

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

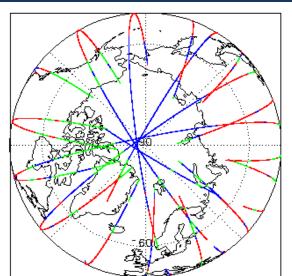
<u>31/03/2021</u>

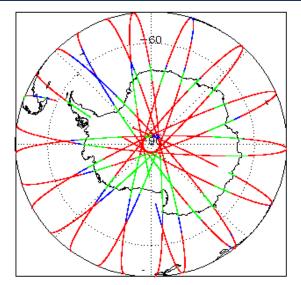
enert Breduction	01 Apr 2021	Check	L1 & L2
Report Production:	01-Apr-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CriveSet Oscan Brassager	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Used:	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 7.1 and 7.2

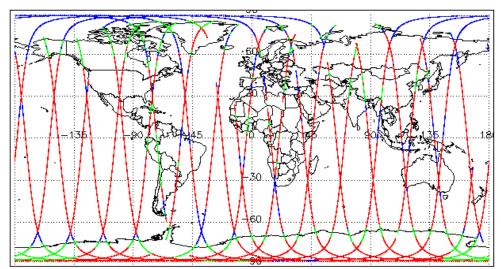
1. Overview

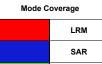
Mission / Instrument News		
30-Mar-2021	None	
31-Mar-2021	None	
01-Apr-2021	Nothing planned	

# 2. Global Coverage









SARIn

## 3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.			
SIRAL instrument(s) in use:	SIRAL - A		

Star Tracker(s) in use:
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## 4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

Star Tracker 1

4.2 L1B Product Header Analysis		
or all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inconsistenc	ies and/or errors raised by the ground-segment processing chain.
1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L1E	3 IOPR and IOPN products because the I1	b_processing_quality_hr field is not correctly configured in the OSAR and
SARIn chains. A modification is required in the next release. Umber of products with errors: 0		
I.3 L1B Auxilary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to check th	ne validity of Auxiliary Data Files is correct.
Dynamic Atmospheric Correction: The DAC is missing in all products becau	se the auxiliary files required are not avail	able in time for processing. This known and expected behaviour.
Number of products with errors: 0		
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indicates any p	roblems when set.
lumber of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measuren	nent record. The bit value of this flag indic	ates any problems when set.
Attitude Correction Missing: This flag is currently set in error for NOPR pro	•	
lumber of products with errors: 0	-	
I.6 L1B Waveform Group Data Check		
ryoSat L1B data includes a waveform data flag for each measurement record	I. The bit value of this flag indicates any p	roblems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this	is to be expected.	
umber of products with errors: 9		
roduct	Test Failed	Description
S_OFFL_SIR_NOPM1B_20210331T084124_20210331T091622_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPM1B_20210331T203837_20210331T204413_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPM1B_20210331T225948_20210331T232238_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPN1B_20210331T024354_20210331T024635_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPN1B_20210331T042055_20210331T042518_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPN1B_20210331T120636_20210331T120645_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPN1B_20210331T174310_20210331T174758_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPN1B_20210331T205654_20210331T205721_C001	Loss of Echo	The tracking echo is missing for one or more records
S_OFFL_SIR_NOPR1B_20210331T031325_20210331T031546_C001	Loss of Echo	The tracking echo is missing for one or more records
5. NC	P Level 2 Data Quality (	Check
5.1 L2 Product Format Check		
ach product, retrieved and unpacked from the science server, is checked to e umber of products with errors: 0	ensure it consists of doth an XML header t	IIE (.HDR) and a binary product file (.DBL).
5.2 L2 Product Header Analysis		
or all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inconsistenc	ies and/or errors raised by the ground-segment processing chain.
lumber of products with errors: 0		
5.3 L2 Auxiliary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also to check th	ne validity of Auxiliary Data Files is correct.
Vind Model File Usage: This file is currently not included in all L2 products.		
lumber of products with errors: 0		
i.4 L2 Auxiliary Correction Error Check		
or all products, the auxiliary corrections within the Geophysical Group are che	ecked for the default error value (32767).	
Currently, there are some common auxiliary correction errors raised in the old of the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from the observed by a table highlighting any additional issues which may arise from table highlighting any additional issues which may arise from table highlighting any additional issues which may arise from table highlighting any additional issues which may arise from table highlighting any additional issues which may arise from table highlighting any additional issues which may arise from table highlighting any additional issues which may arise from table highlighting any additional issues which may arise from table highlighting arise from		due to surface type. All common flags are summarised in the list belo
ECMWF Meteo Corrections: Currently the following corrections are not con correction and the U-Wind and V-Wind components of the ECMWF model win		
Mean Sea Surface: The error value is currently set for products over land ar		. ,
Mean Dynamic Topography: The error value is currently set for products or		icted.
Altimetric Wind Speed Error: The error value is currently set for products of		
lumber of products with errors: 38	, , mo to to oo onp	
•		
roduct	Test Failed	Description
S_OFFL_SIR_NOPM_2_20210331T062325_20210331T064935_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one of more records
S_OFFL_SIR_NOPM_2_20210331T135558_20210331T135700_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one of more records
S_OFFL_SIR_NOPM_2_20210331T145313_20210331T150452_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one of more records

CS_OFFL_SIR_NOPN_2_20210331T002344_20210331T002452_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_20210331T010608_20210331T010720_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T020048_20210331T020237_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T024354_20210331T024635_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T042055_20210331T042518_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T050954_20210331T051234_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T051857_20210331T052206_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_20210331T055953_20210331T060341_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_20210331T065943_20210331T070100_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_20210331T073458_20210331T074034_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_20210331T100855_20210331T101021_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_20210331T101540_20210331T101847_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T114839_20210331T115110_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T115441_20210331T115611_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T132920_20210331T133155_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T142425_20210331T142547_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T150453_20210331T150736_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T155853_20210331T155952_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_20210331T160357_20210331T160608_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T164646_20210331T164827_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_20210331T165709_20210331T165915_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_20210331T174310_20210331T174758_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T200557_20210331T200951_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perioc Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic
CS_OFFL_SIR_NOPN_2_20210331T210655_20210331T210809_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_20210331T214546_20210331T214859_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T223016_20210331T223139_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T232326_20210331T232740_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210331T233315_20210331T233440_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_20210331T010720_20210331T011433_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_20210331T024635_20210331T025327_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_20210331T042518_20210331T043239_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_20210331T191811_20210331T192339_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_20210331T204627_20210331T204813_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_20210331T205721_20210331T210514_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_20210331T223542_20210331T224823_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### 5.5 L2 Measurement Confidence Data Check

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

## 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.

0

96

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210331T000058_20210331T001151_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_20210331T001945_20210331T002344_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_20210331T002546_20210331T005437_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_20210331T011529_20210331T011534_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_20210331T012116_20210331T012904_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_20210331T013517_20210331T014711_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_20210331T014731_20210331T015128_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_20210331T015309_20210331T015827_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_20210331T015846_20210331T020048_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_20210331T020924_20210331T022202_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_20210331T022416_20210331T023617_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_20210331T023849_20210331T024014_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_20210331T030338_20210331T031310_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_20210331T031546_20210331T033046_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_20210331T033235_20210331T033739_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_20210331T033804_20210331T033919_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_20210331T034610_20210331T034707_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_20210331T040917_20210331T041628_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_20210331T045239_20210331T050950_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_20210331T051234_20210331T051657_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_20210331T052249_20210331T054623_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_20210331T062325_20210331T064935_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_20210331T065051_20210331T065612_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_20210331T070200_20210331T073016_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_20210331T073141_20210331T073458_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_20210331T075255_20210331T075745_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_20210331T075837_20210331T082909_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_20210331T083040_20210331T083850_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_20210331T084124_20210331T091622_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_20210331T092926_20210331T093031_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_20210331T100010_20210331T100837_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_20210331T101021_20210331T101540_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_20210331T102055_20210331T104348_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_20210331T104634_20210331T105550_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_20210331T110805_20210331T111209_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_20210331T112759_20210331T113244_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_20210331T113432_20210331T114742_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_20210331T115117_20210331T115441_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_20210331T120003_20210331T120636_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_20210331T120645_20210331T122926_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_20210331T122934_20210331T123252_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_20210331T123639_20210331T123643_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_20210331T125100_20210331T125800_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_20210331T125824_20210331T132220_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_20210331T132545_20210331T132605_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_20210331T133155_20210331T133348_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_20210331T134023_20210331T134625_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_20210331T134719_20210331T135311_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.

B., Ome, J.R., JOPH, J. 201001114018, 201001114080, COI         Size Althouse Resp. Sign, SMI.         In Size Althouse Resp. Sign, SMI.         In Size Althouse Resp. Sign, SMI.           B., Ome, J.R., JOPH, J. 201001114018, 201001114044, COI         Core Althouse Resp. Sign, SMI.         In Size Althouse Resp. Sign, SMI.         In Size Althouse Resp. Sign, SMI.           B., Ome, J.R., JOPH, J. 201001114018, 201001114040, COI         Core Althouse Resp. Sign, SMI.         In Size Althouse Resp. Size, SMI.	CS_OFFL_SIR_NOPM_2_20210331T135702_20210331T135809_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.
<ul> <li>CS, DTL, SRE, DGNL, SREVGRITT 1918, 20210311114440, 2021</li> <li>CS, DTL, SREVGRITT 1918, 2021031114440, 2021</li> <li>Daw Allendar Rage, SRAV, ROM</li> <li>CG, CHL, SREVGRITT 1942, 2021031114440, 2021</li> <li>DGO Allendar Rage, SRAV, ROM</li> <li>CG, CHL, SREVGRITT 1954, 2021031114440, 2021</li> <li>DGO Allendar Rage, SRAV, ROM</li> <li>CG, CHL, SREVGRITT 1954, 2021031114440, 2021</li> <li>DGO Allendar Rage, SRAV, ROM</li> <li>CGO Allen</li></ul>	CS_OFFL_SIR_NOPM_2_20210331T140158_20210331T140856_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
<ul> <li>CS, OFL, DR, NORM, J. 201001114052, 2021021114059, 2001</li> <li>CS, OFL, DR, NORM, J. 2010031114059, 2021021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021114059, 2001021</li></ul>	CS_OFFL_SIR_NOPM_2_20210331T143119_20210331T143404_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Call DPL DPL VARUE CODE NAME IN DESCRIPTION DESCRIPRODUCES DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPTION DESCRIPU	CS_OFFL_SIR_NOPM_2_20210331T143452_20210331T144459_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
BL_DPFL_SRLNOPML2_202103311164515_202103311164515_202103311164515_202103311164515_202103311164515_202103311164515_20210311164555_2001       Descent Flags And Flags An	CS_OFFL_SIR_NOPM_2_20210331T144639_20210331T144653_C001		
CSULPL_GRUUPPL_20010301119159_2001031119159_2000         Boassent or Cashiy         to make mean means and the second of the second means freque. SNA, SWA and Boassenter Quality Flags frequences freque and Boassenter Quality Costs           Clip Flags RNOPM 2_202103311182012_20210311182012_202101         Operen Almeter Reage SSHA, SWH         The Operen Almeter Reage SSHA, SWH Flags Fl	CS_OFFL_SIR_NOPM_2_20210331T145313_20210331T150452_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2, OFFL_SR, NOPK_2_2021031T151409_2021031T151409_C010     and Baskaster Quality, CO00     and Baskaster Quality, CO00       C3, OFFL_SR, NOPK_2_2021031T151409_C0101     Coan Afmeter Regs, SIAA, WM     the CO00 Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T151709_2021031T151409_C0101     Coan Afmeter Regs, SIAA, WM     the CO00 Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T151709_2021031T15209_C0101     Coan Afmeter Regs, SIAA, WM     the CO00 Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T161791_2021031T16209_C0101     Coan Afmeter Regs, SIAA, WM     the Coon Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T161791_2021031T16209_C0101     Coan Afmeter Regs, SIAA, WM     the Coon Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T161791_2021031T16209_C01031T16209_C0103     Coan Afmeter Regs, SIAA, WM     the Coon Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T16209_C021031T16209_C02031T16209_C01031T16209_C000     Coan Afmeter Regs, SIAA, WM     the Coon Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T16209_C021031T16209_C021031T16209_C0201     Coan Afmeter Regs, SIAA, WM     the Coon Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T16209_C021031T16209_C021031T16209_C0201     Coon Afmeter Regs, SIAA, WM     the Coon Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T16209_C021031T16209_C021031T16209_C0210     COOO Afmeter Regs, SIAA, WM     the Coon Afmeter Regs, SIAA, WM       C3, OFFL_SR, NOPK_2_2021031T16209_C021031T16209_C021031T16209_C0210     COOO Afmeter Regs, SIAA, WM <td>CS_OFFL_SIR_NOPM_2_20210331T151334_20210331T151757_C001</td> <td></td> <td>÷ , ,</td>	CS_OFFL_SIR_NOPM_2_20210331T151334_20210331T151757_C001		÷ , ,
CE_OFFL_SR_NOPH_2_2021031110378_2021031110348_0001 All model Range and Baskacethe Quarky Page tame the COCO All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacethe Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame the Coco All moder Range and Baskacether Quarky Page tame	CS_OFFL_SIR_NOPM_2_20210331T151936_20210331T152646_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB, OFFL_SIR, NOPM_2, 20210331116306, 20210331116004, 2001       and Beckscatter Quality, Code       and the deckscatter Quality, Flags have been Afflineder Range and Backscatter Quality, Code         CB, OFFL_SIR_NOPM_2, 20210331116200, 20210331116200, 20210331116405, 2001       Ocean Afflineder Range and Backscatter Quality, Flags have been afflineder Range and Backscatter Quality, Code         CB, OFFL_SIR_NOPM_2, 20210331116200, 20210331116405, 2001       Ocean Afflineder Range and Backscatter Quality, Flags have been afflineder Range and Backscatter Quality, Code         CB, OFFL_SIR_NOPM_2, 20210331116400, 20210331116405, 2001       Ocean Afflineder Range, SSHA, SVH and Backscatter Quality, Flags have been afflineder Range and Backscatter Quality, Flags have been afflineder	CS_OFFL_SIR_NOPM_2_20210331T152718_20210331T153438_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_NOPM_2_20210331T16786_20210331T162802_0001         and flaskscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been after Core and the COCO Altimeter Range and Backscatter Quality Flags have been and COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and CoCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and CoCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and Backscatter Quali	CS_OFFL_SIR_NOPM_2_20210331T153736_20210331T155048_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C8_OFFL_SIR_NOPM_2_20210331T102145_20210331T102352_C001       and the COGO       and the COGO       and the COGO         C8_OFFL_SIR_NOPM_2_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20210331T102909_20001       COCOA Alimeter Range Quality, COCOG       The Ocean Alimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210331T161756_20210331T162020_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210331T162009_20210331T164005_C001       and Backscatter Quality_OCOG       and Backscatter Quality_C0CG       and Backscatter Quality_Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T164027_20210331T165708_C001       OCOG Altimeter Range Quality_OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T165915_20210331T172153_C001       OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T165915_20210331T172153_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T165915_20210331T182528_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T180304_20210331T182528_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T180304_20210331T180304_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T180301_20210331T180304_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T180301_20210331T180304_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T180301_2021031T180304_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set         CS_OFFL_SIR_NOPM_2_20210331T180301_2021031T180034_C001       Ocean Altimeter Range, SSHA, S	CS_OFFL_SIR_NOPM_2_20210331T162143_20210331T162632_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_PFE_SIR_NOPM_2_20210331T10962_001         Backcatter Quality         for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T105915_02210331T172153_C001         Cocan Atimater Range, SSHA, SWH and Backcatter Quality Flags have been Atimater Range, SSHA, SWH and Backcatter Quality Flags have been Atimater Range, SSHA, SWH and Backcatter Quality Flags have been and the Cocon Atimater Range, SSHA, SWH and Backcatter Quality Flags have been at for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T18500_C001         Cocan Atimater Range, SSHA, SWH and Backcatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T18300_20210331T183503_C001         COCGO Atimater Range, SSHA, SWH and Backcatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T18300_20210331T18050_C001         Cocan Atimater Range, SSHA, SWH and Backcatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T18300_20210331T190354_C001         Cocan Atimater Range, SSHA, SWH and Backcatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T190354_C001         Cocan Atimater Range, SSHA, SWH and Backcatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T190354_C001         Cocan Atimater Range, SSHA, SWH and Backcatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T190352_C001         Cocan Atimater Range, SSHA, SWH and Backcatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_NOPM_2_20210331T200351_20210331T201542_C001	CS_OFFL_SIR_NOPM_2_20210331T162909_20210331T164605_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_2021031T165915_2021031T172153_0001       and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality, Flags have been and Backscatter Quality, CCOG Attimeter Range, SSHA, SWH and Backscatter Quality, CCOG Backscatter Quality, CCOG Attimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T183601_20210331T19054_C001       CCOG Attimeter Range, SHA, SWH and Backscatter Quality, CCOG Attimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T190519_20210331T190741_C001       CCOG Attimeter Range Quality, CCOG Attimeter Range, SHA, SWH and Backscatter Quality, CCOG Attimeter Range, SHA, SWH and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T190512_0210331T200429_C001       CCOG Attimeter Range, SHA, SWH and Backscatter Quality, CCOG Attimeter Range, and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T201502_0210331T201542_0001       CCOG Attimeter Range, SHA, SWH and Backscatter Quality, CCOG Backscatter Quality, CCOG Backscatter Quality, CCOG Attimeter Range and Backscatter Quality, Flags have been set for one or more recor	CS_OFFL_SIR_NOPM_2_20210331T164827_20210331T165708_C001		
CS_OFFL_SIR_NOPM_2_20210331T179519_20210331T182528_C001       and Backscatter Quality, CCCG       and the OCCG Altimeter Range and Backscatter Quality Flags have been at tor one or more records.         CS_OFFL_SIR_NOPM_2_20210331T183034_20210331T183033_C001       DCCG Altimeter Range Quality, OCCG       The OCCG Altimeter Range and Backscatter Quality Flags have been at tor one or more records.         CS_OFFL_SIR_NOPM_2_20210331T183001_20210331T190354_C001       Occan Altimeter Range, SSHA, SWH and Backscatter Quality, PLags and backscatter Quality, PLags and the OCCG Altimeter Range and Backscatter Quality Flags have been at tor one or more records.         CS_OFFL_SIR_NOPM_2_20210331T190519_20210331T190741_C001       DCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags h	CS_OFFL_SIR_NOPM_2_20210331T165915_20210331T172153_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_202103311183301_202103311183303_20001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_202103311183801_202103311190354_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COGG Altimeter Range and Backscatter Quality Flags have been at Minneter Range and Backscatter Quality Flags have been at Minneter Range and Backscatter Quality Flags have been at CS_OFFL_SIR_NOPM_2_202103311190741_C001       Ocean Altimeter Range Quality, OCOG Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_202103311190741_2021033117200429_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, 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_2021033117200429_C001       Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331172013172013412_C001       Ocean Altimeter Range, SHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimet	CS_OFFL_SIR_NOPM_2_20210331T175919_20210331T182528_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210331T183801_20210331T190354_C001       and Backscatter Quality OCOG Altimeter Range and Backscatter Quality set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T190519_20210331T190519_20210331T190741_C001       CCOG 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_20210331T190519_20210331T190621_20210331T200429_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T200951_20210331T200429_C001       OCOG Altimeter Range Quality, 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_20210331T200951_20210331T201542_C001       OCean Altimeter Range, SSHA, SWH and Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T203837_20210331T204413_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, 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 have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T204522_20210331T204624_C001       Ocean Altimeter Range and Backscatter Quality Flags have been set and Backscatter Quality, OCOG Altimeter Range	CS_OFFL_SIR_NOPM_2_20210331T183034_20210331T183503_C001		
CS_OFFL_SIR_NOPM_2_20210331T193621_20210331T200429_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T193621_20210331T200429_C001       Ocean Altimeter Range and Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20210331T200951_20210331T201542_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T201709_20210331T203812_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T201709_20210331T203812_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T203802_20210331T203812_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T204543_20210331T204624_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T204543_20210331T204529_C001       Ocean Altimeter	CS_OFFL_SIR_NOPM_2_20210331T183801_20210331T190354_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210331T193621_20210331T200429_C001       and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20210331T200951_20210331T201542_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_20210331T201709_20210331T201542_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T201709_20210331T203812_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T204522_20210331T204624_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T205443_20210331T205539_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range and Backs	CS_OFFL_SIR_NOPM_2_20210331T190519_20210331T190741_C001		
CS_OFFL_SIR_NOPM_2_202103311201342_0011       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T201709_20210331T203812_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20210331T203837_20210331T204413_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         CS_OFFL_SIR_NOPM_2_20210331T204522_20210331T204624_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_20210331T204522_20210331T204624_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_20210331T204524_20210331T204624_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T205539_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T210809_20210331T214327_C001       Ocean Altimeter Range, SSHA, SWH and Backsc	CS_OFFL_SIR_NOPM_2_20210331T193621_20210331T200429_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210331T201709_20210331T203812_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T203837_20210331T204413_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter QualityThe Ocean Altimeter Range, SSHA, SWH 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_20210331T204522_20210331T204624_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T204522_20210331T204624_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T205443_20210331T205539_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T205443_20210331T205539_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T20609_20210331T214327_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and Backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20210331T200951_20210331T201542_C001		
CS_OFFL_SIR_NOPM_2_20210331T203837_20210331T204413_C001and Backscatter Quality, OCOG Altimeter Range and Backscatter Qualityand the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T204522_20210331T204624_C001OCOG Altimeter Range Quality, OCOG Backscatter QualityThe OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T204522_20210331T204524_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T205443_20210331T205539_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.CS_OFFL_SIR_NOPM_2_20210331T210809_20210331T214327_C001Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and Backscatter Quality, OCOGThe Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Ba	CS_OFFL_SIR_NOPM_2_20210331T201709_20210331T203812_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_202103311204522_202103311204624_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T2055443_20210331T205539_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality Flags.         CS_OFFL_SIR_NOPM_2_20210331T20509_20210331T214327_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and	CS_OFFL_SIR_NOPM_2_20210331T203837_20210331T204413_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210331T205443_20210331T205539_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210331T210809_20210331T214327_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20210331T204522_20210331T204624_C001		
CS_OFFL_SIR_NOPM_2_20210331T210809_20210331T214327_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20210331T205443_20210331T205539_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20210331T210809_20210331T214327_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20210331T214859_20210331T215414_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_20210331T215548_20210331T215855_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_20210331T220055_20210331T220328_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_20210331T223139_20210331T223418_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_20210331T224823_20210331T225702_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_20210331T225948_20210331T232238_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_20210331T232908_20210331T233315_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_20210331T233448_20210331T234820_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_20210331T235008_20210331T235723_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_20210331T010608_20210331T010720_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_20210331T024354_20210331T024635_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_20210331T051857_20210331T052206_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_20210331T082916_20210331T083040_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_20210331T095754_20210331T095758_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_20210331T133348_20210331T133633_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_20210331T172346_20210331T172655_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_20210331T232326_20210331T232740_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_20210331T000008_20210331T000058_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_20210331T041751_20210331T042007_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_20210331T043805_20210331T043810_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_20210331T075035_20210331T075101_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_20210331T122926_20210331T122934_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.
12 Quality Flags (20Hz PI PM)		

### 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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Product	Test Failed	Description
CS OFEL SIR NORN 2 20210331T020048 20210331T020237 C001	Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH 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_20210331T024354_20210331T024635_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_20210331T025954_20210331T030337_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_20210331T035312_20210331T035735_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_20210331T035744_20210331T040331_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_20210331T041629_20210331T041751_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_20210331T042007_20210331T042028_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_20210331T042055_20210331T042518_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_20210331T050954_20210331T051234_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_20210331T051857_20210331T052206_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_20210331T055953_20210331T060341_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_20210331T065943_20210331T070100_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_20210331T073458_20210331T074034_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_20210331T074944_20210331T075035_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_20210331T091833_20210331T092008_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_20210331T093205_20210331T093327_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_20210331T093746_20210331T093804_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_20210331T093838_20210331T094040_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_20210331T094918_20210331T094936_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_20210331T095423_20210331T095529_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_20210331T100855_20210331T101021_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_20210331T101540_20210331T101847_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_20210331T111704_20210331T111707_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_20210331T114839_20210331T115110_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_20210331T115441_20210331T115611_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_20210331T124721_20210331T124743_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_20210331T132920_20210331T133155_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_20210331T133348_20210331T133633_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_20210331T133825_20210331T134012_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_20210331T150453_20210331T150736_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_20210331T151757_20210331T151936_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_20210331T155853_20210331T155952_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_20210331T160720_20210331T160949_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_20210331T161148_20210331T161310_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_20210331T162632_20210331T162909_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_20210331T172346_20210331T172655_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_20210331T172751_20210331T172917_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_20210331T174310_20210331T174758_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_20210331T183504_20210331T183724_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_20210331T190741_20210331T190847_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_20210331T191755_20210331T191811_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_20210331T200557_20210331T200951_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_20210331T201542_20210331T201709_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_20210331T205206_20210331T205301_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_20210331T210514_20210331T210615_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_20210331T210655_20210331T210809_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_20210331T214546_20210331T214859_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_20210331T232326_20210331T232740_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_20210331T002452_20210331T002546_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_20210331T010720_20210331T011433_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_20210331T011653_20210331T011656_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_20210331T012905_20210331T013346_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_20210331T020238_20210331T020723_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_20210331T024635_20210331T025327_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_20210331T031325_20210331T031546_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_20210331T041751_20210331T042007_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_20210331T042518_20210331T043239_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_20210331T044612_20210331T044645_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_20210331T073016_20210331T073141_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_20210331T074832_20210331T074944_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_20210331T084004_20210331T084124_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_20210331T093124_20210331T093205_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_20210331T094040_20210331T094116_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_20210331T111209_20210331T111548_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_20210331T123252_20210331T123537_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_20210331T123604_20210331T123609_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_20210331T124620_20210331T124721_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_20210331T132606_20210331T132920_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_20210331T141205_20210331T141254_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_20210331T144459_20210331T144639_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_20210331T144654_20210331T144907_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_20210331T155802_20210331T155853_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_20210331T160608_20210331T160720_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_20210331T172153_20210331T172239_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_20210331T191343_20210331T191522_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_20210331T191557_20210331T191755_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_20210331T191811_20210331T192339_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_20210331T205132_20210331T205206_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_20210331T205721_20210331T210514_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.

	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS OFFE SIR NOPR 2 202103311220625 202103311220632 CO01	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_20210331T223542_20210331T224823_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

189

62

130

> 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.

7

1744

Number of products with errors:	Number of	products with errors:	
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### 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:

## 7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	195	195	6	189	0
SIR_NOPR1B	126	126	0	126	0
SIR_NOPN1B	108	108	1	107	0
SIR_NOPM_2	195	195	136	59	0
SIR_NOPR_2	126	126	54	70	2
SIR_NOPN_2	108	108	42	66	0

### 7.1 QCC Errors

#### Number of QCC reports with errors:

Total number of occurrences of each error										
Product Type RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPR_2 2	1	2	2	1	2					

rest Description Key:						
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF				
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF				
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				

### 7.2 QCC Warnings

#### Number of QCC reports with warnings

			l otal num	ber of occurrences of e	ach warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR_NOPM1B	189	0	0	0	0	0	0
SIR_NOPM_2	0	0	41	41	0	44	0
SIR_NOPN1B	107	0	0	0	0	0	0
SIR_NOPN_2	0	0	12	30	2	26	28
SIR_NOPR1B	121	0	0	0	0	0	0
SIR_NOPR_2	0	2	23	39	0	24	20
<u> </u>		·		÷		·	
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	38	1	36	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	18	0	0	0	21	0	31
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	9	1	0	36	0	45	0
L – – –	-	1	•	50	0	40	v
	l.	-	5		<u> </u>		-
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
Product Type SIR_NOPM1B	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF		RSSHAOFDNCDF 0		-
Product Type SIR_NOPM1B SIR_NOPM_2	RPEPOPLRMNCDF 0 29	RPEPOPSARNCDF       0       0	RPEPOPSINNCDF 0 0		RSSHAOFDNCDF 0 26	RSSHAOFDPLRMNCDF 0 0	-
Product Type SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B	RPEPOPLRMNCDF 0 29 0	RPEPOPSARNCDF 0 0 0	RPEPOPSINNCDF 0 0 0	RSSBCONCDF 0 9 0	RSSHAOFDNCDF 0 26 0	RSSHAOFDPLRMNCDF 0 0 0	RSSHAONCDF 0 7 0
Product Type SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2	RPEPOPLRMNCDF           0           29           0           0           0	RPEPOPSARNCDF 0 0 0 0 0	RPEPOPSINNCDF           0           0           0           27		RSSHAOFDNCDF           0           26           0           49	RSSHAOFDPLRMNCDF 0 0 0 57	<b>RSSHAONCDF</b> 0 7 0 30
Product Type SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2 SIR_NOPR1B	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           0	0 0 0 0 0 0	RPEPOPSINNCDF           0           0           0           27           0	<b>RSSBCONCDF</b> 0 9 0 20 0	RSSHAOFDNCDF           0           26           0           49           0	RSSHAOFDPLRMNCDF 0 0 0 57 0	RSSHAONCDF 0 7 0 30 0
Product Type SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2	RPEPOPLRMNCDF           0           29           0           0           0	RPEPOPSARNCDF           0           0           0           0           0           0           0           35	RPEPOPSINNCDF           0           0           27           0           0	RSSBCONCDF 0 9 0	RSSHAOFDNCDF           0           26           0           49	RSSHAOFDPLRMNCDF 0 0 0 57	<b>RSSHAONCDF</b> 0 7 0 30
Product Type SIR_NOPM1B SIR_NOPM2 SIR_NOPN1B SIR_NOPN2 SIR_NOPR1B SIR_NOPR2	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           0           0	0 0 0 0 0 35	0 0 27 0 0	RSSBCONCDF           0           9           0           20           0           2	RSSHAOFDNCDF           0           26           0           49           0           55	<b>RSSHAOFDPLRMNCDF</b> 0 0 0 57 0 26	RSSHAONCDF 0 7 0 30 0
Product Type SIR_NOPM1B SIR_NOPM12 SIR_NOPN1B SIR_NOPN2 SIR_NOPR1B SIR_NOPR2 Product Type	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           0           0           0           0           0           0           0           0	0 0 0 0 0 0	0 0 27 0 0	<b>RSSBCONCDF</b> 0 9 0 20 0	RSSHAOFDNCDF           0           26           0           49           0           55           SCSTODHRNCDF	RSSHAOFDPLRMNCDF 0 0 0 57 0	RSSHAONCDF 0 7 0 30 0
Product Type SIR_NOPM1B SIR_NOPM2 SIR_NOPN1B SIR_NOPN2 SIR_NOPR1B SIR_NOPR2 Product Type SIR_NOPM1B	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0           0	0 0 0 0 0 35	0 0 27 0 0	RSSBCONCDF           0           9           0           20           0           2	RSSHAOFDNCDF           0           26           0           49           0           55	<b>RSSHAOFDPLRMNCDF</b> 0 0 0 57 0 26	RSSHAONCDF 0 7 0 30 0
Product Type SIR_NOPM1B SIR_NOPM2 SIR_NOPN2 SIR_NOPN2 SIR_NOPR2 Product Type SIR_NOPM1B SIR_NOPM1B SIR_NOPM2	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           0           0           0           0           0           0           0           34	0 0 0 0 0 35	0 0 27 0 0	RSSBCONCDF           0           9           0           20           0           2	RSSHAOFDNCDF           0           26           0           55           SCSTODHRNCDF           0           0           0	<b>RSSHAOFDPLRMNCDF</b> 0 0 0 57 0 26	RSSHAONCDF 0 7 0 30 0
Product Type SIR_NOPM1B SIR_NOPM2 SIR_NOPN12 SIR_NOPN12 SIR_NOPR12 SIR_NOPR12 Product Type SIR_NOPM1B SIR_NOPM1B	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           0           0           34           0	0 0 0 0 35 <b>RSWHOEPFDPLRMNCDF</b> 0 0 0	0 0 27 0 0 0 <b>RSWHOEPNCDF</b> 0 5 0	RSSBCONCDF           0           9           0           20           0           2	RSSHAOFDNCDF           0           26           0           49           0           55           SCSTODHRNCDF	<b>RSSHAOFDPLRMNCDF</b> 0 0 0 57 0 26	RSSHAONCDF 0 7 0 30 0
Product Type SIR_NOPM1B SIR_NOPM2 SIR_NOPN2 SIR_NOPN12 SIR_NOPR1B SIR_NOPR2 Product Type SIR_NOPM12 SIR_NOPM12 SIR_NOPN1B SIR_NOPN2	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           34           0           28	0 0 0 0 0 35	0 0 27 0 0	RSSBCONCDF           0           9           0           20           0           2	RSSHAOFDNCDF           0           26           0           49           0           55           SCSTODHRNCDF           0           50           0	RSSHAOFDPLRMNCDF           0           0           0           57           0           26           SCSTODNCDF           2           0           0           0           0	RSSHAONCDF 0 7 0 30 0
Product Type SIR_NOPM1B SIR_NOPM2 SIR_NOPN12 SIR_NOPN12 SIR_NOPR12 SIR_NOPR12 Product Type SIR_NOPM1B SIR_NOPM1B	RPEPOPLRMNCDF           0           29           0           0           0           0           0           0           0           0           34           0	0 0 0 0 35 <b>RSWHOEPFDPLRMNCDF</b> 0 0 0	0 0 27 0 0 0 8 <b>SWHOEPNCDF</b> 0 5 0	RSSBCONCDF           0           9           0           20           0           2	RSSHAOFDNCDF           0           26           0           55           SCSTODHRNCDF           0           0           0	<b>RSSHAOFDPLRMNCDF</b> 0 0 0 57 0 26	RSSHAONCDF 0 7 0 30 0

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

0