

1. Overview

Report Production:	13-Jun-2023
Processor Used:	CryoSat Ocean Processor
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data

	We	would	love	to hear	from y	/ou!	
e	let u	s know	vour	feedbac	k abou	t these	(

Pleas quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1 and 7.2

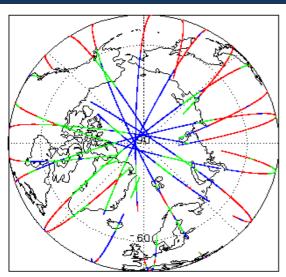
Mission / Instrument News

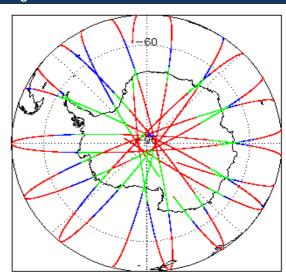
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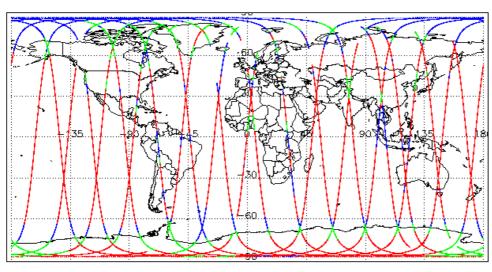
12-Jun-2023 Due to the Orbit Control Manoeuvre, SIRAL was unavailable from 2023-06-12 17:39:35 to 2023-06-12 19:06:27

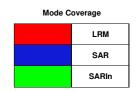
13-Jun-2023 Nothing planned

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 NetCDF product file (.nc).

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 NOPR and NOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

> Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. The attitude correction is not actually missing, 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_20230612T023535_20230612T023929_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20230612T120800_20230612T121113_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 occasional products over land, but this is to be expected.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20230612T024310_20230612T030917_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230612T052312_20230612T052859_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230612T071149_20230612T071309_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20230612T155518_20230612T162221_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230612T055221_20230612T055402_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230612T103533_20230612T103931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230612T103951_20230612T104119_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230612T113405_20230612T114020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230612T222340_20230612T2222453_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20230612T225923_20230612T230153_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230612T054151_20230612T054201_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230612T090207_20230612T090933_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230612T112429_20230612T112532_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230612T121244_20230612T121456_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20230612T153527_20230612T154245_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 NetCDF product file (.nc).

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.

lumber of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

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 Corection, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.
- > Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

CS_OFFL_SIR_NOPM_2_20230612T152842_20230612T152856_C001	Test Failed Mean Dynamic Topography (1) Mean Dynamic Topography (1)	Description There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20230612T214220_20230612T215113_C001	Mean Dynamic Topography (1)	There is an array with the Marris Demants Trans.
		There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20230612T004911_20230612T005131_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	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_20230612T022849_20230612T023327_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_20230612T031129_20230612T031306_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS OFFE SIB NOPN 2 202306121063055 202306121063411 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_20230612T063924_20230612T064046_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	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
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	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_20230612T122559_20230612T122610_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_20230612T122610_20230612T122715_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS OFFE SIB NOPN 2 202306121135903 202306121135958 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_20230612T145427_20230612T145541_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_20230612T152646_20230612T152842_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_20230612T163332_20230612T163452_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_20230612T171126_20230612T171249_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_20230612T190627_20230612T190802_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230612T194315_20230612T194430_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic Topography (1)	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_20230612T213217_20230612T213457_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_20230612T221218_20230612T221357_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_20230612T221915_20230612T222034_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230612T222340_20230612T222453_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_20230612T225923_20230612T230153_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_20230612T235836_20230613T000050_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_20230612T001958_20230612T002737_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_20230612T022459_20230612T022849_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_20230612T040409_20230612T040713_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_20230612T040823_20230612T040933_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_20230612T054205_20230612T055018_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_20230612T072237_20230612T073132_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_20230612T090207_20230612T090933_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_20230612T104119_20230612T104639_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_20230612T122011_20230612T122559_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_20230612T135834_20230612T135903_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_20230612T135958_20230612T140351_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_20230612T153527_20230612T154245_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_20230612T171630_20230612T171935_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_20230612T224135_20230612T224349_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230612T023535_20230612T023929_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_20230612T120800_20230612T121113_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 (20 Hz)

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
	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_20230612T000554_20230612T001958_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_20230612T010701_20230612T013025_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

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SO, OFF. Jiff. JOPNAY_RECORDITIONS _ RECORDITIONS _ COUNTY The County Allered Plags and September County Fings rave bear COUNTY JIFF. JOPNAY _ RECORDITIONS _ RECORDITIONS _ COUNTY The County Allered Plags and September COUNTY JIFF. JOPNAY _ RECORDITIONS _ RECORDITIONS _ COUNTY The County Allered Plags and September COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County Allered Plags and September COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County JIFF. JOPNAY _ RECORDITIONS _ COUNTY COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County JIFF. JOPNAY _ RECORDITIONS _ COUNTY COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County JIFF. JOPNAY _ RECORDITIONS _ COUNTY COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County JIFF. JOPNAY _ RECORDITIONS _ COUNTY COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County JIFF. JOPNAY _ RECORDITIONS _ COUNTY COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY The County JIFF. JOPNAY _ COUNTY JIFF. JOPNAY _ COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY JIFF. JOPNAY _ COUNTY JIFF. JOPNAY _ RECORDITIONS _ COUNTY JIFF. JOPNAY _ COUNTY JI	CS_OFFL_SIR_NOPM_2_20230612T013340_20230612T014209_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Col. City. Set NOPM 2 2000017100017 2000	CS_OFFL_SIR_NOPM_2_20230612T014538_20230612T021016_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Sectioned Guarder (Justine) Col., OFFE_SIR_NOPM_2_90008817790845 28000817000821_0001 Col., OFFE_SIR_NOPM_2_90008817790845 28000817000821_0001 Col., OFFE_SIR_NOPM_2_90008817790845 28000817000821_0001 Col., OFFE_SIR_NOPM_2_90008817908022_9000817000821_0001 Col., OFFE_SIR_NOPM_2_9000881790802_9000817000821_0001 Col., OFFE_SIR_NOPM_2_9000881790802_9000817000821_0001 Col., OFFE_SIR_NOPM_2_9000881790802_900081700082_0001 Col., OFFE_SIR_NOPM_2_9000881790802_900081700082_0001 Col., OFFE_SIR_NOPM_2_9000881790802_900081700082_0001 Col., OFFE_SIR_NOPM_2_9000881790802_90008700082_0001 Col., OFFE_SIR_NOPM_2_9000881790802_90008700082_0001 Col., OFFE_SIR_NOPM_2_9000881790802_90008700082_0001 Col., OFFE_SIR_NOPM_2_9000881790802_900087000882_0001 Col., OFFE	CS_OFFL_SIR_NOPM_2_20230612T024310_20230612T030917_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SC GFFL SR NOPM 2 RECORDITIONS (2020017104075). CORD Afferdam Flange and Backesster Caushy Flags have been set with the control of the contro	CS_OFFL_SIR_NOPM_2_20230612T031553_20230612T032010_C001		
Society County C	CS_OFFL_SIR_NOPM_2_20230612T032432_20230612T035002_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
SQ. GFE_SIR_NOPM_2_20200612T003187_20206612T003192_0001612T0041901 CS_GFE_SIR_NOPM_2_20200612T002318_20206612T003192_0001612T0041901 CS_GFE_SIR_NOPM_2_20200612T002318_20206612T003192_0001612T0041901 CS_GFE_SIR_NOPM_2_20200612T002319_20206612T003192_0001612T0041901 CS_GFE_SIR_NOPM_2_20200612T003192_0001612T0041901 CS_GFE_SIR_NOPM_2_20200612T003192_0001612T004190_0001612T00419001 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004190_0001612T00419001 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T0041901 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004191_2001001 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004191_2001001 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004191_2001001 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004191_2001001 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004192_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004192_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004192_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004192_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004400_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004400_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004400_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004400_00101 CS_GFE_SIR_NOPM_2_20200612T004191_20200612T004400_00101 CS_GFE_SIR	CS_OFFL_SIR_NOPM_2_20230612T035005_20230612T035321_C001		
CS_OFF_SRI_NOPM_2_20200812T050372_02200812T050582_0001 CS_OFF_SRI_NOPM_2_20200812T050372_02200812T050589_0001 CS_OFF_SRI_NOPM_2_20200812T050372_02200812T050589_0001 CS_OFF_SRI_NOPM_2_20200812T050540_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T05040_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T050400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T050400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T050400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T050400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T070400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T070400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T070400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T070400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T070400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T070400_00010708720_0001 CS_OFF_SRI_NOPM_2_20200812T070400_00010707040_0001 CS_OFF_SRI_NOPM_2_20200812T080101_00000107004140_00010707040_0001 CS_OFF_SRI_NOPM_2_20200812T080101_00000107004140_0001070400000107040000000000	CS_OFFL_SIR_NOPM_2_20230612T041627_20230612T044755_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Be-Sociator Guilty, COCO Almoter Fange and Be-Sociator Guilty Fange fange and	CS_OFFL_SIR_NOPM_2_20230612T045506_20230612T050051_C001		
and DecoCod Attreeter Range and Backscatter Quality Flags have been Attreeter Range, SSIA, SWH and Backscatter Quality Code Attreeter Range, SSIA, SWH and Backscatter Quality Code Attreeter Range, SSIA, SWH and Backscatter Quality Code Attreeter Range and Backscatter Quality Code Attreeter Range, SSIA, SWH and Backscatter Quality Code Attreeter Range, SSIA, SWH and Backscatter Quality Code Attreeter Range and Backscatter Quality Code Attreeter Range, SSIA, SWH and Backscatter Quality Code Attreeter Range and Backscatter Quality Code Attreeter Range and Backscatter Quality Range have been set or one or more records. CS_OFFL_SIR_NOPM_2_20230612707042_2000127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071901_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071901_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127080610_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127080610_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127080610_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127081630_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127081630_0001 CS_OFFL_SIR_NOPM_2_202306127071901_202306127081630_0001 CS_OFFL_SIR_NOPM_2_202306127080610_0001 CS_OF	CS_OFFL_SIR_NOPM_2_20230612T050337_20230612T050832_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGA Althreter Range and Backscatter Quality Flags have been set to one or more record. CS_OFFL_SIR_NOPM_2_20230612T069401_20230612T070947_CO11 CS_OFFL_SIR_NOPM_2_20230612T09400_20230612T070947_CO11 CS_OFFL_SIR_NOPM_2_20230612T09400_20230612T070947_CO11 CS_OFFL_SIR_NOPM_2_20230612T09400_20230612T070947_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_20230612T070947_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T09113_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T09113_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T09113_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T09113_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T09113_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T09113_20230612T08010_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_CO11 CS_OFFL_SIR_NOPM_2_20230612T0910_200012T09300_CO11 CS_OFFL_SIR_NOPM_2_20230612T090040_CO11 CS_OFFL_SIR_NOPM_2_20230612T090040_CO11 CS_OFFL_SIR_NOPM_2_20230612T090040_CO11 CS_OFFL_SIR_NOPM_2_20230612T090040_CO11 CS_OFFL_SIR_NOPM_2_20230612T090040_CO11 CS_OFFL_SIR_NOPM_2_20230612T090033_20230612T090040_CO11 CS_OFFL_SIR_NOPM_2_20230612T090033_202	CS_OFFL_SIR_NOPM_2_20230612T052312_20230612T052859_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Bedescater Quality CS_OFFL_SIR_NOPM_2_202306127064309_202306127070942_C001 CS_OFFL_SIR_NOPM_2_202306127079101_e02306127071942_C001 CS_OFFL_SIR_NOPM_2_202306127079101_e02306127071942_C001 CS_OFFL_SIR_NOPM_2_202306127079101_e02306127071942_C001 CS_OFFL_SIR_NOPM_2_202306127079101_e02306127071942_C001 CS_OFFL_SIR_NOPM_2_202306127079133_2023061270810121_C001 CS_OFFL_SIR_NOPM_2_202306127079133_202306127080101_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708101_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708101_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708101_C001 CS_OFFL_SIR_NOPM_2_20230612708131_20230612708101_C001 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708101_C001 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_C001 CS_OFFL_SIR_NOPM_2_202306127080933_20330612708010_C001 CS_OFFL_SIR_NOPM_2_202306127080933_203306127090105_C001 CS_OFFL_SIR_NOPM_2_202306127090933_203306127090105_C001 CS_OFFL_SIR_NOPM_2_202306127090332_203306127090105_C001	CS_OFFL_SIR_NOPM_2_20230612T055402_20230612T062726_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Ouality Flags have been self to consort more records. CS_OFFL_SIR_NOPM_2_202306127091901_202306127071942_CO01 CS_OFFL_SIR_NOPM_2_202306127071901_202306127071942_CO01 CS_OFFL_SIR_NOPM_2_202306127073133_202306127080121_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708010_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708000_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708000_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708000_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708000_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708000_CO01 CS_OFFL_SIR_NOPM_2_202306127080131_20230612708000_CO01 CS_OFFL_SIR_NOPM_2_202306127080000_CO01 CS_OFFL_SIR_NOPM_2_2023061270800000000000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20230612T063411_20230612T063923_C001		
CS_OFFL_SIR_NOPM_2_20230612T073133_20230612T080121_C001 CS_OFFL_SIR_NOPM_2_20230612T080131_20230612T080101_C001 CS_OFFL_SIR_NOPM_2_20230612T080131_20230612T080101_C001 CS_OFFL_SIR_NOPM_2_20230612T080131_20230612T080101_C001 CS_OFFL_SIR_NOPM_2_20230612T080131_20230612T080101_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T080131_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084001_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084001_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084001_C001 CS_OFFL_SIR_NOPM_2_20230612T08033_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T080933_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T080933_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T080933_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T080933_20230612T090307_C001 CS_OFFL_SIR_NOPM_2_20230612T080934_20230612T090307_C001 CS_OFFL_SIR_NOPM_2_20230612T080934_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T080934_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T080934_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T090934_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093094_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093094_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093094_20230612T093097_C001 CS_OFFL_SIR_NOPM_2_20230612T093094_20230612T093097_C	CS_OFFL_SIR_NOPM_2_20230612T064309_20230612T070047_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230612T080131_20230612T080610_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081418_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081418_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081418_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T08401_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T080401_C001 CS_OFFL_SIR_NOPM_2_20230612T0805945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T0805945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T0805945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T0805945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T090033_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T090033_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T090033_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T090033_20230612T090037_C001 CS_OFFL_SIR_NOPM_2_20230612T090033_20230612T090037_C001 CS_OFFL_SIR_NOPM_2_20230612T090033_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T090037_20201 CS_OFFL_SIR_NOPM_2_20230612T093037_202001 CS_OFFL_SIR_NOPM_2_20230612T093037_2020012T093039_C001 CS_OFFL_SIR_NOPM_2_20230612T093039_2020012T093039_C001 CS_OFFL_SIR_NOPM_2_20230612T093039_2020012T093039_C001 CS_OFFL_SIR_NOPM_2_20230612T093039_2020012T093039_C001 CS_OFFL_SIR_NOPM_2_20230612T093039_	CS_OFFL_SIR_NOPM_2_20230612T071901_20230612T071942_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been at the coco Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_202306127081213_202306127081412_CO01 CS_OFFL_SIR_NOPM_2_202306127081418_202306127081833_CO01 CS_OFFL_SIR_NOPM_2_202306127081418_202306127081833_CO01 CS_OFFL_SIR_NOPM_2_202306127082311_202306127084801_CO01 CS_OFFL_SIR_NOPM_2_202306127082311_2023061270804801_CO01 CS_OFFL_SIR_NOPM_2_202306127085945_202306127090048_CO01 CS_OFFL_SIR_NOPM_2_202306127080933_202306127090048_CO01 CS_OFFL_SIR_NOPM_2_202306127080933_202306127093037_CO01 CS_OFFL_SIR_NOPM_2_202306127080044_202306127093037_CO01 CS_OFFL_SIR_NOPM_2_202306127093044_202306127093037_CO01 CS_OFFL_SIR_NOPM_2_202306127093042_2023	CS_OFFL_SIR_NOPM_2_20230612T073133_20230612T080121_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality for one or more records CS_OFFL_SIR_NOPM_2_20230612T081418_20230612T081833_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084801_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084801_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084801_C001 CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T085945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T085945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T08033_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T09033_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T09033_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T091608_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T0930355_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093359_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093555_C001 CS_OFFL_SIR_NOPM_2_20230612T0930575_20230612T093555_C001 CS_OFFL_SIR_NOPM_2_20230612T0930575_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T0945311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OF	CS_OFFL_SIR_NOPM_2_20230612T080131_20230612T080610_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084801_C001 CS_OFFL_SIR_NOPM_2_20230612T085945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T095945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T090933_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T090933_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T090933_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T091608_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T091608_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093034_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093037_C001 CC_ORALImeter Range and Backscatter Quality C	CS_OFFL_SIR_NOPM_2_20230612T081213_20230612T081412_C001		
CS_OFFL_SIR_NOPM_2_20230612T085945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T085945_20230612T090048_C001 CS_OFFL_SIR_NOPM_2_20230612T090933_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T090933_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T090933_20230612T091517_C001 CS_OFFL_SIR_NOPM_2_20230612T091608_20230612T093037_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093055_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093555_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093555_C001 CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093555_C001 CS_OFFL_SIR_NOPM_2_20230612T093012_20230612T093555_C001 CS_OFFL_SIR_NOPM_2_20230612T093012_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093012_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093012_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093012_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093012_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_	CS_OFFL_SIR_NOPM_2_20230612T081418_20230612T081833_C001		
Backscatter Quality CS_OFFL_SIR_NOPM_2_20230612T09033_20230612T091517_C001 Backscatter Quality Coean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093755_C001 CS_OFFL_SIR_NOPM_2_20230612T093757_20230612T093859_C001 CS_OFFL_SIR_NOPM_2_20230612T093757_20230612T093859_C001 CS_OFFL_SIR_NOPM_2_20230612T093757_20230612T093859_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T0945311_C001 CS_OFFL_SIR_NOPM_2_20230612T1094750_20230612T095311_C001 CCEAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCEAN Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCEAN Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCEAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCEAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCEAN Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CCCEAN Altimeter Range S	CS_OFFL_SIR_NOPM_2_20230612T082311_20230612T084801_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality	CS_OFFL_SIR_NOPM_2_20230612T085945_20230612T090048_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Set for one or more records CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 OCGA Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001 The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_NOPM_2_20230612T090933_20230612T091517_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20230612T093757_20230612T093859_C001 CS_OFFL_SIR_NOPM_2_20230612T093757_20230612T093859_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T0945311_C001 CS_OFFL_SIR_NOPM_2_20230612T10422_20230612T104436_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T10422_20230612T104436_C001 Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CCS_OFFL_SIR_NOPM_2_20230612T10422_20230612T104436_C001 CCS_OFFL_SIR_NOPM_2_20230612T10422_20230612T104436_C001 CCS_OFFL_SIR_NOPM_2_20230612T10422_20230612T104436_C001 CCS_OFFL_SIR_NOPM_2_20230612T10422_20230612T104436_C001 CCS_OFFL_SIR_NOPM_2_20230612T104422_20230612T104436_C001	CS_OFFL_SIR_NOPM_2_20230612T091608_20230612T093037_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230612T093757_20230612T093859_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094532_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T094750_20230612T094750_20230612T094750_20230612T094750_20230612T094750_20230612T094750_20230612T094750_20230612T094750_20230612T094750_20230612T10446_C001 CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001 CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001 And Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001	CS_OFFL_SIR_NOPM_2_20230612T093044_20230612T093755_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001 CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001 and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20230612T093757_20230612T093859_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality Backscatter Quality for one or more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20230612T093912_20230612T094532_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20230612T094750_20230612T095311_C001		
	CS_OFFL_SIR_NOPM_2_20230612T100422_20230612T101436_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20230612T101826_20230612T102717_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20230612T102843_20230612T103533_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_20230612T105743_20230612T110747_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_20230612T110950_20230612T111232_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_20230612T111823_20230612T112428_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_20230612T112717_20230612T113212_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_20230612T114047_20230612T114418_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_20230612T115816_20230612T120726_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_20230612T120800_20230612T121113_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_20230612T124834_20230612T130325_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_20230612T130656_20230612T131141_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_20230612T131846_20230612T134454_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_20230612T141754_20230612T144253_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_20230612T145754_20230612T152426_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_20230612T155307_20230612T155515_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_20230612T155518_20230612T162221_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_20230612T162511_20230612T162956_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_20230612T163754_20230612T171126_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_20230612T192233_20230612T192846_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_20230612T192912_20230612T193942_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_20230612T194430_20230612T194924_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_20230612T195626_20230612T202839_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_20230612T202843_20230612T203244_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_20230612T205027_20230612T205241_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_20230612T205406_20230612T211703_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_20230612T212638_20230612T212830_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_20230612T213607_20230612T214134_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_20230612T214142_20230612T214218_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_20230612T214220_20230612T215113_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_20230612T215116_20230612T220516_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_20230612T222035_20230612T2222340_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_20230612T222610_20230612T224135_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_20230612T224349_20230612T225844_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_20230612T230529_20230612T230744_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_20230612T230825_20230612T231244_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_20230612T231511_20230612T232923_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_20230612T233103_20230612T234714_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_20230612T023929_20230612T024133_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_20230612T053905_20230612T053953_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_20230612T063924_20230612T064046_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_20230612T113241_20230612T113248_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_20230612T145056_20230612T145102_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_20230612T154424_20230612T154445_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_20230612T014406_20230612T014537_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_20230612T055141_20230612T055221_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_20230612T110747_20230612T110949_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_20230612T123221_20230612T123248_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_20230612T144253_20230612T144423_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_20230612T153527_20230612T154245_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz 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_20230612T004911_20230612T005131_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 OFFE SIR NOPN 2 202306121013149 202306121013339 C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records

	1	
CS_OFFL_SIR_NOPN_2_20230612T014209_20230612T014406_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_20230612T021016_20230612T021356_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_20230612T022315_20230612T022458_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_20230612T022849_20230612T023327_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_20230612T031129_20230612T031306_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_20230612T032010_20230612T032301_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_20230612T040713_20230612T040823_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_20230612T053657_20230612T053820_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_20230612T055018_20230612T055141_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_20230612T055221_20230612T055402_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_20230612T063055_20230612T063411_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_20230612T063924_20230612T064046_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_20230612T070048_20230612T070345_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_20230612T071146_20230612T071149_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_20230612T072040_20230612T072237_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_20230612T080811_20230612T081213_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_20230612T081833_20230612T081940_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_20230612T085732_20230612T085945_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_20230612T103533_20230612T103931_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_20230612T103951_20230612T104119_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_20230612T104640_20230612T104820_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_20230612T105415_20230612T105743_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_20230612T113241_20230612T113248_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_20230612T113405_20230612T114020_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_20230612T121557_20230612T122011_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_20230612T122559_20230612T122610_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_20230612T122610_20230612T122715_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_20230612T131323_20230612T131645_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_20230612T135234_20230612T135357_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_20230612T135444_20230612T135833_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_20230612T135903_20230612T135958_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_20230612T140956_20230612T141011_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_20230612T152646_20230612T152842_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_20230612T154245_20230612T154407_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_20230612T162347_20230612T162511_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_20230612T163332_20230612T163452_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_20230612T171126_20230612T171249_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_20230612T171328_20230612T171454_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_20230612T190627_20230612T190802_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_20230612T190935_20230612T190952_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_20230612T191917_20230612T192233_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_20230612T194315_20230612T194430_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_20230612T212402_20230612T212637_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_20230612T212831_20230612T213016_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_20230612T222459_20230612T222608_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_20230612T231244_20230612T231421_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_20230612T001958_20230612T002737_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_20230612T002737_20230612T002847_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_20230612T004304_20230612T004452_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_20230612T005441_20230612T005704_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_20230612T022026_20230612T022252_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_20230612T022459_20230612T022849_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_20230612T030917_20230612T031128_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_20230612T040409_20230612T040713_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

	Ocean Altimeter Range, SSHA, SWH	
CS_OFFL_SIR_NOPR_2_20230612T040823_20230612T040933_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20230612T044755_20230612T045118_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_20230612T051743_20230612T052117_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_20230612T053600_20230612T053657_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_20230612T053820_20230612T053848_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_20230612T054205_20230612T055018_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_20230612T055141_20230612T055221_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_20230612T062726_20230612T063054_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_20230612T064046_20230612T064309_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_20230612T072237_20230612T073132_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_20230612T080610_20230612T080811_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_20230612T090207_20230612T090933_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_20230612T095725_20230612T100422_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_20230612T104119_20230612T104639_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_20230612T115301_20230612T115618_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_20230612T115633_20230612T115815_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_20230612T121244_20230612T121456_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_20230612T122011_20230612T122559_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_20230612T124052_20230612T124833_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_20230612T130325_20230612T130452_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_20230612T131645_20230612T131846_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_20230612T134454_20230612T134623_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_20230612T135958_20230612T140351_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_20230612T144253_20230612T144423_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_20230612T145542_20230612T145754_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_20230612T153527_20230612T154245_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_20230612T154445_20230612T154714_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_20230612T163452_20230612T163754_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_20230612T171249_20230612T171327_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_20230612T171455_20230612T171630_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_20230612T171630_20230612T171935_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_20230612T190802_20230612T190935_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_20230612T195250_20230612T195625_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_20230612T204351_20230612T204451_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_20230612T224135_20230612T224349_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

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

Number of products with errors: 180

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

> Ocean Retracking Quality Flag: This flag is currently set for products falling at ocean/ land boundaries, but this is expected.

Number of products with errors:

L2 Retracking Flags (20 Hz 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: 138

7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	140	140	3	137	0
SIR_NOPR1B	108	108	0	108	0
SIR_NOPN1B	105	105	0	105	0
SIR_NOPM_2	140	140	90	50	0
SIR_NOPR_2	108	108	45	62	1
SIR NOPN 2	105	105	43	62	0

7.1 QCC Errors

Number of QCC reports with errors: Product Type RLOBOPNCDF RL

RLOBOPNCDF

SIR_NOPR_2	1	1	1	1				
•		·		•			,	•
Test Description	n Kev:							

Test Description Key:						
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF				

7.2 QCC Warnings

Product Type SIR NOPM1B

SIR NOPM 2

SIR_NOPN1B

SIR_NOPN_2 SIR_NOPR1B

SIR_NOPR_2

Number of QCC reports with warnings

BCSHNCDF

137

103

103

1583

0

IOHHMOOR

0

0

Total number of occurrences of each warning							
MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC			
0	0	0	0	0			
36	32	0	38	0			
0	0	0	0	0			
11	32	5	23	25			
0	0	0	0	0			

22

20

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	34	0	33	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	20	1	0	0	24	0	36
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	9	3	0	40	0	44	0

40

Ī	Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
	SIR_NOPM1B	0	0	0	0	0	0	0
	SIR_NOPM_2	27	0	0	3	22	0	2

SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0		22	36	47	28
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	38	0	1	48	30	11

Product Typ	e RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1	В 0	0	0	1	0	0	0
SIR_NOPM_	2 33	0	4	1	0	0	0
SIR_NOPN1	В 0	0	0	0	0	47	1
SIR_NOPN_	2 29	29	11	0	1	0	0
SIR_NOPR1	B 0	0	0	0	0	108	2
SIR NOPR	2 20	20	2	0	2	n	0

Test Description Key:							
Abbreviation	Test name	Details					
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)					
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only					
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean					
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean					
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean					
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPFDPLRMN CDF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees					
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch					
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample					
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter					
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter					

7.3 Missing QCC Reports

Number of products with missing QCC reports: