

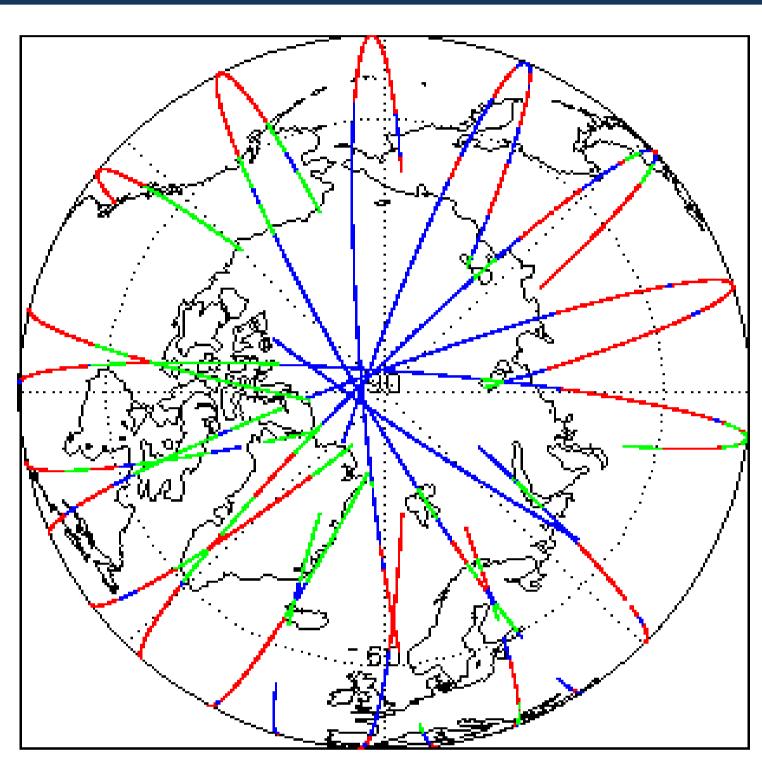
1. Overview

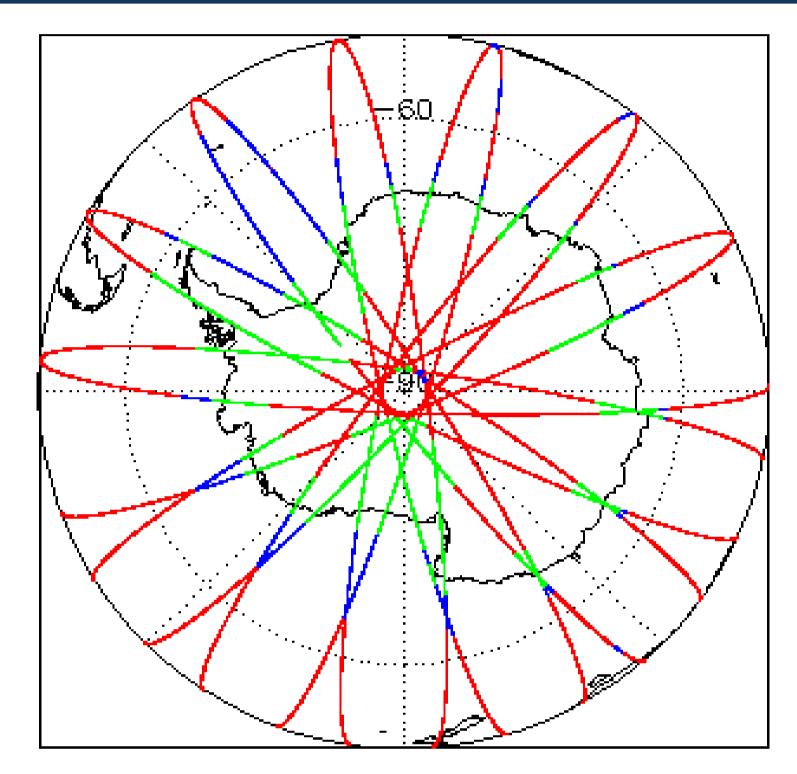
Report Production:	15-Apr-2020		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data		

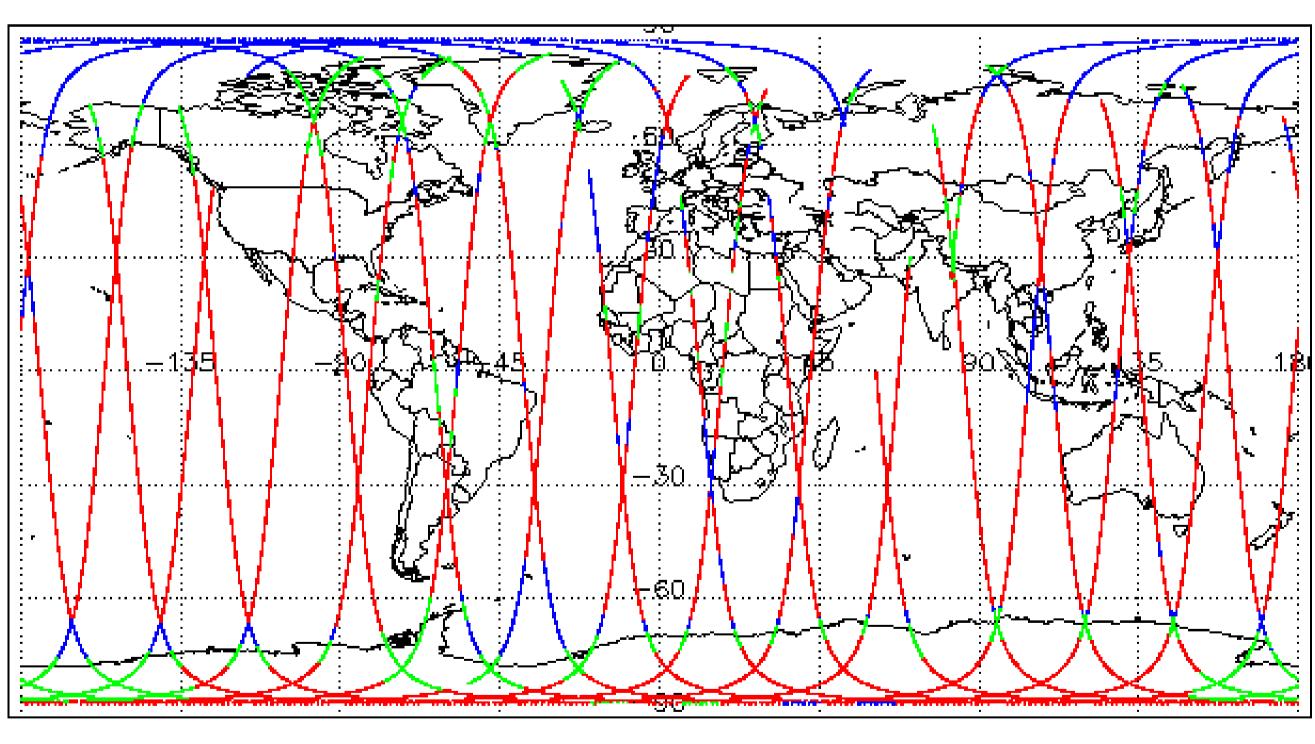
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement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

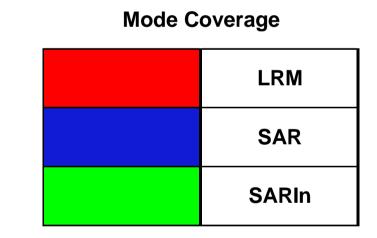
Mission / Instrument News		
13-Apr-2020	None	
14-Apr-2020	None	
15-Apr-2020	Nothing planned	

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

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 l1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the l1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

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:

15

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200414T200057_20200414T201631_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T011221_20200414T011711_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T062646_20200414T062728_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T080104_20200414T080223_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T084052_20200414T084709_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T143047_20200414T143120_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T144330_20200414T144451_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T174910_20200414T175120_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200414T193125_20200414T193227_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200414T094613_20200414T094653_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200414T142753_20200414T142814_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200414T161326_20200414T162446_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200414T203149_20200414T203229_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200414T210122_20200414T210222_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200414T210444_20200414T210548_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

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.

41

- > 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
Product CS_OFFL_SIR_NOPM_2_20200414T141835_20200414T142010_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_20200414T011221_20200414T011711_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200414T012650_20200414T012757_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_20200414T025245_20200414T025409_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_20200414T034536_20200414T034702_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_20200414T035218_20200414T035523_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_20200414T052522_20200414T052831_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_20200414T053119_20200414T053502_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_20200414T070556_20200414T070804_C001	Mean Sea Surface (1), Mean Dynamic Topography (1) wean Sea Surface (1), wean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records I nere is an error with the ivide neight (solution 1), the ividan Dynamic
CS_OFFL_SIR_NOPN_2_20200414T080104_20200414T080223_C001	Topography (1), Total Geocentric Ocean Tide (GOT) Moon Son Surface (1) Moon Dynamic	Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records. There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T084052_20200414T084709_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20200414T094039_20200414T094206_C001	Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T094344_20200414T094613_C001	Topography (1) iviean Dynamic Topography (1), Total	Topography height (solution 1) for one or more records I nere is an error with the iviean Dynamic Topography (solution 1), the
CS_OFFL_SIR_NOPN_2_20200414T102317_20200414T102453_C001	Geocentric Ocean Tide (FES), Non- Fauilibrium Long Period Ocean Tide	Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20200414T111951_20200414T112437_C001	Mean Dynamic Topography (1) Iviean Sea Surrace (1), Iviean Dynamic	more records There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T121135_20200414T121406_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Mean Sea Surface (1), Mean Dynamic	Topography (solution 1) and the tidal corrections for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T134233_20200414T134624_C001	Topography (1) iviean Беа Бипасе (1), iviean Бупатіс	Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T143257_20200414T143353_C001	Topography (1), Total Geocentric Ocean Tide (GOT) Total Geocentric Ocean	Topography (solution 1) and the tidal corrections for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20200414T152216_20200414T152530_C001	Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T165934_20200414T170400_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_20200414T170947_20200414T171106_C001 CS_OFFL_SIR_NOPN_2_20200414T174910_20200414T175120_C001	Topography (1) Iviean Sea Surrace (1), Iviean Dynamic Topography (1), Total Geocentric Ocean	Topography height (solution 1) for one or more records I nere is an error with the iviss height (solution 1), the iviean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height
CS_OFFL_SIR_NOPN_2_202004141174910_202004141175120_C001 CS_OFFL_SIR_NOPN_2_20200414T184717_20200414T184905_C001	Tide (GOT) Mean Dynamic Topography (1)	(solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOFN_2_202004141184717_202004141184905_C001 CS_OFFL_SIR_NOPN_2_20200414T193125_20200414T193227_C001	iviean Sea Surrace (1), iviean Dynamic Topography (1), Total Geocentric Ocean	more records I nere is an error with the iviss neight (solution 1), the iviean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height
CS_OFFL_SIR_NOPN_2_20200414T193125_20200414T193227_C001 CS_OFFL_SIR_NOPN_2_20200414T193755_20200414T193845_C001	Tide (GOT) Mean Dynamic Topography (1)	(solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPN_2_20200414T193733_20200414T193043_C001	Mean Sea Surface (1), Mean Dynamic	more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T210548_20200414T210851_C001	Topography (1) 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_20200414T210919_20200414T211049_C001	wean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-	more records I nere is an error with the iviean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium
CS_OFFL_SIR_NOPN_2_20200414T220429_20200414T220850_C001	Fauilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic	Long Period Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20200414T224601_20200414T224952_C001	Topography (1) iviean Sea Surrace (т), iviean Dynamic Topography (1), Total Geocentric Ocean	Topography height (solution 1) for one or more records r nere is an error with the ivion height (solution 1), the iviean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2:
CS_OFFL_SIR_NOPN_2_20200414T225503_20200414T225537_C001		FFS) and the Non-Equilibrium Long Period Ocean Tide for one or more There is an error with the Mean Dynamic Topography height for one or
CS_OFFL_SIR_NOPR_2_20200414T043240_20200414T043418_C001	Total Geocentric Ocean Tide (GOT),	more records There is an error with the Total Geocentric Ocean Tide neight (solution T: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean
CS_OFFL_SIR_NOPR_2_20200414T125023_20200414T130024_C001	Fauilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic Topography (1)	Tide height for one or more records 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_20200414T142258_20200414T142435_C001	Topography (1) Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20200414T143354_20200414T144142_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_20200414T161326_20200414T162446_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_20200414T175323_20200414T180114_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_20200414T193228_20200414T193755_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_20200414T210122_20200414T210222_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_20200414T211130_20200414T211824_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_20200414T224952_20200414T225503_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:

0

90

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_20200414T000029_20200414T002600_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_20200414T002726_20200414T003252_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_20200414T003258_20200414T003624_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_20200414T003930_20200414T011221_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_20200414T013530_20200414T013556_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_20200414T013558_20200414T013601_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_20200414T013648_20200414T015642_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_20200414T015916_20200414T020536_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_20200414T020727_20200414T021531_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_20200414T021844_20200414T025245_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_20200414T030605_20200414T030705_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_20200414T033519_20200414T033539_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_20200414T033545_20200414T034453_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_20200414T034702_20200414T035218_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_20200414T035816_20200414T042031_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_20200414T042316_20200414T043240_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_20200414T044418_20200414T044850_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_20200414T050323_20200414T050922_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_20200414T051109_20200414T052344_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_20200414T052831_20200414T053119_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_20200414T053802_20200414T060436_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_20200414T060615_20200414T060802_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_20200414T060807_20200414T061104_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_20200414T061243_20200414T061446_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_20200414T062728_20200414T063418_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_20200414T063434_20200414T065854_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_20200414T071716_20200414T072130_C001	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 set for one or more records.
CS_OFFL_SIR_NOPM_2_20200414T072220_20200414T073346_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_20200414T073348_20200414T074417_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_20200414T080223_20200414T080617_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_20200414T080743_20200414T081003_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_20200414T081115_20200414T082329_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_20200414T082948_20200414T084052_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_20200414T085005_20200414T085432_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_20200414T085627_20200414T091117_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_20200414T094945_20200414T095655_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_20200414T095818_20200414T102219_C001	· · · · · · · · · · · · · · · · · · ·	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200414T102453_20200414T103345_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_20200414T103603_20200414T105956_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_20200414T110553_20200414T110939_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_20200414T112654_20200414T120112_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_20200414T120710_20200414T121135_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_20200414T121502_20200414T123230_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200414T130835_20200414T134026_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_20200414T134624_20200414T135213_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_20200414T135346_20200414T141207_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_20200414T141209_20200414T141349_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20200414T143120_20200414T143211_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200414T144451_20200414T151923_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_20200414T152530_20200414T153044_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_20200414T153235_20200414T153529_C001	•	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200414T153730_20200414T154127_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_20200414T154727_20200414T155147_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_20200414T160800_20200414T161057_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_20200414T161116_20200414T161145_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_20200414T162446_20200414T163333_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_20200414T163619_20200414T165820_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_20200414T170400_20200414T170530_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20200414T171154_20200414T172455_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_20200414T172538_20200414T173359_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_20200414T173455_20200414T173900_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_20200414T180513_20200414T180901_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_20200414T181040_20200414T183713_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_20200414T183901_20200414T184429_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_20200414T184448_20200414T184717_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_20200414T185532_20200414T190802_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_20200414T190837_20200414T192541_C001	The state of the s	The Ocean Altimeter Range, SSHA, SWH 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_20200414T194915_20200414T195853_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_20200414T200056_20200414T201631_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_20200414T201828_20200414T202325_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_20200414T203229_20200414T204448_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_20200414T204928_20200414T210122_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_20200414T210222_20200414T210444_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_20200414T214019_20200414T215522_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_20200414T215751_20200414T220238_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_20200414T220850_20200414T223607_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_20200414T050111_20200414T050323_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_20200414T062225_20200414T062558_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_20200414T080617_20200414T080743_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_20200414T094039_20200414T094206_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_20200414T155147_20200414T155213_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_20200414T204551_20200414T204928_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_20200414T210548_20200414T210851_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_20200414T225503_20200414T225537_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_20200414T230444_20200414T230610_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_20200414T030808_20200414T030845_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_20200414T085612_20200414T085627_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_20200414T125023_20200414T130024_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_20200414T142010_20200414T142151_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_20200414T212246_20200414T212257_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: 81

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200414T003624_20200414T003745_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_20200414T011221_20200414T011711_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_20200414T012650_20200414T012757_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_20200414T021531_20200414T021643_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_20200414T025507_20200414T025639_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_20200414T031524_20200414T031704_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_20200414T032628_20200414T032739_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_20200414T052522_20200414T052831_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_20200414T062225_20200414T062558_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_20200414T071025_20200414T071243_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_20200414T071521_20200414T071652_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_20200414T074603_20200414T074815_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_20200414T080617_20200414T080743_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_20200414T082843_20200414T082948_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_20200414T084052_20200414T084709_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_20200414T085432_20200414T085612_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_20200414T093547_20200414T093621_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_20200414T094823_20200414T094945_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_20200414T095655_20200414T095818_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_20200414T103345_20200414T103545_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_20200414T110028_20200414T110324_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_20200414T110420_20200414T110553_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_20200414T110939_20200414T111109_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_20200414T111951_20200414T112437_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_20200414T121135_20200414T121406_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_20200414T142814_20200414T142937_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_20200414T143047_20200414T143120_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_20200414T152216_20200414T152530_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_20200414T153044_20200414T153158_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_20200414T160252_20200414T160343_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_20200414T165934_20200414T170400_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_20200414T173359_20200414T173455_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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## CODD - FAME -	CS_OFFL_SIR_NOPN_2_20200414T174910_20200414T175120_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
Col. CPF- BR NOTE 2 NOTICE-173044 200041-173050 CB1 CR. CPF- BR NOTE 2 NOTICE-173040 CB	CS_OFFL_SIR_NOPN_2_20200414T183740_20200414T183901_C001	and Backscatter Quality PLRM, 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.
Column	CS_OFFL_SIR_NOPN_2_20200414T184717_20200414T184905_C001	and Backscatter Quality PLRM, 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.
DESCRIPTION NOTAL 2 2022914 (TOMOSE) 2022914 (TOMOSE) 0001 CESTRE BIR NOTAL 2 2022914 (TOMOSE) 202	CS_OFFL_SIR_NOPN_2_20200414T201645_20200414T201828_C001	and Backscatter Quality PLRM, 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_OPTL_S R_NORW_2_00000141720018_00001 CS_OPTL_S R_NORW_2_0000141720018_00001400000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20200414T202525_20200414T202752_C001	and Backscatter Quality PLRM, 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.
### Bedassend Cash (P.E.). COCO Annual Recognition (1.5) (1.	CS_OFFL_SIR_NOPN_2_20200414T204551_20200414T204928_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OBJ. OFFL. SR. NOPR. 2. 2020441720105 2020441720505 COV. CS. OFFL. SR. NOPR. 2. 2020441720405 2020441720505 COV. CS. OFFL. SR. NOPR. 2. 2020441720504 2. 2020441720505 COV. CS. OFFL. SR. NOPR. 2. 2020441720504 2. 2020441720505 COV. CS. OFFL. SR. NOPR. 2. 2020441720504 2. 2020441720505 COV. CS. OFFL. SR. NOPR. 2. 2020441720504 2. 2020441720505 COV. CS. OFFL. SR. NOPR. 2. 2020441720605 COV. CS. OFFL. SR. N	CS_OFFL_SIR_NOPN_2_20200414T210548_20200414T210851_C001	and Backscatter Quality PLRM, 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.
OCC Backscater Quality PLRM OCC Mirretor Range Quality PLRM OCC Backscater Quality PLRM OCC Backscat	CS_OFFL_SIR_NOPN_2_20200414T210919_20200414T211049_C001	and Backscatter Quality PLRM, 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.
OCOS Allement Range SPH, SVH and Backscatter Quality OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range Quality PLRM. OCOS Backscatter Quality OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range Quality PLRM. OCOS Backscatter Quality OCOS Allement Range Quality PLRM. OCOS Backscatter Quality OCOS Allement Range Quality PLRM. OCOS Backscatter Quality OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range Quality PLRM. OCOS Range and Backscatter Quality Flags have been set for or more records. OCOS Allement Range SSHA SVH and Backscatter Quality	CS_OFFL_SIR_NOPN_2_20200414T220429_20200414T220850_C001	•	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Backscatter Quality CS_OFFL_SR_NOPN_2_202004147230708_20200414723108_CO01 CS_OFFL_SR_NOPN_2_20200414723108_20200414723108_CO01 CS_OFFL_SR_NOPR_2_20200414703746_20200414703093_CO01 CS_OFFL_SR_NOPR_2_20200414703746_20200414703093_CO01 CS_OFFL_SR_NOPR_2_20200414703746_20200414703093_CO01 CS_OFFL_SR_NOPR_2_202004147012636_20200414703093_CO01 CS_OFFL_SR_NOPR_2_202004147012636_20200414701264_CO01 CS_OFFL_SR_NOPR_2_202004147012636_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012646_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012646_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012646_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012646_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012646_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012646_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012650_CO01 CS_OFFL_SR_NOPR_2_202004147012650_CO01 CS_OFFL_SR_NOPR_2_20200414701060_CO01 CS_OFFL_SR_NOPR_2_2020041470106	CS_OFFL_SIR_NOPN_2_20200414T224339_20200414T224503_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_2020014703745_20200414T03939_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03939_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03939_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03939_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03939_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03939_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03939_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03839_C001 CS_OFFL_SIR_NOPR_2_20200414T0303745_20200414T03839_C001 CS_OFFL_SIR_NOPR_2_20200414T030393_C001 CS_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CS_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CS_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CS_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CS_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CS_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CS_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_C001041704803_C001 CCC_OFFL_SIR_NOPR_2_20200414T03003_	CS_OFFL_SIR_NOPN_2_20200414T230444_20200414T230610_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200414T03345_20200414T03830_C001 CS_OFFL_SIR_NOPR_2_20200414T01255_20200414T01255_C001 CS_OFFL_SIR_NOPR_2_20200414T01255_20200414T01255_C001 CS_OFFL_SIR_NOPR_2_20200414T01255_20200414T01255_C001 CS_OFFL_SIR_NOPR_2_20200414T01255_20200414T01255_C001 CS_OFFL_SIR_NOPR_2_20200414T01255_20200414T01255_C001 CS_OFFL_SIR_NOPR_2_20200414T01255_20200414T01255_C001 CS_OFFL_SIR_NOPR_2_20200414T01255_20200414T01255_C001 CS_OFFL_SIR_NOPR_2_20200414T031008_20200414T031014_C001 CS_OFFL_SIR_NOPR_2_20200414T031008_20200414T03105_C001 CS_OFFL_SIR_NOPR_2_20200414T03105_20200414T033519_C001 CS_OFFL_SIR_NOPR_2_20200414T03550_20200414T03555_C001 CS_OFFL_SIR_NOPR_2_20200414T03555_C001 CS_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_NOPR_2_20200414T04555_C001 CCC_OFFL_SIR_N	CS_OFFL_SIR_NOPN_2_20200414T230708_20200414T231000_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
All Backscater Quality FLRM, COCO Allmoter Range and Backscater Quality Flags have been set for or or or more records. CS_OFFL_SIR_NOPR_2_20200414T012526_20200414T012541_CO01 CS_OFFL_SIR_NOPR_2_20200414T012526_20200414T012591_CO01 CS_OFFL_SIR_NOPR_2_20200414T012545_20200414T012590_CO01 CS_OFFL_SIR_NOPR_2_20200414T012545_20200414T012590_CO01 CS_OFFL_SIR_NOPR_2_20200414T012545_20200414T012590_CO01 CS_OFFL_SIR_NOPR_2_20200414T012545_20200414T012590_CO01 CS_OFFL_SIR_NOPR_2_20200414T012545_20200414T012590_CO01 CS_OFFL_SIR_NOPR_2_20200414T010545_20200414T01104_CO01 CS_OFFL_SIR_NOPR_2_20200414T01050_20200414T01104_CO01 CS_OFFL_SIR_NOPR_2_20200414T01000_20200414T01104_CO01 CS_OFFL_SIR_NOPR_2_20200414T01000_20200414T01104_CO01 CS_OFFL_SIR_NOPR_2_20200414T01000_20200414T0104104_CO01 CS_OFFL_SIR_NOPR_2_20200414T01000_20200414T001104_CO01 CS_OFFL_SIR_NOPR_2_20200414T01000_20200414T001104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T001104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T001104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T001104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T00104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T00104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T00104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T00104_CO01 CS_OFFL_SIR_NOPR_2_20200414T00100_20200414T00104_CO01 CS_OFFL_SIR_NOPR_2_20200414T001000	CS_OFFL_SIR_NOPN_2_20200414T231035_20200414T231038_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
SOFFL SIR_NOPR_2_20200414T01256_20200414T012841_C001 and Backscatter Quality PLRM, COOG Altimeter Range and Backscatter Quality Plags have been set for or or or or more records. CS_OFFL_SIR_NOPR_2_20200414T012645_20200414T012850_C001 CS_OFFL_SIR_NOPR_2_20200414T012645_20200414T031104 C001 CS_OFFL_SIR_NOPR_2_20200414T031008_20200414T031104 C001 CS_OFFL_SIR_NOPR_2_20200414T031008_20200414T031104 C001 CS_OFFL_SIR_NOPR_2_20200414T033219_20200414T033519_C001 CS_OFFL_SIR_NOPR_2_20200414T035524_20200414T035816_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T045403_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T045403_C001 CS_OFFL_SIR_NOPR_2_20200414T04850_20200414T045235_C001 CCCG_Attimeter Range_Duality PLRM, C006 Backscatter Quality CCCG_Backscatter Quality CCC	CS_OFFL_SIR_NOPR_2_20200414T003745_20200414T003930_C001	and Backscatter Quality PLRM, 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.
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter 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 and Backscatter Quality PLRM, OCOG Backscatter Quali	CS_OFFL_SIR_NOPR_2_20200414T012526_20200414T012641_C001	and Backscatter Quality PLRM, 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.
and Backscatter Quality PLRM, COCG Altimeter Range and Backscatter Quality PLRM, COCG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200414T031008_20200414T031104_C001 CS_OFFL_SIR_NOPR_2_20200414T033219_20200414T033519_C001 CS_OFFL_SIR_NOPR_2_20200414T033219_20200414T033519_C001 CS_OFFL_SIR_NOPR_2_20200414T03524_20200414T035616_C001 CS_OFFL_SIR_NOPR_2_20200414T044850_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045202_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045205_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045205_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045205_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045205_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045205_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 Altimeter Range Quality PLRM, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCG_G Range and Backscatter Quality Flags have been set for one or more records. CCG_G Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200414T012645_20200414T012650_C001	and Backscatter Quality PLRM, 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 20200414T031008 20200414T031104 C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have best for one or more records. CS OFFL SIR NOPR 2 20200414T033219 20200414T033519 C001 CS OFFL SIR NOPR 2 20200414T033219 20200414T035816 C001 CS OFFL SIR NOPR 2 20200414T035524 20200414T035816 C001 CS OFFL SIR NOPR 2 20200414T04850 20200414T045235 C001 CS OFFL SIR NOPR 2 20200414T04850 20200414T045235 C001 CS OFFL SIR NOPR 2 20200414T04850 20200414T045235 C001 CS OFFL SIR NOPR 2 20200414T04850 20200414T045403 C001 CS OFFL SIR NOPR 2 20200414T04850 20200414T045403 C001 CS OFFL SIR NOPR 2 20200414T045250 20200414T045403 C001 CS OFFL SIR NOPR 2 20200414T053609 20200414T045403 C001 CS OFFL SIR NOPR 2 20200414T053609 20200414T053802 C001 CS OFFL SIR NOPR 2 20200414T061154 20200414T061209 C0	CS_OFFL_SIR_NOPR_2_20200414T021643_20200414T021844_C001	and Backscatter Quality PLRM, 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.
OCOG Backscatter Quality CS_OFFL_SIR_NOPR_2_20200414T035524_20200414T035816_C001 CS_OFFL_SIR_NOPR_2_20200414T035524_20200414T035816_C001 CS_OFFL_SIR_NOPR_2_20200414T044850_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T044850_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045403_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045403_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T081209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T081209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T081209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061	CS_OFFL_SIR_NOPR_2_20200414T031008_20200414T031104_C001	and Backscatter Quality PLRM, 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_20200414T035524_20200414T035816_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for or more records. CS_OFFL_SIR_NOPR_2_20200414T044850_20200414T045235_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045403_C001 CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045403_C001 CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CCGG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for or more records. CCGG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for or more records. CCGG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for or more records. CCGG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for or more records. CCGG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for or more records.	CS_OFFL_SIR_NOPR_2_20200414T033219_20200414T033519_C001	•	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Backscatter Quality CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045403_C001 CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for or more records. CCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for or more records.	CS_OFFL_SIR_NOPR_2_20200414T035524_20200414T035816_C001	and Backscatter Quality PLRM, 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_20200414T045250_20200414T0453609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 CS_OFFL_SIR_NOPR_2_20200414T092802	CS_OFFL_SIR_NOPR_2_20200414T044850_20200414T045235_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for or more records. The OCOG Range and Backscatter Quality Flags have been set for or more records. The OCOG Range and Backscatter Quality Flags have been set for or more records. The OCOG Range and Backscatter Quality Flags have been set for or more records.	CS_OFFL_SIR_NOPR_2_20200414T045250_20200414T045403_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001 OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for or more records. The OCOG Range and Backscatter Quality Flags have been set for or more records.	CS_OFFL_SIR_NOPR_2_20200414T053609_20200414T053802_C001	and Backscatter Quality PLRM, 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.
OCOG Backscatter Quality more records. OCOG Backscatter Quality PLRM The OCOG Range and Backscatter Quality Flags have been set for or	CS_OFFL_SIR_NOPR_2_20200414T061154_20200414T061209_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for or	CS_OFFL_SIR_NOPR_2_20200414T092802_20200414T092830_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Backscatter Quality more records.	CS_OFFL_SIR_NOPR_2_20200414T093434_20200414T093511_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20200414T093512_20200414T093547_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_20200414T094613_20200414T094653_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
C3_O11 L_311_1\01 1_2_202004141094013_202004141094033_C001	OCOG Backscatter Quality	more records.
CS_OFFL_SIR_NOPR_2_20200414T125023_20200414T130024_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_20200414T142937_20200414T143013_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_20200414T143354_20200414T144142_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_20200414T151923_20200414T152216_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_20200414T153158_20200414T153235_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_20200414T154128_20200414T154727_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_20200414T161145_20200414T161319_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_20200414T161326_20200414T162446_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_20200414T175323_20200414T180114_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_20200414T180209_20200414T180321_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_20200414T193228_20200414T193755_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_20200414T194337_20200414T194339_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_20200414T194344_20200414T194458_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_20200414T202752_20200414T203031_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_20200414T210122_20200414T210222_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_20200414T211130_20200414T211824_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_20200414T212246_20200414T212257_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_20200414T213204_20200414T213320_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_20200414T213324_20200414T214019_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_20200414T224952_20200414T225503_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_20200414T225538_20200414T225713_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

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:

51

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:

129