

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

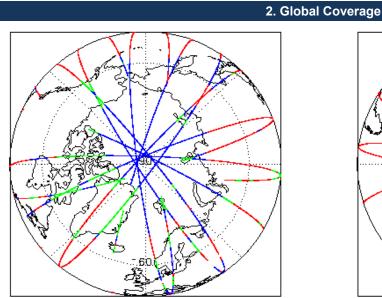
<u>21/01/2022</u>

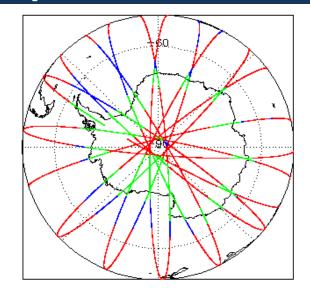
# IDEAS-QA4E0

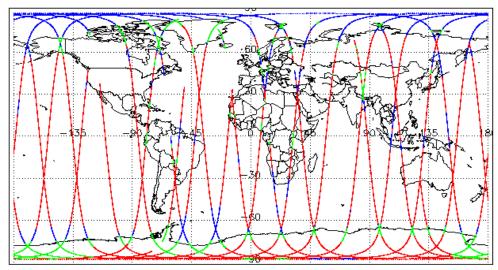
		Check	L1 & L2
Report Production:	24-Jan-2022	Server check: science-pds.cryosat.esa.int	Nominal
		Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal
Dete Heads	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Used:	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

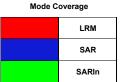
1. Overview

Mission / Instrument News		
20-Jan-2022	None	
21-Jan-2022	SIRAL unavailability on 21-Jan-2022 from 03:03:17 to 04:54:25 due to a planned Orbit Manoeuvre.	
22-Jan-2022	Nothing planned	









## 3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

0

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.				
> L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and				
OSARIn chains. A modification is required in the next release.				
Number of products with errors: 0				
4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also	to check the validity of Auxiliary Data Files is correct.		
> Dynamic Atmospheric Correction: The DAC is missing in all products bec	ause the auxiliary files required	are not available 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 reco	d. The bit value of this flag indic	ates any problems when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurer	ment record. The bit value of this	flag indicates any problems when set.		
		sue. The attitude correction is not actually missing, This is being investigated and will b		
Number of products with errors: 0				
4.6 L1B Waveform Group Data Check	d. The bit value of this flag indice	ates any problems when set		
4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement recor > Loss of Echo Flag: This flag is currently set for occasional products over la	-	ates any problems when set.		
4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         Loss of Echo Flag: This flag is currently set for occasional products over la         Jumber of products with errors:       17	ind, but this is to be expected.			
4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recompleters of Echo Flag: This flag is currently set for occasional products over land the set of products with errors:         Number of products with errors:       17         Product       17	-	Description		
4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         Loss of Echo Flag: This flag is currently set for occasional products over la         Number of products with errors:       17         Product         CS_OFFL_SIR_NOPM1B_20220121T061634_20220121T061724_C001	nd, but this is to be expected.			
4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement record         Loss of Echo Flag: This flag is currently set for occasional products over la         Number of products with errors:       17         Product       12         CS_OFFL_SIR_NOPM1B_20220121T061634_20220121T061724_C001         CS_OFFL_SIR_NOPM1B_20220121T062959_20220121T070454_C001	Test Failed	Description The tracking echo is missing for one or more records		
4.6 L1B Waveform Group Data Check         CryoSat L1B data includes a waveform data flag for each measurement recomplete to a solution of the second second products over la second products with errors:         Loss of Echo Flag: This flag is currently set for occasional products over la second products with errors:         Number of products with errors:         17         Product         CS_OFFL_SIR_NOPM1B_20220121T061634_20220121T061724_C001         CS_OFFL_SIR_NOPM1B_20220121T062959_20220121T07454_C001         CS_OFFL_SIR_NOPM1B_20220121T075327_20220121T075557_C001	Test Failed Loss of Echo Loss of Echo	Description           The tracking echo is missing for one or more records           The tracking echo is missing for one or more records		
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## 5. NOP Level 2 Data Quality Check

### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). Number of products with errors: 0

### 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: 0

### 5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

### 5.4 L2 Auxiliary Correction Error Check

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

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

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

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

45

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

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

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220121T001501_20220121T002642_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20220121T025621_20220121T025727_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPM_2_20220121T153332_20220121T160209_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_20220121T002642_20220121T003026_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_20220121T012046_20220121T012140_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_20220121T012547_20220121T012757_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_20220121T012907_20220121T013136_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non- Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPN_2_20220121T020834_20220121T021014_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_20220121T021859_20220121T022107_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_20220121T052746_20220121T053140_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20220121T070734_20220121T071047_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_20220121T075208_20220121T075326_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_20220121T084512_20220121T084927_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_20220121T085505_20220121T085629_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_20220121T093437_20220121T093641_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_20220121T103249_20220121T103435_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_20220121T111644_20220121T111737_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_20220121T121049_20220121T121310_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_20220121T125440_20220121T125652_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20220121T134100_20220121T134302_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_20220121T134948_20220121T135422_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_20220121T143124_20220121T143516_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_20220121T152114_20220121T152346_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_20220121T153107_20220121T153251_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_20220121T171007_20220121T171143_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_20220121T184014_20220121T184130_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_20220121T184705_20220121T185023_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_20220121T201932_20220121T202052_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_20220121T202601_20220121T202912_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20220121T220025_20220121T220305_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_20220121T220505_20220121T221036_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_20220121T225555_20220121T230037_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records

CS_OFFL_SIR_NOPN_2_20220121T233939_20220121T234215_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_20220121T060819_20220121T061001_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_20220121T061911_20220121T062702_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_20220121T075557_20220121T081003_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_20220121T093841_20220121T094630_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_20220121T111737_20220121T112318_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_20220121T125653_20220121T130342_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_20220121T143517_20220121T144033_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_20220121T161320_20220121T162331_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_20220121T175114_20220121T175848_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_20220121T180804_20220121T181002_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_20220121T225028_20220121T225404_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_20220121T225404_20220121T225555_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

### 5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

### 5.6 L2 Measurement Quality Flag Check

#### L2 Quality Flags (20 Hz)

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

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

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

0

81

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

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220120T235301_20220121T000646_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_20220121T001501_20220121T002642_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_20220121T003522_20220121T003946_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_20220121T004132_20220121T004836_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_20220121T004842_20220121T005629_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_20220121T005809_20220121T011236_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_20220121T013907_20220121T014208_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_20220121T014331_20220121T014819_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_20220121T015046_20220121T020731_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_20220121T021014_20220121T021858_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_20220121T022113_20220121T024339_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

CH: OPEL SR: NOPM 2 2022117106420 2022017110244. 0001     and Stabilization Could Market Frage 2016, 2017     individual Regular (SR) (SR)       CS: OPEL SR: NOPM 2 2022117106410, 20220171102410, 2021     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 2022117106410, 20220171102410, 20220171102410, 20220171102410, 2017     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 2022117107140, 20220171102401, 2021     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 2022117107140, 20220171102401, 2021     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 2022117107140, 20220171102401, 2017     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 20220171102401, 20220171102401, 2017     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 20220171102401, 20220171102401, 2007     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 20220171102401, 2022017110240, 2007     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 2022017110240, 2007     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 2022017110240, 2007     Count Aliance Frage 2016, 2017     The Outer Aliance Frage 2016, 2017       CS: OPEL SR: NOPM 2 2022017110240, 2017     Count Aliance Frage 2016, 201			
CB, OFFL, DRI, VORM, 2, 2020101105310, 2020111052030, 2001         and streamy farge Database farge and bases after Database after Databases after Database farge and bases after Databas	CS_OFFL_SIR_NOPM_2_20220121T045425_20220121T045644_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
00.011_0100_01_01000_01_0000_01000_01000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_010000_0000_0000_0000_0000_0000_0000_0000_0000	CS_OFFL_SIR_NOPM_2_20220121T045810_20220121T052506_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
<ul> <li>C2: 0FH, SIR, NOPM 2, 2020121100000, 020121100000, 02011</li> <li>C2: 0FH, SIR, NOPM 2, 2020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 02012110004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 020121100004, 02000010100000000000000000000000000000</li></ul>	CS_OFFL_SIR_NOPM_2_20220121T053140_20220121T053731_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Cite_DHL_SR_NOPL_2_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_0220121100030F_02201221100030F_0220121100030F_0220121100030F_0220121100030F	CS_OFFL_SIR_NOPM_2_20220121T053908_20220121T060003_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
C2: OFTL SRI, NOPM 2, 20221121196198, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196196, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 202201211196596, 20	CS_OFFL_SIR_NOPM_2_20220121T060028_20220121T060549_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CB_OFFL_SR_NOPK_2_20220121107064_C001         and Backasath Cuality, COOG         and Cookasath Cuality, COOG           CB_OFFL_SR_NOPK_2_20220121107067_20220121107065_C001         COOCA Mineter Range and Backasath Cuality Flags New bein Science Works           CB_OFFL_SR_NOPK_2_20220121107067_20220121107064_C001         COOCA Mineter Range and Backasath Cuality Flags New bein Science Works           CB_OFFL_SR_NOPK_2_20220121107064_C001         COOCA Mineter Range and Backasath Cuality Flags New bein Science Works           CB_OFFL_SR_NOPK_2_20220121107064_C001         Coexa Mineter Range SSIA SWI         The Ooca Mineter Range and Backasath Cuality Flags New bein Science Works           CB_OFFL_SR_NOPK_2_202201211072555_C0001         Coexa Mineter Range SSIA SWI         The Ooca Mineter Range and Backasath Cuality Flags New bein Amineter Range SSIA SWI and Backasath Cuality Flags New bein Amineter Range SSIA SWI and Backasath Cuality Flags New bein Amineter Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range SSIA SWI and Backasath Cuality Flags New bein Range	CS_OFFL_SIR_NOPM_2_20220121T061634_20220121T061724_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
Backscatter Quality Des Generge State Qualit	CS_OFFL_SIR_NOPM_2_20220121T062959_20220121T070454_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CBDFFL_SIR_NOPM_2_202201211072365_00201     and Backatter Quality. COCIG     and the COCIG Alimeter Range and Backatter Quality Flags have bee for core range received.       CBDFFL_SIR_NOPM_2_202201211072355_00201     Qnean Alimeter Range and Backatter Quality Flags have bee for core range received.       CBDFFL_SIR_NOPM_2_202201211072357_00201211072557_0001     Qnean Alimeter Range and Backatter Quality Flags have bee for core range received.       CBDFFL_SIR_NOPM_2_202201211072572_00201211072557_0001     Qnean Alimeter Range and Backatter Quality Flags have bee for core range received.       CBDFFL_SIR_NOPM_2_20220121108100_20220121108150_0001     Qnean Alimeter Range Alimeter Calage Alimeter Range and Backatter Quality Flags have bee for core range received.       CBDFFL_SIR_NOPM_2_20220121108100_20220121108150_0001     Qnean Alimeter Range Alimeter Rang	CS_OFFL_SIR_NOPM_2_20220121T071047_20220121T071603_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
C4_OFFL_SIR_NOPM_2_20220121107245_02201211072550_C001 and Backstatter Cuality, C000 and Backstat	CS_OFFL_SIR_NOPM_2_20220121T071801_20220121T072045_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CB_OFFL_SIR_NOPM_2_202201211075327_20201       And Backstatter Cuality, DCGO       and the CCGO Attimeter Range and Backstatter Cuality Flags have being for the corner records.         CB_OFFL_SIR_NOPM_2_202201211081003_20220121108160_C001       Corean Attimeter Range, SSHA, SWH and Backstatter Cuality Flags have being and backstatter Cuality Flags have being at the CCGO Attimeter Range, SSHA, SWH and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range and Backstatter Cuality Flags have been at the CCGO Attimeter Range SHA, SWH and Backstatter Cuality Flags have been at the CCGO Atti	CS_OFFL_SIR_NOPM_2_20220121T072245_20220121T072530_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T081033_20220121T081850_C001       and Backscatter Quality Flags have bein Allmeter Range Allmeter Range and Backscatter Quality Flags have bein Allmeter Range Allmeter Range Allmeter Range Allmeter Range and Backscatter Quality Flags have bein Allmeter Range	CS_OFFL_SIR_NOPM_2_20220121T075327_20220121T075557_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T08136_20220121T084389_C001       and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Backscatter Quality, COCG       the COCG Altimeter Range and Backscatter Quality Flags have been a for one or more records.         CS_OFFL_SIR_NOPM_2_20220121T08507_1_20220121T09504_C001       Ocean Altimeter Range, SHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags and the COCG Altimeter Range, SHA, SWH and Backscatter Quality, Flags have been and Backscatter Quality, COCG	CS_OFFL_SIR_NOPM_2_20220121T081003_20220121T081850_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121108309_0220121109309_02001         Backscatter Quality         for one or more records           CS_OFFL_SIR_NOPM_2_202201211085711_202201211091011_C001         Doean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have bee Altimeter Range and Backscatter Quality, COCG         The OCean Altimeter Range and Backscatter Quality, Flags have bee Altimeter Range and Backscatter Quality, COCG           CS_OFFL_SIR_NOPM_2_202201211091159_202201211091916_C001         Doean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have bee Altimeter Range and Backscatter Quality, COCG         The OCean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have bee Altimeter Range and Backscatter Quality, COCG           CS_OFFL_SIR_NOPM_2_202201211091959_202201211092432_C001         Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have bee Altimeter Range and Backscatter Quality, COCG           CS_OFFL_SIR_NOPM_2_20220121109202_202201211102251_C001         Ocean Altimeter Range and Backscatter Quality, Flags have bee Altimeter Range and Backscatter Quality, COCG           CS_OFFL_SIR_NOPM_2_202201211102428_202201211102249_C001         OCCG Altimeter Range ASHA, SWH and Backscatter Quality, Flags have been a for one or more records           CS_OFFL_SIR_NOPM_2_202201211102428_202201211102320_C001         OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been a for one or more records           CS_OFFL_SIR_NOPM_2_202201211102428_202201211110230_C001         OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been a for one or more records           CS_OFFL_SIR_NOPM_2_202201211102428_202201211110220_C001	CS_OFFL_SIR_NOPM_2_20220121T082136_20220121T084339_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T095711_20220121T091011_C001       and Backscatter Quality, OCCG Allmeter Range and Backscatter Quality Flags have bea Allmeter Range and Backscatter Quality       and the OCCG Allmeter Range, SSHA, SWH and Backscatter Quality, OCCG Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flags have bea Allmeter Range, SSHA, SWH and Backscatter Quality, Flag	CS_OFFL_SIR_NOPM_2_20220121T085057_20220121T085504_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T091159_20220121T091916_C001       And Backscatter Quality       and the OCOG Attimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20220121T091959_20220121T092432_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality       Ine Ocean Attimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20220121T091959_20220121T1092432_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality       Ine Ocean Attimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20220121T109502_20220121T102251_C001       Cean Attimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality       Fage and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20220121T102428_20220121T102949_C001       OCC0G Attimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality       Fage and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T105320_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality       Fage and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T1105320_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Attimeter Range and Backscatter Quality       Fage and Backscatter Quality       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality<	CS_OFFL_SIR_NOPM_2_20220121T085711_20220121T091011_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T091959_20220121T092432_C001       and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T09202_20220121T102251_C001       Ocean Altimeter Range and Backscatter Quality       The OCogan Altimeter Range, SSHA, SWH and Backscatter Quality       and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been s         CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T105320_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The OCogan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been s         CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T1005320_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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been s         CS_OFFL_SIR_NOPM_2_20220121T113204_20220121T114010_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been s         CS_OFFL_SIR_NOPM_2_20220121T114614_20220121T1120201_C001       Ocean Altimeter Range	CS_OFFL_SIR_NOPM_2_20220121T091159_20220121T091916_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T09500_20220121T102251_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been as to rone or more records         CS_OFFL_SIR_NOPM_2_20220121T102428_20220121T102949_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records         CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T105320_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quali	CS_OFFL_SIR_NOPM_2_20220121T091959_20220121T092432_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T10248_20220121T10249_0001       Backscatter Quality       for one or more records         CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T105320_C001       Dcean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20220121T105327_20220121T111100_C001       Ocean Altimeter Range, SSHA, SWH 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_20220121T113204_20220121T114410_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       The 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, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have beea set for one or more records </td <td>CS_OFFL_SIR_NOPM_2_20220121T095020_20220121T102251_C001</td> <td>and Backscatter Quality, OCOG</td> <td>The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records</td>	CS_OFFL_SIR_NOPM_2_20220121T095020_20220121T102251_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T105320_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality Flags have bee set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T105327_20220121T11100_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have bee Altimeter Range and Backscatter Quality Flags have bee Altimeter Range and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have bee and the OCOG Altimeter Range and Backscatter Quality Flags have bee aftimeter Range and Backscatter Quality Flags have bee and the OCOG Altimeter Range and Backscatter Quality Flags have bee and the OCOG Altimeter Range and Backscatter Quality Flags have bee set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T120347_20220121T120847_C001       Ocean Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been s for one or more records         CS_OFFL_SIR_NOPM_2_20220121T120847_20220121T122828_C001       O	CS_OFFL_SIR_NOPM_2_20220121T102428_20220121T102949_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T105327_20220121T11100_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_20220121T113204_20220121T114410_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T114614_20220121T1120201_C001       Ocean Altimeter Range, SSHA, SWH 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_20220121T114614_20220121T120201_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T120347_20220121T120847_C001       OCOG Altimeter Range Quality, OCOG 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_20220121T120847_20021       OCOG Altimeter Range Quality, OCOG 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_20220121T120847_20021       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T1	CS_OFFL_SIR_NOPM_2_20220121T104051_20220121T105320_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T113204_20220121T114410_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_20220121T114614_20220121T120201_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T114614_20220121T120201_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T120347_20220121T120847_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T120847_2001       OCOG Altimeter Range, Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T120847_2001       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T121804_20220121T122828_C001       Ocean Altimeter Range, SSHA, SWH       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20220121T105327_20220121T111100_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T114614_20220121T120201_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_20220121T120347_20220121T120847_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T120347_20220121T120847_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20220121T121804_20220121T122828_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20220121T113204_20220121T114410_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_202201211120347_202201211120847_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_NOPM_2_20220121T121804_20220121T122828_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG 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	CS_OFFL_SIR_NOPM_2_20220121T114614_20220121T120201_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20220121T121804_20220121T122828_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have bee	CS_OFFL_SIR_NOPM_2_20220121T120347_20220121T120847_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_NOPM_2_20220121T121804_20220121T122828_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_NOPM_2_20220121T132151_20220121T132242_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CS_OFFL_SIR_NOPM_2_20220121T132613_20220121T134046_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
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	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_20220121T135429_20220121T142821_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_20220121T145613_20220121T151731_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_20220121T151750_20220121T152049_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
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS OFFE SIR NOPM 2 202201211152739 202201211153107 CO01	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_20220121T153332_20220121T160209_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_20220121T163426_20220121T165949_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
	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	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_20220121T171400_20220121T174753_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_20220121T180037_20220121T180111_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_20220121T181324_20220121T182023_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_20220121T183319_20220121T183926_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
	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_20220121T185306_20220121T192620_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_20220121T195934_20220121T201845_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
	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_20220121T203138_20220121T210558_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_20220121T213037_20220121T213457_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_20220121T213554_20220121T215332_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_20220121T221210_20220121T222733_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_20220121T223406_20220121T224112_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20220121T230108_20220121T231856_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_20220121T232021_20220121T233417_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_20220121T234215_20220121T234416_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_20220121T234523_20220121T234918_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_20220121T235102_20220122T000635_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_20220121T002642_20220121T003026_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_20220121T052746_20220121T053140_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_20220121T073444_20220121T073509_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_20220121T093437_20220121T093641_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_20220121T145214_20220121T145537_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_20220121T192714_20220121T192724_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_20220121T045644_20220121T045809_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_20220121T060003_20220121T060028_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_20220121T112949_20220121T112955_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_20220121T174941_20220121T175011_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_20220121T181103_20220121T181151_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_20220121T222733_20220121T222852_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_20220121T230037_20220121T230108_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

### L2 Quality Flags (20 Hz PLRM)

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

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

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

69

Number of products with errors:

Product	Test Failed	Description
	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_20220121T002642_20220121T003026_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
	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_20220121T021859_20220121T022107_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_20220121T052746_20220121T053140_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_20220121T053731_20220121T053857_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_20220121T061328_20220121T061451_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_20220121T062702_20220121T062800_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_20220121T070734_20220121T071047_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_20220121T071604_20220121T071713_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_20220121T084512_20220121T084927_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_20220121T091916_20220121T091959_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_20220121T093253_20220121T093340_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_20220121T093437_20220121T093641_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_20220121T111644_20220121T111737_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_20220121T113123_20220121T113204_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_20220121T125055_20220121T125350_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_20220121T125440_20220121T125652_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_20220121T134100_20220121T134302_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_20220121T134948_20220121T135422_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_20220121T143124_20220121T143516_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_20220121T145214_20220121T145537_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_20220121T153107_20220121T153251_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_20220121T170000_20220121T170130_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_20220121T171007_20220121T171143_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_20220121T174753_20220121T174926_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_20220121T182023_20220121T182357_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_20220121T192714_20220121T192724_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_20220121T194615_20220121T194637_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_20220121T195802_20220121T195934_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_20220121T201932_20220121T202052_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_20220121T202601_20220121T202912_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_20220121T220505_20220121T221036_C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
	OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH	more records
CS_OFFL_SIR_NOPN_2_20220121T225555_20220121T230037_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20220121T233939_20220121T234215_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_20220121T000647_20220121T001055_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_20220121T005629_20220121T005808_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_20220121T013136_20220121T013222_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_20220121T024459_20220121T024536_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_20220121T052506_20220121T052746_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_20220121T060003_20220121T060028_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_20220121T061451_20220121T061530_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_20220121T070455_20220121T070734_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_20220121T074624_20220121T074822_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_20220121T075031_20220121T075208_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_20220121T075557_20220121T081003_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_20220121T093841_20220121T094630_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_20220121T094730_20220121T095020_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_20220121T111737_20220121T112318_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_20220121T112756_20220121T112822_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_20220121T112833_20220121T112946_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_20220121T121310_20220121T121804_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_20220121T124650_20220121T124755_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_20220121T124935_20220121T125054_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_20220121T125653_20220121T130342_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_20220121T131726_20220121T132151_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_20220121T143517_20220121T144033_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_20220121T161320_20220121T162331_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_20220121T175114_20220121T175848_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_20220121T175914_20220121T180037_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_20220121T181103_20220121T181151_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_20220121T192724_20220121T192852_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_20220121T194235_20220121T194543_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_20220121T215333_20220121T220025_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_20220121T224112_20220121T224605_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_20220121T224838_20220121T224958_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_20220121T225028_20220121T225404_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_20220121T225404_20220121T225555_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_20220121T233418_20220121T233938_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 & 1 Hz PLRM)

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

176

53

129

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

Number of products with errors:

### 5.7 L2 Ocean Retracking Quality Check

### L2 Retracking Flags (20 Hz)

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

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

Number of products with errors:

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

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

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

Number of products with errors:

### 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	171	171	4	167	0
SIR_NOPR1B	114	114	0	114	0
SIR_NOPN1B	95	95	5	90	0
SIR_NOPM_2	171	171	119	52	0
SIR_NOPR_2	114	114	41	68	5
SIR_NOPN_2	95	95	38	57	0

#### 7.1 QCC Errors

### Number of QCC reports with errors:

	Total number of occurrences of each error										
Product Type RLO	BOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_NOPR_2	5	5	5	5							
<b>Test Description Ke</b>	Test Description Key:										
Abbreviation	Test na	me		Details							
RLOBOPNCDF	RangeLat	titudeOrBlankOP_	7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF							
RL	RangeLat	titude_7		Latitude should be between -90E7 and 90E7							
RLOBOPNCDF	RangeLo	ngitudeOrBlankOF	_7NetCDF	Longitude should be between -180E7 and 180E7 - NetCDF							

### 7.2 QCC Warnings

8

#### Total number of occurrences of each warning

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR_NOPM1B	167	0	0	0	0	0	0
SIR_NOPM_2	0	0	38	41	1	40	0
SIR_NOPN1B	90	0	0	0	0	0	0
SIR_NOPN_2	0	0	10	26	7	23	23
SIR_NOPR1B	111	0	0	0	0	0	0
SIR_NOPR_2	0	5	29	42	0	23	20
			T	-	n	i	r
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	35	0	32	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	17	2	0	0	15	0	28
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	12	4	0	42	0	47	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	29	0	0	9	29	0	6
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	20	17	37	45	30
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	41	0	5	52	29	15
							1
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	34	0	2	0	0	0	
SIR_NOPN1B	0	0	0	0	39	0	
SIR_NOPN_2	25	23	9	0	0	0	
SIR_NOPR1B	0	0	0	0	114	18	
SIR NOPR 2	25	38	3	0	0	0	1

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