

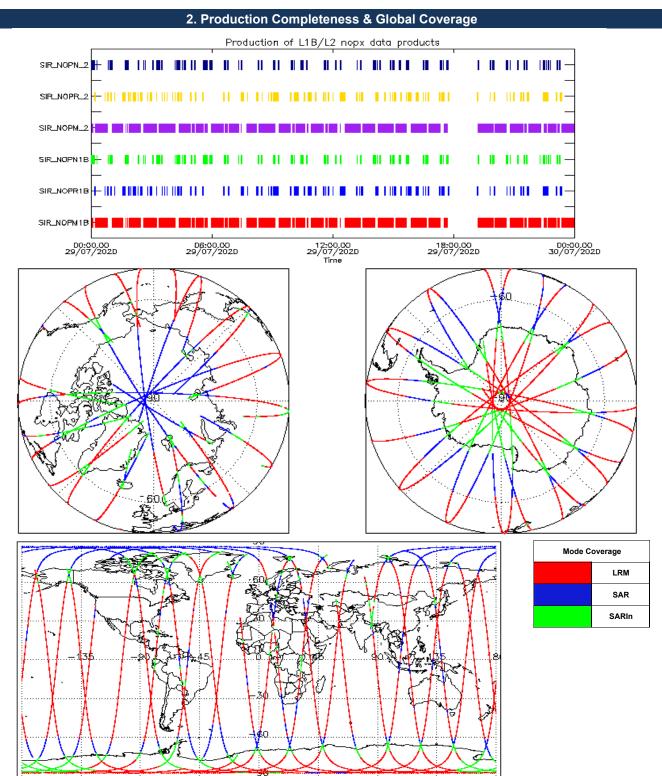
# **QA4EO Daily Report for NOP data:**

<u>29/07/2020</u>

	30-Jul-2020	Check	L1 & L2
port Production:	30-Jui-2020	Server check: science-pds.cryosat.esa.int	Nominal
rocessor Used:	CriveSet Oscen Dresser	Server check: calval-pds.cryosat.esa.int	Nominal
rocessor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Useu.	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 6.1 and 6.2

1. Overview

Missio	on / Instru	ment News
28-J	Jul-2020	CRYO2ICE Orbit raising activities.
29-J	Jul-2020	None
30-J	Jul-2020	CRYO2ICE Orbit raising activities.



	3.	Instrument Configuratio	n
The SIRAL instrument configuration for the	ne day of acquisition is provided below.		
SIRAL instrument(s) in use:	SIRAL - A		
Star Tracker(s) in use:	Star Tracker 1		
	4. NOF	Level 1B Data Quality C	Check
4.1 L1B Product Format Ch	eck		
Each product, retrieved and unpacked fro	om the science server, is checked to en	sure it consists of both an XML header file	(.HDR) and a binary product file (.DBL).
Number of products with errors:	0		
4.2 L1B Product Header An	alvsis		
	-	SPH in order to identify any inconsistencie	s and/or errors raised by the ground-segment processing chain.
			_processing_quality_hr field is not correctly configured in the OSAR and
OSARIn chains. A modification is require			
Number of products with errors:	0		
4.3 L1B Auxilary Data File L	Jsage Check		
Each product is checked for missing Data	a 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 becaus	e the auxiliary files required are not availab	ole in time for processing. This known and expected behaviour.
Number of products with errors:	0		
4.4 L1B Auxiliary Correction	n Error Check		
CryoSat L1B data includes a correction e	error flag for each measurement record.	The bit value of this flag indicates any pro	blems when set.
Number of products with errors:	0		
4.5 L1B Measurement Conf	idence Data Check		
CrvoSat L1B data includes a measureme	ent confidence flag for each measureme	ent record. The bit value of this flag indicate	es any problems when set.
	-	-	peing investigated and will be updated in the next SW update.
Number of products with errors:	0		
4.6 L1B Waveform Group D	ata Check		
· · · · · · · · · · · · · · · · · · ·		The bit value of this flag indicates any prol	blems when set.
> Loss of Echo Flag: This flag is curren	-	• • • •	
Number of products with errors:	14		
Product		Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200729T02	21232_20200729T021927_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200729T14	3451_20200729T144944_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T02	3454_20200729T023615_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T02	4031_20200729T024141_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T05	5338_20200729T055436_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T12	2131_20200729T122219_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T15	3931_20200729T154227_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T15		Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T15	4459_20200729T154526_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200729T20		Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200729T08		Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200729T15	3814_20200729T153930_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200729T20		Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200729T23	0413_20200729T230807_C001	Loss of Echo	The tracking echo is missing for one or more records
	5. <u>NO</u>	P Level 2 Data Quality C	heck
5.1 L2 Product Format Chee	CK		

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). 0 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. 0

# Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

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

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

0

#### 5.4 L2 Auxiliary Correction Error Check

For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).

Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below, followed by a table highlighting any additional issues which may arise from this test.

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric 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.

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200729T030339_20200729T031420_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_20200728T235906_20200729T000144_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T000508_20200729T000842_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T023454_20200729T023615_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_20200729T031518_20200729T032106_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T040922_20200729T041000_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_20200729T041425_20200729T041635_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T045712_20200729T045853_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_20200729T050736_20200729T050943_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_20200729T055338_20200729T055436_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T055438_20200729T055826_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_20200729T081623_20200729T082017_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_20200729T095612_20200729T095925_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	
CS_OFFL_SIR_NOPN_2_20200729T104044_20200729T104208_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T113352_20200729T113806_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and th Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T114342_20200729T114507_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T131135_20200729T131307_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T132129_20200729T132314_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_20200729T135937_20200729T140112_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T140522_20200729T140616_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T145927_20200729T150147_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T154319_20200729T154456_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and th Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T154459_20200729T154526_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T154529_20200729T154531_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T162939_20200729T163137_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T163825_20200729T164302_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T172002_20200729T172355_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T195844_20200729T200019_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_20200729T212851_20200729T213006_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_20200729T213542_20200729T213900_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T230807_20200729T230928_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20200729T231438_20200729T231647_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_NOPR_2_20200729T022733_20200729T023208_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200729T072839_20200729T073407_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20200729T085707_20200729T085843_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_20200729T090749_20200729T091541_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records
	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynami

CS_OFFL_SIR_NOPR_2_20200729T122719_20200729T123510_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_20200729T140616_20200729T141157_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_20200729T154531_20200729T155228_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_20200729T172356_20200729T172913_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_20200729T205643_20200729T205841_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

### 5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

## 5.6 L2 Measurement Quality Flag Check

### L2 Quality Flags (20Hz)

CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record. The bit value of this flag indicates any problems when set.

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

> Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: These flags are currently set for some records over ocean.

> OCOG Altimeter Range and Backscatter Quality Flags: These flags are currently set for some records over continental ice.

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200729T001223_20200729T001705_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_20200729T001714_20200729T003957_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_20200729T004004_20200729T004845_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_20200729T010127_20200729T010827_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_20200729T010851_20200729T013246_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_20200729T015145_20200729T015655_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_20200729T021232_20200729T021927_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_20200729T023615_20200729T024030_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_20200729T024141_20200729T024737_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_20200729T024740_20200729T025525_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_20200729T030339_20200729T031420_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_20200729T032107_20200729T032330_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_20200729T032401_20200729T032824_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_20200729T033107_20200729T033714_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_20200729T033749_20200729T034507_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_20200729T034647_20200729T035632_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_20200729T042337_20200729T042650_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_20200729T042822_20200729T043047_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_20200729T043209_20200729T043657_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_20200729T043936_20200729T045504_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_20200729T045853_20200729T050736_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_20200729T051051_20200729T053223_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_20200729T060048_20200729T063431_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_20200729T064101_20200729T064531_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_20200729T065028_20200729T071436_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_20200729T074648_20200729T081246_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_20200729T082858_20200729T084221_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_20200729T085123_20200729T085443_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_20200729T090512_20200729T090639_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_20200729T091836_20200729T095205_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_20200729T095925_20200729T100441_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_20200729T101123_20200729T101355_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_20200729T101123_20200729T101355_C001 CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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
	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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_20200729T104208_20200729T104609_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set for one or more records. The Ocean Altimeter Range, SSHA, SWH 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 have been
CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set for one or more records. The Ocean Altimeter Range, SSHA, SWH 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 have been
CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001 CS_OFFL_SIR_NOPM_2_20200729T111013_20200729T113126_C001	and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set for one or more records. The Ocean 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 have been set for one or more records. 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_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001 CS_OFFL_SIR_NOPM_2_20200729T111013_20200729T113126_C001 CS_OFFL_SIR_NOPM_2_20200729T113934_20200729T114342_C001	and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range Quality, OCOG         Backscatter Quality         Ocoan Altimeter Range, Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set for one or more records. The Ocean 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set for one or more records.
CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001 CS_OFFL_SIR_NOPM_2_20200729T111013_20200729T113126_C001 CS_OFFL_SIR_NOPM_2_20200729T113934_20200729T114342_C001 CS_OFFL_SIR_NOPM_2_20200729T114846_20200729T115849_C001	and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set for one or more records. The Ocean 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. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set for one or more records.
CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001 CS_OFFL_SIR_NOPM_2_20200729T111013_20200729T113126_C001 CS_OFFL_SIR_NOPM_2_20200729T113934_20200729T114342_C001 CS_OFFL_SIR_NOPM_2_20200729T114846_20200729T115849_C001 CS_OFFL_SIR_NOPM_2_20200729T120037_20200729T120752_C001	and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set 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 set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set for one or more records. The Ocean 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 have been set 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 set for one or more records.
CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001 CS_OFFL_SIR_NOPM_2_20200729T111013_20200729T113126_C001 CS_OFFL_SIR_NOPM_2_20200729T113934_20200729T114342_C001 CS_OFFL_SIR_NOPM_2_20200729T114846_20200729T115849_C001 CS_OFFL_SIR_NOPM_2_20200729T120037_20200729T120752_C001 CS_OFFL_SIR_NOPM_2_20200729T120037_20200729T121311_C001	and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set 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 set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set for one or more records. The Ocean 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 have been set 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 set for one or more records.
CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001 CS_OFFL_SIR_NOPM_2_20200729T111013_20200729T113126_C001 CS_OFFL_SIR_NOPM_2_20200729T113934_20200729T114342_C001 CS_OFFL_SIR_NOPM_2_20200729T114846_20200729T115849_C001 CS_OFFL_SIR_NOPM_2_20200729T1120037_20200729T120752_C001 CS_OFFL_SIR_NOPM_2_20200729T120834_20200729T121311_C001 CS_OFFL_SIR_NOPM_2_20200729T120834_20200729T131026_C001	and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set for one or more records. The Ocean Altimeter Range, SSHA, SWH 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 have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set for one or more records.
CS_OFFL_SIR_NOPM_2_20200729T104208_20200729T104609_C001 CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001 CS_OFFL_SIR_NOPM_2_20200729T11013_20200729T113126_C001 CS_OFFL_SIR_NOPM_2_20200729T113934_20200729T114342_C001 CS_OFFL_SIR_NOPM_2_20200729T114846_20200729T115849_C001 CS_OFFL_SIR_NOPM_2_20200729T120037_20200729T120752_C001 CS_OFFL_SIR_NOPM_2_20200729T120834_20200729T121311_C001 CS_OFFL_SIR_NOPM_2_20200729T123510_20200729T131026_C001 CS_OFFL_SIR_NOPM_2_20200729T131307_20200729T131826_C001	<ul> <li>and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range Quality, OCOG Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality</li> <li>Ocog Altimeter Range Quality, OCOG Backscatter Quality</li> <li>OCOG Altimeter Range Quality, OCOG Backscatter Quality</li> </ul>	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set 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 set for one or more records. The Ocean 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 have been set 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 set 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 set 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 set 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 set for one or more records. 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. 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_20200729T104208_20200729T104609_C001         CS_OFFL_SIR_NOPM_2_20200729T105513_20200729T110728_C001         CS_OFFL_SIR_NOPM_2_20200729T11013_20200729T113126_C001         CS_OFFL_SIR_NOPM_2_20200729T113934_20200729T114342_C001         CS_OFFL_SIR_NOPM_2_20200729T114846_20200729T115849_C001         CS_OFFL_SIR_NOPM_2_20200729T120037_20200729T120752_C001         CS_OFFL_SIR_NOPM_2_20200729T120834_20200729T121311_C001         CS_OFFL_SIR_NOPM_2_20200729T120834_20200729T131026_C001         CS_OFFL_SIR_NOPM_2_20200729T131307_20200729T131826_C001         CS_OFFL_SIR_NOPM_2_20200729T131846_20200729T132129_C001	and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         OCOG Altimeter Range Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range, SSHA, SWH         and Backscatter Quality, OCOG         Altimeter Range and Backscatter Quality         Ocean Altimeter Range Quality, OCOG         Altimeter Range Quality,	and the OCOG Altimeter Range and Backscatter Quality Flags have been set 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 set 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 set 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 set for one or more records. The Ocean 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. 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, SSHA, SWH 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, SSHA, SWH 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, SSHA, SWH and Backscatter Quality Flags and 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. 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. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20200729T143451_20200729T144944_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
	Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20200729T145223_20200729T145725_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_20200729T150645_20200729T151706_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_20200729T152325_20200729T153814_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_20200729T161029_20200729T161235_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_20200729T161451_20200729T162822_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_20200729T163138_20200729T163636_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_20200729T163702_20200729T163711_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_20200729T164436_20200729T171656_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_20200729T173058_20200729T173849_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_20200729T192223_20200729T194709_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_20200729T195007_20200729T195509_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_20200729T200301_20200729T203628_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_20200729T204843_20200729T205526_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_20200729T210036_20200729T210900_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_20200729T212155_20200729T212615_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_20200729T213006_20200729T213542_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_20200729T214306_20200729T221549_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_20200729T221612_20200729T221724_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_20200729T221736_20200729T221839_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_20200729T224812_20200729T230413_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_20200729T230929_20200729T231438_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_20200729T232130_20200729T235714_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_20200729T010041_20200729T010127_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_20200729T030233_20200729T030339_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_20200729T041000_20200729T041020_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_20200729T102326_20200729T102355_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_20200729T145927_20200729T150147_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_20200729T162939_20200729T163137_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_20200729T222654_20200729T222718_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_20200729T223536_20200729T223547_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_0FFL_SIR_NOPR_2_20200729T021927_20200729T022013_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_20200729T081246_20200729T081623_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_20200729T084842_20200729T084907_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_20200729T141214_20200729T141233_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_20200729T160604_20200729T161028_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_20200729T231748_20200729T232130_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

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

> OCOG Altimeter Range and Backscatter PLRM Quality Flags: These flags are currently set for occasional records over continental ice.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200729T000508_20200729T000842_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_20200729T013946_20200729T014032_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_20200729T014852_20200729T015040_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_20200729T022013_20200729T022150_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_20200729T023454_20200729T023615_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_20200729T030233_20200729T030339_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_20200729T031518_20200729T032106_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_20200729T041748_20200729T042017_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_20200729T042215_20200729T042337_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_20200729T043047_20200729T043209_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_20200729T043658_20200729T043936_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_20200729T050736_20200729T050943_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_20200729T053820_20200729T053947_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_20200729T055438_20200729T055826_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_20200729T081623_20200729T082017_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_20200729T090236_20200729T090330_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_20200729T102704_20200729T102756_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_20200729T104044_20200729T104208_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_20200729T113352_20200729T113806_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_20200729T122131_20200729T122219_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_20200729T122317_20200729T122507_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_20200729T131135_20200729T131307_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_20200729T132129_20200729T132314_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_20200729T145041_20200729T145223_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_20200729T145927_20200729T150147_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_20200729T153931_20200729T154227_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_20200729T162939_20200729T163137_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_20200729T163825_20200729T164302_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_20200729T172002_20200729T172355_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_20200729T172913_20200729T172946_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_20200729T191211_20200729T191226_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_20200729T204726_20200729T204739_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_20200729T210900_20200729T211234_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_20200729T213542_20200729T213900_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_20200729T222725_20200729T222750_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_20200729T223459_20200729T223521_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_20200729T223554_20200729T223612_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_20200729T231438_20200729T231647_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_NORR_2_2020728T030642_2020728T03244_0001         Descrite Alenge: SRIA, SWH, SRIA SWH and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and status to the OCO Alimeter Range and Backscatter Quality Flag have been and backscatter Quality Flag ha
CS_OFFL_SIR_NOPR_2_20200729T03246_2001         and backsterer Quality FLM, OCOC Amineter Range, SSH, SWH and Backsterer Quality FLM, OCOC Amineter Range, SSH,
05_0FFL_SIR_NOPR_2_20200729T03374_20201         and Backsatter Guilty FLMM_OCGD         and Backsatter Guilty FLMM_OCGD           05_0FFL_SIR_NOPR_2_20200729T04217_20200729T04210_0001         OCCO Altraster Range Quilty FLMM_OCGD         bm OCGO Range and Backsatter Cuilty FlgM have been set for on ore records.           05_0FFL_SIR_NOPR_2_20200729T05041_20200729T05054_0001         OCCO Altraster Range Quilty FLMM, OCGD         bm OCGO Range and Backsatter Cuilty FlgM have been set for on ore records.           05_0FFL_SIR_NOPR_2_20200729T050431_20200729T050543_00001         OCCE Altraster Range SSHA_SVH and Backsatter Cuilty FlgM have been set for on ore records.         bm OCGO Range and Backsatter Cuilty FlgM have been set for on ore records.           05_0FFL_SIR_NOPR_2_20200729T050431_20200729T050542_0001         OCCE altraster Range, SSHA_SVH and Backsatter Cuilty FlgM have been set for on ore records.           05_0FFL_SIR_NOPR_2_20200729T050431_20200729T050507_0001         OCCE altraster Range, SSHA_SVH and Backsatter Cuilty FlgM have been set for on or records.           05_0FFL_SIR_NOPR_2_20200729T051248_2020729T081242_0001         OCCE altraster Range, SSHA_SVH and Backsatter Cuilty FlgM have been set for on or records.           05_0FFL_SIR_NOPR_2_20200729T081248_2020729T081242_0001         OCCE Altraster Range SSHA_SVH and Backsatter Cuilty FlgM have been set for on or records.           05_0FFL_SIR_NOPR_2_20200729T081248_2020729T081242_0001         OCCOG Altraster Range Cuilty FLMM OCCOG A
C2_DFFSIR_NOPR_2_20200729T05043_20200729T051051_C001         OCOS Backscatter Quality         The Ocean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, OCOS           C5_OFFL_SIR_NOPR_2_20200729T05043_20200729T051051_C001         Mitter Backscatter Quality FIRM, OCOS         The Ocean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS           C5_OFFL_SIR_NOPR_2_20200729T05043_120200729T05044752_20200729T050427_C001         Ceean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS         The Ocean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS           C5_OFFL_SIR_NOPR_2_20200729T064752_20200729T065027_C001         Ceean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS         The Ocean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS           C5_OFFL_SIR_NOPR_2_20200729T064752_20200729T065027_C001         Ceean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS         The Ocean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS           C5_OFFL_SIR_NOPR_2_20200729T06124_D20200729T061622_C001         Ceean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS         The Ocean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS           C5_OFFL_SIR_NOPR_2_20200729T06124_D2020729T062656_C001         Ceean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS           C6_OFFL_SIR_NOPR_2_20200729T062760_2020729T062656_C001         Ceean Altimeter Range, SHA, SWH and Backscatter Quality FIRM, NOCOS           C6_OFFL_SIR_NOPR_2_20200729T062650_2020729T062651_C001         COCOG Altimeter Range Cality PLEM, NOCOS
GS_OFFL_SIR_NOPR_2_20200729T060043_20200729T061051_C001     and Backscatter Quality PLN, CCO Mitmeder Range, SSHA, SWH and Backscatter Quality PLN, CCO Altimeder Range Backscatt
GS_OFFL_SIR_NOPR_2_20200729106343_0200729108648_C001       and Backcaster Quality PLRM, OCOG Altimeter Range, and Backcaster Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backcaster Quality Flags have be for one or more records.         GS_OFFL_SIR_NOPR_2_202007291064752_0200729108503_C001       Ocean Altimeter Range, SSHA, SWH and Backcaster Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backcaster Quality Flags have be for one or more records.         GS_OFFL_SIR_NOPR_2_202007291081246_02007291081283_C001       Ocean Altimeter Range, SSHA, SWH and Backcaster Quality PLRM, OCOG Altimeter Range and Backcaster Quality Flags have be aff or one or more records.         GS_OFFL_SIR_NOPR_2_202007291081246_02007291081283_C001       OCGA Altimeter Range ASHA, SWH and Backcaster Quality PLRM, OCOG Backcaster Quality PLRM       The OCOG Range and Backscaster Quality Flags have been set for on more records.         GS_OFFL_SIR_NOPR_2_20200729110852_20200729110852_2020729110852_2020729110852_2020729110852_2020729110852_2020729110852_2020729110852_2020729110852_2020729110852_2020729110852_2020729110852_20207291108552_20207291108553_C001       The OCOG Range and Backscatter Quality
CS_OFFL_SIR_NOPR_2_20200729T084752_0200729T085027_0001       and Backscatter Quality FLRM_OCOG       Intel Locan Attimeter Range, SSHA, SWH         GS_OFFL_SIR_NOPR_2_20200729T081246_20200729T081823_C001       Microsoft Range and Sackscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T081246_20200729T081823_C001       Microsoft Range and Sackscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T082736_20200729T082858_C001       Microsoft Range and Sackscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T082736_20200729T082858_C001       Microsoft Range and Sackscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T082736_20200729T082858_C001       OCOG Atlimeter Range and Sackscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T085707_20200729T082658_C001       OCOG Atlimeter Range Quality PLRM, COG Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T090300_02001       OCOG Atlimeter Range Quality PLRM, COG Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T096205_20200729T095612_C001       OCOG Atlimeter Range ASHA, SWH and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T100552_20200729T101711_C001       OCOG Atlimeter Range AND Backscatter
CS_OFFL_SIR_NOPR_2_20200729T081246_20200729T081623_C001       and Backscatter Quality PERM_COUNT       In the OCO Altimeter Range, SSHA, SWH and Backscatter Quality Figs         CS_OFFL_SIR_NOPR_2_20200729T082736_20200729T082586_C001       Attimeter Range, SSHA, SWH and Backscatter Quality Figs       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs         CS_OFFL_SIR_NOPR_2_20200729T082736_20200729T082586_C001       Attimeter Range, SSHA, SWH and Backscatter Quality Figs       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs         CS_OFFL_SIR_NOPR_2_20200729T085707_20200729T085643_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Figs       The OCOG Range and Backscatter Quality Figs have be set for one or ore records.         CS_OFFL_SIR_NOPR_2_20200729T090330_20200729T090400_C001       OCOG Altimeter Range, Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Figs have been set for on rore records.         CS_OFFL_SIR_NOPR_2_20200729T091642_20200729T095612_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs have been set for on rore records.       The OCOG Range and Backscatter Quality Figs have been set for on rore records.         CS_OFFL_SIR_NOPR_2_20200729T109552_20200729T095612_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for one or more records.       The OCOG Range and Backscatter Quality Figs have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T100552_20200729T100659_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Figs have be set for one or more records.
CS_OFFL_SIR_NOPR_2_20200729T082736_20200729T082858_0001       and Backscatter Quality Flags have be for on more records.         CS_OFFL_SIR_NOPR_2_20200729T085707_20200729T085843_0001       OCOG Allimeter Range Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T085707_20200729T085843_0001       OCOG Allimeter Range Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T090330_20200729T090400_0001       OCOG Allimeter Range Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T091642_20200729T091722_C001       OCOG Allimeter Range Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T091642_20200729T095612_C001       OCOG Allimeter Range Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T109552_20200729T1095612_C001       OCean Allimeter Range, SHA, SWH and Backscatter Quality Flags have been set for on more records.       The OCEAn Allimeter Range, SHA, SWH and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T100552_20200729T100828_C001       OCean Allimeter Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T101755_20200729T101711_C001       OCCG Allimeter Range Quality PLRM, OCCOG Allimeter Range and Backscatter Quality Flags have be
CS_OFFL_SIR_NOPR_2_20200729T090330_20200729T090400_C001       OCOG Backscatter Quality       Inore records.         CS_OFFL_SIR_NOPR_2_20200729T090330_20200729T090400_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T091642_20200729T091722_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T095205_20200729T095612_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for on occoG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG COG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T101715_20200729T101715_20200729T101729_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T103457_20200729T103704_C001       OCOG Altimeter Range Quality PLRM, OCOG Backs
CS_OFFL_SIR_NOPR_2_202007291090330_202007291090400_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPR_2_202007291091642_202007291091722_C001       OCOG Backscatter Quality       PLRM,         CS_OFFL_SIR_NOPR_2_202007291091642_202007291095612_C001       Ocog Backscatter Quality       PLRM,         CS_OFFL_SIR_NOPR_2_202007291095205_202007291095612_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPR_2_202007291100552_202007291100829_C001       Ocean Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPR_2_202007291100552_202007291100829_C001       Occog Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPR_2_202007291101355_202007291101711_C001       OCCOG Altimeter Range Quality       The OCOG Range and Backscatter Quality       The OCOG Range and Backscatter Quality       Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_202007291101715_202007291101712_C001       OCCGG Altimeter Range Quality       The OCOG Range and Backscatter Quality       Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_202007291103457_202007291103704_C001       OCCGG Altimeter Range Quality       The OCOG Range and Backscatter Quality       Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_202007291104610_202007291105713_C001       OC
CS_OFFL_SIR_NOPR_2_20200729T095205_20200729T095612_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPR_2_20200729T095205_20200729T095612_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T101355_20200729T101711_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM,       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T101715_20200729T1017715_20200729T101779_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T103457_20200729T103704_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T104610_20200729T105513_C001       OCOG Altimeter Range Quality PLRM, OCCG Backscatter Quality
CS_OFFL_SIR_NOPR_2_20200729T095205_20200729T095612_C001       and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T100552_20200729T100829_C001       Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T101355_20200729T101711_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and the O
CS_OFFL_SIR_NOPR_2_20200729T100552_20200729T100829_C001       and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM       Ine Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records.         CS_OFFL_SIR_NOPR_2_20200729T101355_20200729T101711_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T101715_20200729T101729_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T101715_20200729T101729_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T103704_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, ococ Attimeter Range and Backscatter Quality PLRM,
CS_OFFL_SIR_NOPR_2_20200729T101735_20200729T101779_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPR_2_20200729T101715_20200729T101729_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T103457_20200729T103704_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T103457_20200729T103704_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T104610_20200729T105513_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records.
CS_OFFL_SIR_NOPR_2_20200729T101715_20200729T101729_C001       OCOG Backscatter Quality       more records.         CS_OFFL_SIR_NOPR_2_20200729T103457_20200729T103704_C001       OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality       The OCOG Range and Backscatter Quality Flags have been set for on more records.         CS_OFFL_SIR_NOPR_2_20200729T104610_20200729T105513_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for on more records.
CS_OFFL_SIR_NOPR_2_20200729T103437_20200729T105704_C00T CS_OFFL_SIR_NOPR_2_20200729T104610_20200729T105513_C001 CS_OFFL_SIR_NOPR_2_20200729T104610_20200729T105513_C001 Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality FLRM, ocog at more records. The Ocean Attimeter Range and Backscatter Quality FLRM, ocog at the oce or more records.
CS_OFFL_SIR_NOPR_2_20200729T104610_20200729T105513_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have be and the OCOG Altimeter Range and Backscatter Quality Flags have be
PLRM Set for one of more records.
CS_OFFL_SIR_NOPR_2_20200729T113126_20200729T113352_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM. OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_NOPR_2_20200729T114507_20200729T114846_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM. OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_NOPR_2_20200729T122719_20200729T123510_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality Flags have been set for on more records.
CS_OFFL_SIR_NOPR_2_20200729T132315_20200729T132928_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be plrm.
CS_OFFL_SIR_NOPR_2_20200729T140616_20200729T141157_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_NOPR_2_20200729T150147_20200729T150644_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FLRM, OCOG Altimeter Range and Backscatter Quality FLRM. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be set for one or more records.
CS_OFFL_SIR_NOPR_2_20200729T152113_20200729T152147_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality Flags have been set for on more records.
CS_OFFL_SIR_NOPR_2_20200729T153814_20200729T153930_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have be Altimeter Range and Backscatter Quality PLRM.

CS_OFFL_SIR_NOPR_2_20200729T160604_20200729T161028_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_20200729T171656_20200729T171913_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_20200729T172946_20200729T173058_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_20200729T174414_20200729T174450_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_20200729T200020_20200729T200301_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_20200729T205643_20200729T205841_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_20200729T212616_20200729T212851_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_20200729T223106_20200729T223420_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_20200729T230413_20200729T230807_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_20200729T231748_20200729T232130_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.

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#### L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors:

#### 5.7 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20Hz)

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

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

#### Number of products with errors:

#### L2 Retracking Flags (20Hz, PLRM)

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

Ocean Retracking Quality Flag (PLRM): This flag is currently set for products NOPR and NOPN products over sea ice, but this is to be expected.

Number of products with errors:

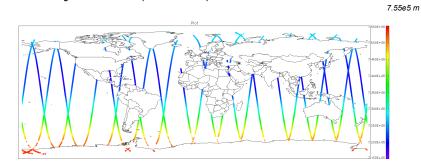
#### 5.8 L2 Parameters Check

The following section provides plots and statistics of some key science parameters extracted from the L2 products.

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#### Range to Ocean Surface (Ocean and OCOG retrackers)

#### L2 NOP - Range to Ocean Surface (Ocean Retracker)

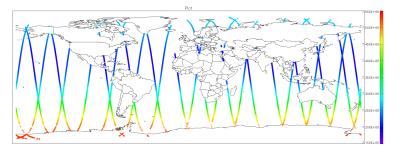


Parameter		NOPM	NOPN	NOPR
Range Ocean (1	mean	729.38 km	741.45 km	733.53 km
Hz)	st dev	9.11 km	13.36 km	12.54 km
Range OCOG (1	mean	729.35 km	N/A	N/A
Hz)	st dev	9.09 km	N/A	N/A

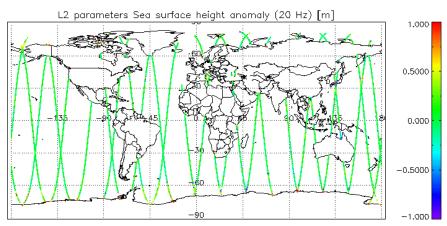
7.15e5 m

7.55e5 m

7.15e5 m

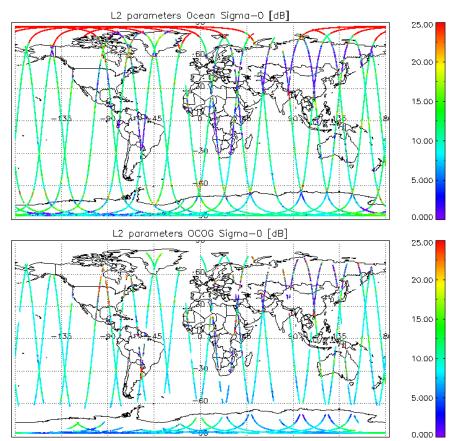


#### Sea Surface Height Anomaly (20 Hz)



#### NOPM NOPN NOPE Parameter /- sto sto SSHA (1 Hz) 0.0 +/- 0.1 0.4 +/- 2.7 0.0 +/- 0.5 mean - sto SSHA (20 Hz) 0.0 +/- 0.2 0.6 +/- 3.8 -0.0 +/- 1.1

#### Sigma-0 (Ocean and OCOG retrackers)



Parameter	NOPM	NOPN	NOPR
Ocean Sigma-0	mean +/- std	mean +/- std	mean +/- std
(1 Hz)	11.1 +/- 1.8	11.6 +/- 4.4	12.4 +/- 4.7
Ocean Sigma-0	mean +/- std	mean +/- std	mean +/- std
(20 Hz)	10.5 +/- 3.3	9.0 +/- 12.2	17.1 +/- 10.3
OCOG Sigma-0	mean +/- std	17.1 +/- 10.3	mean +/- std
(1 Hz)	9.3 +/- 2.1	N/A	N/A
OCOG Sigma-0	mean +/- std	0.746	mean +/- std
(20 Hz)	10.0 +/- 5.6	N/A	N/A

# 6. 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 or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	136	136	6	130	0
SIR_NOPR1B	104	104	0	104	0
SIR_NOPN1B	108	108	1	107	0
SIR_NOPM_2	136	136	79	54	3
SIR_NOPR_2	104	104	34	69	1
SIR_NOPN_2	108	108	45	61	2

#### 6.1 QCC Errors

# Number of QCC reports with errors:

Number of QCC reports with errors: 11											
	Total number of occurrences of each error										
Product Type	EOVSNCDF	MPHSVSNCDF	-	-	-	-	-	-	-	-	-
SIR_NOPM_2	3	3									
SIR_NOPN_2	2	2									
SIR_NOPR_2	1	1									
Test Description Key:											
Abbreviation	Test n	ame		Details							
EOVSNCDF	EnumO	rbitVectorSourceNet	CDF	Orbit vector source should match one of the allowed enumeration values - NetCDF							
MPHSVSNCDF	MPH_S	tate_Vector_Source	NetCDF	State_Vector_Source mismatch							

0

0

# 6.2 QCC Warnings

Number of QCC reports with warnings

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
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
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	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
DF	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
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: