110347_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_20200410T125521_20200410T125659_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_20200410T125937_20200410T130511_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_20200410T142758_20200410T142936_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_20200410T143430_20200410T143508_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_20200410T143849_20200410T144638_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_20200410T144737_20200410T144804_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_20200410T144807_20200410T144811_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_20200410T154527_20200410T155055_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_20200410T161704_20200410T162948_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_20200410T175327_20200410T175410_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_20200410T175816_20200410T180609_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_20200410T185405_20200410T185702_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_20200410T194340_20200410T194439_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_20200410T194721_20200410T194918_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_20200410T200344_20200410T200547_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_20200410T203243_20200410T203641_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_20200410T211625_20200410T212317_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_20200410T213658_20200410T214539_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_20200410T224751_20200410T224952_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_20200410T225449_20200410T230003_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.

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.

### 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:

125