

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

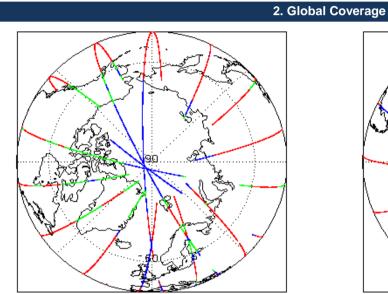
<u>05/09/2021</u>

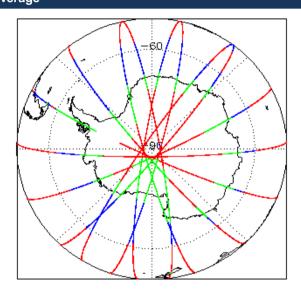
eport Production:	06-Sep-2021	Check	L1 & L2
Report Production:		Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product 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 and 5.5
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1. 7.2

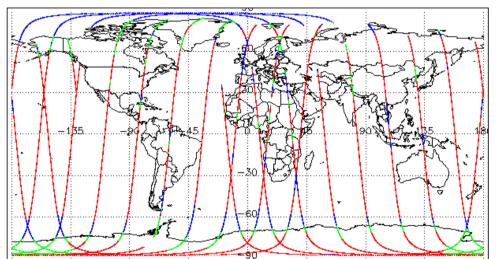
1. Overview

# Mission / Instrument News 04-Sep-2021 None

05-Sep-2021 Due to unknown events, X-band passes have not been able to be acquired at the ground station thus L0 data coverage is missing since 2021-09-05 16:34:32. 06-Sep-2021 Nothing planned









# 3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

# 4.1 L1B Product Format Check

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

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# 4.2 L1B Product Header Analysis

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

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

Number of products with errors:

### 4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

# 4.4 L1B Auxiliary Correction Error Check

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

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Number of products with errors:

### 4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210905T034825_20210905T035013_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20210905T102120_20210905T102629_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

### 4.6 L1B Waveform Group Data Check

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

> Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210905T062918_20210905T063953_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210905T070138_20210905T071754_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210905T120241_20210905T123246_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210905T020952_20210905T021103_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210905T051644_20210905T051909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210905T083459_20210905T083714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210905T101424_20210905T101908_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210905T073352_20210905T073418_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210905T131713_20210905T131817_C001	Loss of Echo	The tracking echo is missing for one or more records

# 5. NOP Level 2 Data Quality Check

### 5.1 L2 Product Format Check

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

Number of products with errors:

#### 5.2 L2 Product Header Analysis

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

Number of products with errors:

### 5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

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### 5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.

> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210905T000710_20210905T001128_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210905T010025_20210905T010150_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_20210905T023957_20210905T024122_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_20210905T024636_20210905T024938_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_20210905T042001_20210905T042305_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_20210905T042539_20210905T043051_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_20210905T051644_20210905T051909_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide heig (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210905T060017_20210905T060251_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_20210905T065530_20210905T065646_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_20210905T065854_20210905T070138_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_20210905T073517_20210905T073925_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_20210905T083459_20210905T083714_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_20210905T091738_20210905T091920_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_20210905T101424_20210905T101908_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_20210905T110557_20210905T110837_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_20210905T123700_20210905T124049_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_20210905T131818_20210905T131846_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_20210905T132505_20210905T132544_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210905T133803_20210905T133930_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210905T141641_20210905T141955_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_20210905T142509_20210905T142626_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_20210905T160416_20210905T160529_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_20210905T062714_20210905T062917_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_20210905T101016_20210905T101423_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_20210905T114842_20210905T115503_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_20210905T131713_20210905T131817_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_20210905T132820_20210905T133607_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_20210905T150809_20210905T151644_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynami Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check			
CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.			
Number of products with errors: 2			
Product	Test Failed	Description	
CS_OFFL_SIR_NOPM_2_20210905T034825_20210905T035013_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records	
CS_OFFL_SIR_NOPM_2_20210905T102120_20210905T102629_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records	
5.6 L2 Measurement Quality Flag Check			
L2 Quality Flags (20Hz)			
CryoSat L2 data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz r	measurement record. The bit value of this flag i	ndicates any problems when set.	
Currently, there are several common flags raised in the Level 2 products,	which are summarised below. The table pro	vides the full list of products flagged.	
> Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags: The	se flags are currently set for some records ove	r ocean.	
> OCOG Altimeter Range and Backscatter Quality Flags: These flags are cu	urrently set for some records over continental ic	ze.	
Number of products with errors: 61			
Product	Test Failed	Description	
CS_OFFL_SIR_NOPM_2_20210904T233430_20210905T000709_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags r and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20210905T002021_20210905T002153_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags r and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20210905T003033_20210905T004420_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags r and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20210905T004433_20210905T004950_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags r and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	
CS_OFFL_SIR_NOPM_2_20210905T005341_20210905T005752_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimete Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags r and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	
	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set	

CS_OFFL_SIR_NOPM_2_20210905T005341_20210905T005752_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_20210905T010150_20210905T010945_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_20210905T011533_20210905T014704_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_20210905T015908_20210905T020123_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_20210905T022734_20210905T023543_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_20210905T024122_20210905T024636_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_20210905T025342_20210905T031451_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_20210905T031736_20210905T032911_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_20210905T033827_20210905T034139_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_20210905T035137_20210905T035540_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_20210905T035737_20210905T040343_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_20210905T040531_20210905T041540_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_20210905T043313_20210905T050305_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.
	Ocean Altimator Pango, SSHA, SW/H	The Ocean Altimator Pange, SSHA, SWH and Packscatter Quality Flags

Range and Backscatter Quality

Range and Backscatter Quality

OCOG Altimeter Range Quality, OCOG Backscatter Quality

Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

for one or more records.

The OCOG Altimeter Range and Backscatter Quality Flags have been set

CS\_OFFL\_SIR\_NOPM\_2\_20210905T060644\_20210905T060951\_C001

CS\_OFFL\_SIR\_NOPM\_2\_20210905T050320\_20210905T050921\_C001

CS\_OFFL\_SIR\_NOPM\_2\_20210905T052059\_20210905T055317\_C001

D2_DHEBE_UNDER_2_D211001701012_D2110017001701     Data Manue Runge D300_D10111     Data Manue Runge D300_D10111       D2_DHEBE_UNDER_2_D211001700012_D211001700010_D1011     DDDD MANUE Runge D300_D101111     Data Manue Runge D300_D101111       D3_DHEBE_UNDER_2_D211001700010_D212010001700010_D10110     DDDD MANUE Runge D300_D101111     DDD MANUE Runge D300_D101111       D3_DHEBE_UNDER_2_D21100170170010_D10110     DDDD MANUE Runge D300_D101111     DDD MANUE Runge D300_D101111       D3_DHEBE_UNDER_2_D21100170170010_D10110     DDDD MANUE Runge D300_D101111     DDD MANUE Runge D300_D101111       D3_DHEBE_UNDER_2_D21100170170010_D10110     DDDD MANUE Runge D300_D101111     DDD MANUE Runge D300_D101111       D3_DHEBE_UNDER_2_D21100017017010_D1011     DDDD MANUE Runge D300_D101111     DDD MANUE Runge D300_D101111       D3_DHEBE_UNDER_2_D21100017017010_D1011     DDDD MANUE Runge D300_D101111     DDD MANUE Runge D300_D101111       D3_DHEBE_UNDER_2_D21100017017010_D1011     DDDD MANUE Runge D300_D101111     DDD MANUE Runge D300_D101111       D3_DHEBE_UNDER_2_D21100017017012_D101100000_D10001     DDDD MANUE Runge D300_D101111     DDD MANUE RUNGE D300_D101111       D3_DHEBE_UNDER_2_D21100017017012_D101100000_D10001     DDDD MANUE RUNGE D300_D100000_D10000     DDDD MANUE RUNGE D300_D10000     DDD MANUE RUNGE D300_D100000_D10000       D3_DHEBE_UNDER_2_D2110001701012_D10110000D_D10000     DDDD MANUE RUNGE D300_D100000_D10000     DDDD MANUE RUNGE D3000_D10000_D100000     DDDD MANUE RUNGE D3000_D10000_D10000_D10000_D10000_	CS_OFFL_SIR_NOPM_2_20210905T061217_20210905T061526_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.
BL, PET, JR, NOPA 2, 30210007119317, 202100071190651, 2021       and Statuscent Cally, CEC Alternative Leads for COCO Alternative Lange of Bancacent Cally, Figst here laters at the Lange of Bancacent Cally, CEC Alternative Leads for COCO Alternative Lange of Bancacent Cally, Figst here laters at the Lange of Bancacent Cally, Figst here lat the Cally, Figst here laters at	CS_OFFL_SIR_NOPM_2_20210905T061534_20210905T062714_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CCUC LONG, COMPLEX, CANDING HOUSE LOOP         Revision Canady         In the an intermination           CCL, DER, LER, LORM, A., DEVOXETHYTEL, LERIT         Complex Allinger for the anticipation of the antin antin antin anticipation of the anticipation of the anticipat	CS_OFFL_SIR_NOPM_2_20210905T062917_20210905T063953_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C2: OFTL SR. NOPM 2. 2021005170/119. 2021065170/154. 001 C3: OFTL SR. NOPM 2. 2021005170/15227 .2021065170/1540. 0001 C4: OFTL SR. NOPM 2. 2021005170/162 .2021065170/1540. 0001 C4: OFTL SR. NOPM 2. 2021005170/162 .2021065170/1640. 0001 C4: OFTL SR. NOPM 2. 2021005170/162 .2021065170/1640. 0001 C5: OFTL SR. NOPM 2. 2021005170/162 .2021065170/640. 0001 C5: OFTL SR. NOPM 2. 2021005170/640. 0001 C5: OFTL SR. NOPM 2. 2021005170/	CS_OFFL_SIR_NOPM_2_20210905T065647_20210905T065853_C001		
Column         To react more scores.           Column         Decomposition         Decomposition           Column         Decomposition         Decomposition           Column         Decomposition         Decomposition           Column         Decomposition         Decomposition           Column         Decomposition         Decomposition         Decomposition           Column         Decomposition         Decomposition         Decomposition           Column         Decomposition         Decomposition         Decomposition           Column         Decomposition         Decomposition         Decomposition         Decomposition           Column         Decomposition	CS_OFFL_SIR_NOPM_2_20210905T070138_20210905T071754_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CE_DFTL_SR_NOPKL2.2021000T07319_2021000T07319_2021000T07309_0001     and Backasotar Quality, OCOO     The OCOO Alteret Reage and Backasotar Quality Plags have been set thr and manual manuals.       CB_OFTL_SR_NOPKL2.2021000T07463_2021000T07463_COOI     OCOO Alteret Range Quality, OCOO     The OCOO Alteret Range and Backasotar Quality Plags have been set thr and manuals.       CB_OFTL_SR_NOPKL2.2021000T07463_2021000T07463_COOI     OCOO Alteret Range Quality, OCOO     The OCOO Alteret Range Quality, OCOO       CB_OFTL_SR_NOPKL2.2021000T07463_2021000T07463_COOI     OCOIA Alteret Range Quality, OCOO     The OCOO Alteret Range Quality, OCOO       CB_OFTL_SR_NOPKL2.2021000T07463_2021000T07463_COOI     OCOIA Alteret Range Quality, OCOO     The OCOO Alteret Range Quality, OCOO       CB_OFTL_SR_NOPKL2.2021000T076142_D2021000T061000_COOI     OCOIA Alteret Range QUALITY, OCOO Alteret Range SR_NOPKL     The OCOO Alteret Range SR_NOPKL       CB_OFTL_SR_NOPKL2.2021000T064012_D2021000T061000_COOI     OCoin Alteret Range, SR_NOPKL     The OCOIN Alteret Range SR_NOPKL       CB_OFTL_SR_NOPKL2.2021000T064011_D201001     Ocean Alteret Range, SR_NOPKL     The OCOIN Alteret Range SR_NOPKL       CB_OFTL_SR_NOPKL2.2021000T064011_D201000T065011_COOI     Ocean Alteret Range, SR_NOPKL2.0021000T064011_D201000T065011_COOI       CB_OFTL_SR_NOPKL2.2021000T064011_D201000T065011_COOI     Ocean Alteret Range, SR_NOPKL2.0021000T064011_D201000T065011_COOI       CB_OFTL_SR_NOPKL2.2021000T064010_COOI     Ocean Alteret Range, SR_NOPKL2.0021000T064011_D201000T065011_COOI       CB_OFTL_SR_NOPKL2.2021000T064010_COOI     O	CS_OFFL_SIR_NOPM_2_20210905T072327_20210905T072938_C001		
OCUTL_SRL_NOME_2.021006101/162_0210051074402_001         Bestendard Quarky         For one or more records.           CS. 0FH_SRL_NOME_2.0210061074402_0011         DCOG Alterete Range Quarky COOD Network Program Control         The COOR Alterete Range, SSHA, SWH and Backsteller Quarky Flags here here records.           CS. 0FH_SRL_NOME_2.02100610705142_021096100100_0011         Dcean Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.         The Count Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.           CS. 0FH_SRL_NOME_2.02100610021_2021096100100_0011         Dcean Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.         The Count Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.           CS. 0FH_SRL_NOME_2.021006100402_0221021096104020_0011         Dcean Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.         The Count Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.           CS. 0FH_SRL_NOME_2.0210060104401_2021096104640_0011         Dcean Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.         The Count Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.           CS. 0FH_SRL_NOME_2.0210060104441_0011         Dcean Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.         The Count Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.           CS. 0FH_SRL_NOME_2.02100601044030_02001         Dcean Altereter Range, SSHA, SWH and Backsteller Quarky Flags here here records.         The Count Altereter Range, SSHA,	CS_OFFL_SIR_NOPM_2_20210905T073418_20210905T073458_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Day Set, NoPPL 2, 20110061102422, 20210061102640, 2011         Bioscontr Cuality         to mo a more mode.           DS_0FPL_SRI, NOPPL 2, 20210061102142, 20210061102060, 2011         Ocean Attenter Range, SRIA, SWH         The Ocean Attenter Range and Bioscontr Cuality Fags           DS_0FPL_SRI, NOPPL 2, 20210061102012, 20210061102010, 20210061102001, 20210061102010, 20210061102012, 20210061102020, 202100061102020, 20210061102020, 20210061102020, 202100611	CS_OFFL_SIR_NOPM_2_20210905T074125_20210905T074408_C001		
CB. DFTL_SIR_NOPM_2_20210005T005142_20210005T080054_C011     and Baskastater Duality     DCCO Altimeter and the OCG Altimeter and the OCG Altimeter and the OCG Altimeter and the OCG Altimeter	CS_OFFL_SIR_NOPM_2_20210905T074423_20210905T074852_C001		
CS_OFFL_SIR_NOPM_2_20210005T080721_02210005T081201003_C001         and Bostanter Quality         The Occos Almenter Range and Bastanter Quality Flage have been stating and Bastanter Quality           CS_OFFL_SIR_NOPM_2_20210005T084032_00210005T084234_0001         Cosen Almenter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T084032_00210005T08504_0001         Cosen Almenter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T084034_0001_C001         Cosen Almenter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T084045_002100501_C001         Cosen Almenter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T08502_00210055T091527_C001         Cosen Almeter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T08550_00210055T091527_C001         Cosen Almeter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T08550_0021005500_002100         Cosen Almeter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T081502_0021         Cosen Almeter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_OFFL_SIR_NOPM_2_20210005T010502_00201         Cosen Almeter Range, SSHA, SWH and Bastanter Quality Flage have been station or none records.           CS_	CS_OFFL_SIR_NOPM_2_20210905T075142_20210905T080540_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_NOPM_2_2021006T084032_02210005T084248_C001       and Backscatter Quality	CS_OFFL_SIR_NOPM_2_20210905T080721_20210905T081003_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SR_NOPM_2.202109057084411_202109057085001_C001         and Backscatter Quality COGG Alimeter and backscatter Quality Flags have been and backscatter Quality Flags hav	CS_OFFL_SIR_NOPM_2_20210905T084032_20210905T084248_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_202108057085524_C001       and Backszetter Quality, COG Allimeter Range and Backszetter Quality, Flags have been set for on or more records.         CS_OFFL_SIR_NOPM_2_202108057085530_202108057091527_C001       Coean Altimeter Range, SSHA, SWH and Backszetter Quality, Flags have been set for on or more records.         CS_OFFL_SIR_NOPM_2_202108057085530_202108057091527_C001       Coean Altimeter Range, SSHA, SWH and Backszetter Quality, Flags have been set for on or more records.         CS_OFFL_SIR_NOPM_2_20210805709120_202108057092800_C001       COCG Altimeter Range Quality, CCGG       The OCCGA Altimeter Range and Backszetter Quality Flags have been set for on or more records.         CS_OFFL_SIR_NOPM_2_202108057093120_20210805709524_C001       Occan Altimeter Range, SSHA, SWH and Backszetter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210805710338_202108057105456_C001       Ocean Altimeter Range, SSHA, SWH and Backszetter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_202108057110135_202108057105456_C001       Ocean Altimeter Range, SSHA, SWH and Backszetter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_2021080571110155_2021080571110155_2021080571110155_2021080571110155_2021080571111557_C001       Ocean Altimeter Range, SSHA, SWH and Backszetter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_2021080571120241_2021080571122246_C001       Ocean Altimeter Range, SSHA, SWH and Backszetter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_2021080571128245_2021080571122246_C001	CS_OFFL_SIR_NOPM_2_20210905T084411_20210905T085001_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T095530_20210905T09527_C001       and Backscatter Quality       and backscatter Quality       and the CCOG Allimeter Range and Backscatter Quality       Figs on more records.         CS_OFFL_SIR_NOPM_2_20210905T091920_20210905T09524_C001       CCOG Allimeter Range Quality, CCOG Allimeter Range, SSHA, SWH and Backscatter Quality       The Ocoan Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T093120_20210905T105456_C001       CCOG Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T103038_02010905T105456_C001       Cocan Allimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110135_02010905T110556_C001       CCOG Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110156_C001       CCOG Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110156_C001       CCCGA Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T11046_02010905T1126456_C001       CCCGA Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T1126456_C001       Cocan Alimeter Range Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_2021	CS_OFFL_SIR_NOPM_2_20210905T085245_20210905T085524_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905109120_20210905T095524_C001       Backscatter Quality       For one or more records.         CS_OFFL_SIR_NOPM_2_20210905T095524_C001       Cocen Altimeter Range, SSHA, SWH and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T103038_20210905T105456_C001       Cocen Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110135_20210905T1105456_C001       Cocen Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110135_20210905T110556_C001       COCG Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110135_20210905T113517_C001       Coden Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T1120241_20210905T1122246_C001       Coden Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T1124049_20210905T12246_C001       Coden Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T1124049_20210905T12246_C001       Coden Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T1124049_20210905T122462_C001       Coden Altimeter Range SSHA, SWH and Backscatter Quality F	CS_OFFL_SIR_NOPM_2_20210905T085530_20210905T091527_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T093120_20210905T10305824_C001       and Backscatter Quality. COG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T103038_20210905T105456_C001       Ocean Altimeter Range, SHA, SWH and Backscatter Quality. OCCG Altimeter Range and Backscatter Quality. CCCG Altimeter Range and Backscatter Quality. CCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110135_20210905T110556_C001       OCCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T111048_20210905T113517_C001       Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T1120241_20210905T1123246_C001       Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T120241_20210905T123246_C001       Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124049_20210905T124636_C001       Ocean Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124636_C001       OCCG Altimeter Range Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124636_C001       OCCGA Altimeter Range Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. <tr< td=""><td>CS_OFFL_SIR_NOPM_2_20210905T091920_20210905T092800_C001</td><td></td><td>, .</td></tr<>	CS_OFFL_SIR_NOPM_2_20210905T091920_20210905T092800_C001		, .
CS_OFFL_SIR_NOPM_2_20210905T103038_20210905T105456_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T110135_20210905T110556_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_20210905T110148_20210905T113517_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T120241_20210905T123246_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T120241_20210905T123246_C001       Ocean Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124049_20210905T124636_C001       OCCG Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124049_20210905T125420_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T12540_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T12541_20210905T12540_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Qualit	CS_OFFL_SIR_NOPM_2_20210905T093120_20210905T095524_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T110135_20210905T113517_C001       Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T11048_20210905T113517_C001       Ocean Altimeter Range, SSHA, SWH 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_20210905T120241_20210905T123246_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124049_20210905T124636_C001       Ocean Altimeter Range Quality, OCOG       The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124049_20210905T124636_C001       OCOG Altimeter Range Quality, OCOG       The OCean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124056_20210905T124636_C001       OCean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124956_20210905T130505_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001	CS_OFFL_SIR_NOPM_2_20210905T103038_20210905T105456_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T111048_20210905T113517_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T120241_20210905T123246_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T12044_20210905T124636_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_20210905T124049_20210905T124636_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124056_20210905T125420_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T125420_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T130505_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.      <	CS_OFFL_SIR_NOPM_2_20210905T110135_20210905T110556_C001		
CS_OFFL_SIR_NOPM_2_20210905T120241_20210905T123246_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124049_20210905T124636_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_20210905T124049_20210905T124636_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124956_20210905T125420_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T125420_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T130505_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132930_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T133930_20210905T141239_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210905T111048_20210905T113517_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T12405_20210905T124636_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T124956_20210905T125420_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_20210905T125814_20210905T130505_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_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH 	CS_OFFL_SIR_NOPM_2_20210905T120241_20210905T123246_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T124956_20210905T125420_C001       and Backscatter Quality, OCOG Altimeter       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T130505_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T130505_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T133930_20210905T141239_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality.       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210905T124049_20210905T124636_C001		
CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T130505_C001       and Backscatter Quality, OCOG Altimeter       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20210905T133930_20210905T141239_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter	CS_OFFL_SIR_NOPM_2_20210905T124956_20210905T125420_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter CS_OFFL_SIR_NOPM_2_20210905T133930_20210905T141239_C001 ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter and Backscatter Quality, OCOG Altimeter and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20210905T125814_20210905T130505_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210905T133930_20210905T141239_C001 and Backscatter Quality, OCOG Altimeter and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20210905T132545_20210905T132736_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20210905T133930_20210905T141239_C001	and Backscatter Quality, OCOG Altimeter	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20210905T141956_20210905T142508_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_20210905T143048_20210905T144617_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_20210905T150228_20210905T150323_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_20210905T150444_20210905T150633_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_20210905T151645_20210905T152805_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_20210905T153051_20210905T154644_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_20210905T154649_20210905T155144_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_20210905T160004_20210905T160415_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_20210905T160915_20210905T162828_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_20210905T162906_20210905T163342_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_20210905T000710_20210905T001128_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_20210905T020952_20210905T021103_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_20210905T001946_20210905T002021_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_20210905T072938_20210905T073338_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_20210905T132405_20210905T132434_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

# L2 Quality Flags (20Hz PLRM)

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

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

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

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Product	Test Falled	Description
Product		Description
CS_OFFL_SIR_NOPN_2_20210905T000710_20210905T001128_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_20210905T010946_20210905T011058_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_20210905T014855_20210905T014928_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_20210905T021704_20210905T021848_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_20210905T023957_20210905T024122_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_20210905T035541_20210905T035736_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_20210905T042001_20210905T042305_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_20210905T060017_20210905T060251_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_20210905T060447_20210905T060644_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_20210905T063954_20210905T064235_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_20210905T065854_20210905T070138_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_20210905T072220_20210905T072234_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_20210905T073517_20210905T073925_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_20210905T074853_20210905T075034_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_20210905T083803_20210905T084031_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_20210905T095525_20210905T095755_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_20210905T101424_20210905T101908_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_20210905T101958_20210905T102120_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_20210905T110557_20210905T110837_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_20210905T123700_20210905T124049_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_20210905T131157_20210905T131302_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_20210905T132505_20210905T132544_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_20210905T133803_20210905T133930_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_20210905T141641_20210905T141955_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_20210905T142509_20210905T142626_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_20210905T144618_20210905T144758_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_20210905T155359_20210905T155816_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_20210905T160416_20210905T160529_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_20210905T005753_20210905T010025_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_20210905T011059_20210905T011532_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_20210905T014802_20210905T014854_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_20210905T022446_20210905T022734_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_20210905T023543_20210905T023956_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_20210905T024939_20210905T025342_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_20210905T034140_20210905T034825_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_20210905T041540_20210905T042000_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_20210905T043052_20210905T043313_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_20210905T055317_20210905T060017_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_20210905T071754_20210905T072006_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_20210905T072938_20210905T073338_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_20210905T081004_20210905T081222_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_20210905T081222_20210905T081430_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_20210905T091527_20210905T091737_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_20210905T092946_20210905T093120_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_20210905T101016_20210905T101423_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_20210905T105457_20210905T105715_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_20210905T110837_20210905T111048_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_20210905T114842_20210905T115503_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_20210905T123246_20210905T123700_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_20210905T124757_20210905T124956_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_20210905T132206_20210905T132242_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_20210905T132820_20210905T133607_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_20210905T141240_20210905T141641_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_20210905T142627_20210905T143048_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_20210905T145839_20210905T145853_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_20210905T150634_20210905T150743_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_20210905T150809_20210905T151644_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_20210905T155145_20210905T155359_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_20210905T160529_20210905T160914_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

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

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

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

Number of products with errors:

etracking Flags (20Hz	z)				
at L2 data includes an ocear	n retracking quality flag for each	20-Hz measurement record. The bit	value of this flag indicates any	problems when set.	
Retracking Quality Flag:	This flag is currently set for prod	lucts falling at ocean/ land boundaries	s, but this is expected.		
er of products with errors:	34				
etracking Flags (20Hz	z, PLRM)				
at L2 data includes an ocear	retracking quality flag for each	20-Hz PLRM measurement record.	The bit value of this flag indicat	es any problems when set.	
Retracking Quality Flag (	PLRM): This flag is currently set	t for products NOPR and NOPN prod	ucts over sea ice, but this is to	be expected.	
0,000	, , ,			be expected.	
er of products with errors:	90				
er of products with errors:	90		nort Analysis		
er of products with errors	90	7. NOP QCC Re	port Analysis		
		7. NOP QCC Re		d LTA processing facilities. A list of th	e tests which raised erro
				d LTA processing facilities. A list of th	e tests which raised erro
uality Control for CryoSat (Q		survey of data products immediately a		· ·	e tests which raised erro No. Errors
uality Control for CryoSat (Q gs is provided below.	CC) facility performs a primary s		after production by the PDS an	d LTA processing facilities. A list of th No. Warnings 0	
uality Control for CryoSat (Q gs is provided below. <b>Product type</b>	CC) facility performs a primary s	survey of data products immediately a	after production by the PDS an No. Valid	No. Warnings	No. Errors
uality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B	CC) facility performs a primary s No. Products 96	survey of data products immediately a No. QCC Reports 0	after production by the PDS an No. Valid 0	No. Warnings	No. Errors 0
uality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B SIR_NOPR1B	CC) facility performs a primary s No. Products 96 63	No. QCC Reports 0 0 0	after production by the PDS an No. Valid 0 0	No. Warnings 0 0	<b>No. Errors</b> 0 0
uality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B SIR_NOPR1B SIR_NOPN1B	CC) facility performs a primary s No. Products 96 63 67	No. QCC Reports 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	after production by the PDS an No. Valid 0 0 0 0	No. Warnings 0 0 0 0 0	<b>No. Errors</b> 0 0 0
Jality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B SIR_NOPN1B SIR_NOPN1B SIR_NOPN12	CC) facility performs a primary s No. Products 96 63 67 96	No. QCC Reports  No. QCC Reports  0  0  0  0  0  0  0  0  0  0  0  0  0	after production by the PDS an No. Valid 0 0 0 0 0 0	No. Warnings           0           0           0           0           0           0           0	No. Errors 0 0 0 0
Jality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B SIR_NOPR1B SIR_NOPM1B SIR_NOPM_2 SIR_NOPR_2	CC) facility performs a primary s No. Products 96 63 67 96 63	No. QCC Reports  No. QCC Reports  0  0  0  0  0  0  0  0  0  0  0  0  0	After production by the PDS an No. Valid 0 0 0 0 0 0 0	No. Warnings           0           0           0           0           0           0           0           0           0           0           0           0           0	No. Errors 0 0 0 0 0 0
Jality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B SIR_NOPR1B SIR_NOPM1B SIR_NOPM_2 SIR_NOPM_2 SIR_NOPR_2 SIR_NOPN_2	CC) facility performs a primary s No. Products 96 63 67 96 63	No. QCC Reports  No. QCC Reports  0  0  0  0  0  0  0  0  0  0  0  0  0	After production by the PDS an No. Valid 0 0 0 0 0 0 0	No. Warnings           0           0           0           0           0           0           0           0           0           0           0           0           0	No. Errors 0 0 0 0 0 0
Jality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B SIR_NOPR1B SIR_NOPM1B SIR_NOPM_2 SIR_NOPR_2	CC) facility performs a primary s No. Products 96 63 67 96 63	No. QCC Reports  No. QCC Reports  0  0  0  0  0  0  0  0  0  0  0  0  0	After production by the PDS an No. Valid 0 0 0 0 0 0 0	No. Warnings           0           0           0           0           0           0           0           0           0           0           0           0           0	No. Errors 0 0 0 0 0 0
Jality Control for CryoSat (Q gs is provided below. Product type SIR_NOPM1B SIR_NOPR1B SIR_NOPM1B SIR_NOPM_2 SIR_NOPM_2 SIR_NOPR_2 SIR_NOPN_2	CC) facility performs a primary s 96 63 67 96 63 67 63 63 67	No. QCC Reports  No. QCC Reports  0  0  0  0  0  0  0  0  0  0  0  0  0	After production by the PDS an No. Valid 0 0 0 0 0 0 0	No. Warnings           0           0           0           0           0           0           0           0           0           0           0           0           0	No. Errors 0 0 0 0 0 0

# 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0