

QA4EO Daily Report for NOP data:

<u>03/12/2022</u>

IDEAS-QA4E0

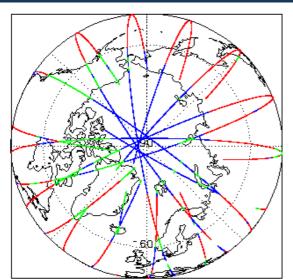
Panart Draduation	05-Dec-2022	Check	L1 & L2
Report Production:	05-Dec-2022	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	Crue Cat Occar Dresses	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Usadi	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Used:	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
We would	love to hear from you!	Auxiliary Correction Error Check	See Section 5.4
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
cs2_qc_	team@telespazio.com	QCC Error/ Warning Check	See Section 7.1 and 7.2

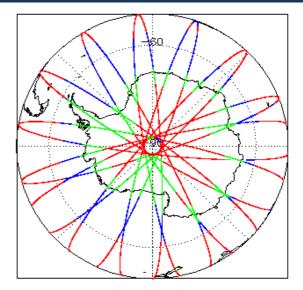
1. Overview

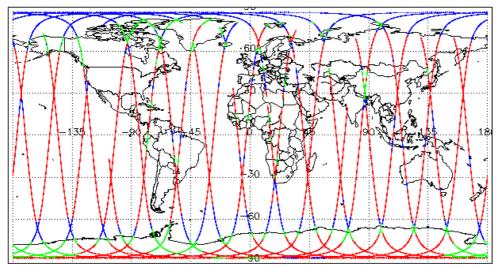
03-Dec-2022 None

04-Dec-2022 Nothing planned

2. Global Coverage







Mode Coverage		
	LRM	
	SAR	
	SARIn	

3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis				
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For all products, a series of pre-defined checks are performed on the MPH and	3 SPH in order to identify any incor	nsistencies and/or errors raised by the ground-segment processing chain.		
> L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the 11b_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 pre-	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	e 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 record	d. The bit value of this flag indicate	es any problems when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
	nont second The later to a state of			
CryoSat L1B data includes a measurement confidence flag for each measurem	nent record. The bit value of this fla	ag indicates any problems when set.		
> Attitude Correction Missing: This flag is currently set in error for NOPR proupdated in the next SW update.	oducts due to a configuration issue	e. The attitude correction is not actually missing, This is being investigated and will be		
Number of products with errors: 1				
Product	Test Failed	Description		
CS_OFFL_SIR_NOPM1B_20221203T142001_20221203T142029_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records		
4.6 L1B Waveform Group Data Check				
·	The bit color of this flow indicate			
CryoSat L1B data includes a waveform data flag for each measurement record	-	is any problems when set.		
> Loss of Echo Flag: This flag is currently set for occasional products over la	nd, but this is to be expected.			
Number of products with errors: 17				
Product	Test Failed	Description		
CS_OFFL_SIR_NOPM1B_20221203T013448_20221203T014143_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPM1B_20221203T021820_20221203T025039_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPM1B_20221203T042043_20221203T043051_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPM1B_20221203T054901_20221203T060958_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPM1B_20221203T173207_20221203T173650_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPM1B_20221203T220802_20221203T223042_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221203T010850_20221203T011445_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221203T031241_20221203T031448_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221203T111716_20221203T112205_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221203T160428_20221203T160555_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR NOPN1B 20221203T210302 20221203T210601 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221203T210659_20221203T210912_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPR1B_20221203T033733_20221203T034300_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPR1B_20221203T045157_20221203T045321_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR NOPR1B 20221203T051847 20221203T052243 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPR1B_20221203T133548_20221203T134002_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPR1B_20221203T160952_20221203T161902_C001	Loss of Echo	The tracking echo is missing for one or more records		
	OP Level 2 Data Qua	blity Check		
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to e	ensure it consists of both an XML I	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 incor	nsistencies and/or errors raised by the ground-segment processing chain.		
Number of products with errors: 0				
5.3 L2 Auxiliary Data File Usage Check				

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).

0

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

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

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

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

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

Number of products with errors:

Sci OFL_SELVOFL_SELVOFL Second Class Table (ROT) Tell Research Class Table (ROT) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (II) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) The is a near with the Mach Dynamic Topography (III) Sci OFL_SELVOFL_SELVOFL Mach Dynamic Topography (III) Mach Dynamic To	Product	Test Failed	Description
 Bergeler, Jergeler, Jer	CS_OFFL_SIR_NOPM_2_20221203T204705_20221203T210302_C001		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
Control Control <t< td=""><td>CS_OFFL_SIR_NOPN_2_20221203T003350_20221203T003506_C001</td><td>Mean Dynamic Topography (1)</td><td>There is an error with the Mean Dynamic Topography height for one or more records</td></t<>	CS_OFFL_SIR_NOPN_2_20221203T003350_20221203T003506_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Control bit North 2 additional international control Rest Dynamic Tapegraphy Incomercials Control bit North 2 additional international control internate contreconte control international control international contro	CS_OFFL_SIR_NOPN_2_20221203T021257_20221203T021413_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
City Strike Involve 2 address (SUBJECK) (SUBJECK) (SUBJECK) (SUBJECK) Permit Dynamic Lapoparty (1) Inver words CS, GPR_SIR_NOP4_2_0021000T00446_0021000T00446_0021000T01000T01 Main See Strates (1), Main Dynamic The is a new with the MSS heavy (SUBJECK) (SUBJECK) (SUBJECK) (SUBJECK) CS, GPR_SIR_NOP4_2_0021000T00256_00221000T00256_00221000T00256_00221000T00256_00201000T00256_002010000001 Main See Strates (1), Main Dynamic The is a new with the MSS heavy (SUBJECK) (SUB	CS_OFFL_SIR_NOPN_2_20221203T031241_20221203T031448_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CSUMPLIANUME_CADD2103100006_D0201010006_D020100006_D02010 Trapsprayhy (1) Trapsprayhy (10) Trapsprayhy (10) CSLOPEL_SR_NOPK_2_0222328T000046_0021032100244_00210 Man Sie Striften (1), Man Dynami, Trapsprayhy (10) Trans and striften (1), Man Dynami, Trapsprayhy (10) Trans a second with the MSS height (solution 1) or or man monds. GS_OFFL_SR_NOPK_2_2022120371102040_02210371102040	CS_OFFL_SIR_NOPN_2_20221203T034300_20221203T034426_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Call Diff. Self, NOPK 2, 20211031100268, 20211031100268, 2021 Call Diff. Self, NOPK 2, 20211031100268, 202110311100268, 202110311100268, 202110311100268, 202110311100268, 202110311100268, 202110311100268, 202110311100268, 202110311100268, 202110311100268, 202110311100268, 2021103111100268, 202110311100268, 2021103111100268, 2021103111100268, 20211031110006, 20211031110006, 20211031110006, 20211031110006, 20211031110006, 20211031110006, 20211031110006, 20211031110006, 20211031110006, 20211031110006, 20011, 20211031110006, 20011, 20211031110006, 20011, 20211031110006, 20011, 20211031110006, 20011, 20211031110006, 20011, 20211031110006, 20011, 20211031110006, 20011, 202110001, 2021100011, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 202110001, 2	CS_OFFL_SIR_NOPN_2_20221203T034948_20221203T035256_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Sc. DFTL_SRI_NOPL_2_00211001100000_0001 Trapsgraphy (1) Trapsgraphy (1) Trapsgraphy (1) SG. OFFL_SRI_NOPL_2_0021001170503_00221031707050_0001 Mars 556 Surfact (1), Mars Dynamic Trapsgraphy (1) Trapsgrap	CS_OFFL_SIR_NOPN_2_20221203T052244_20221203T052449_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Concerning Topography (1) Topography (1) Topography (1) Topography (1) CS_OFFL_SIR_NOPN_2_0021203T07564_0222103T075655_001 Mean Ses Surface (1), Mean Dynamic Topography (1) There is a error with the MSS height (couldon 1) and the Main Dynamic CS_OFFL_SIR_NOPN_2_0021203T068685_0021005769404_0001 Mean Ses Surface (1), Mean Dynamic There is a error with the MSS height (couldon 1) and the Main Dynamic CS_OFFL_SIR_NOPN_2_0021203T068685_0021005769404_0001 Mean Ses Surface (1), Mean Dynamic There is a error with the MSS height (couldon 1) and the Main Dynamic Topography Height (couldon 1) and the Main Dyna	CS_OFFL_SIR_NOPN_2_20221203T052848_20221203T053219_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_DFFL_SR_NOPL_2_0021031075864_022100170585_0201 Topography (1) Trail Genomic Deam Topography headt (coldon 1: GOT) for one in more records CS_DFFL_SR_NOPL_2_00210030585_0202100106385_0202100106406_0001 Means Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) CS_DFFL_SR_NOPL_2_00210030586_002010 Means Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography headt (coldon 1) for one in more records CS_DFFL_SR_NOPL_2_00210030586_0021005100400_0001 Means Dynamic Topography (1) There is an error with the Mean Dynamic Topography headt (coldon 1) for one in more records CS_DFFL_SR_NOPL_2_00211001104_0001_0001 Means Dynamic Topography (1) There is an error with the Mean Dynamic Topography headt (coldon 1) for one or more records CS_DFFL_SR_NOPL_2_00211001110206_0001 Means Dynamic Topography (1) There is an error with the Mean Dynamic Topography headt (coldon 1) for one or more records CS_DFFL_SR_NOPL_2_0021001111176_00221001110206_0001 Means Des Sandtroit (1) Mean Dynamic Topography headt (coldon 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean Dynamic Topography (1) CS_DFFL_SR_NOPL_2_0021001116176_2_0221001116206_0011 Means Des Sandtroit (1) Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean Dynamic Topography (1) CS_DFFL_SR_NOPL_2_0021001116176_2_0221001116206_00011 Means Des Sandtroit (1) Me	CS_OFFL_SIR_NOPN_2_20221203T070326_20221203T070601_C001	Topography (1)	
USE_DFL_SH_NOPN_2_20221203T103256_20221203T093400_0001 Topography (n) Topography (n) Topography (n) CS_OFFL_SIR_NOPN_2_20221203T093862_20221203T093400_0001 Mean Dynamic Topography (n) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (n) CS_OFFL_SIR_NOPN_2_20221203T102264_20221203T10226_0001 Mean Sea Surface (n), Mean Dynamic Topography (n) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (n) CS_OFFL_SIR_NOPN_2_20221203T111716_20221203T110226_0001 Mean Sea Surface (n), Mean Dynamic Topography (n) There is an error with the MSS height (solution 1) the mean on one records CS_OFFL_SIR_NOPN_2_20221203T111716_0021203T110226_0001 Mean Sea Surface (n), Mean Dynamic Topography (n) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (n) CS_OFFL_SIR_NOPN_2_20221203T115160_0021103T152805_0001 Mean Sea Surface (n), Mean Dynamic Topography (n) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (n) CS_OFFL_SIR_NOPN_2_20221203T167845_0001 Mean Sea Surface (n), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (n) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (n) CS_OFFL_SIR_NOPN_2_20221203T167845_0001 Mean Sea Surface (n), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography hei	CS_OFFL_SIR_NOPN_2_20221203T075834_20221203T075955_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
Sec. OFFL_SIR_NOPN_2_20221203T1030562.0221203T094014_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (1) Topography height (solution 1) and the Mean Dynamic Topography (solution 1) and the Mass Degitt (solution 1) and the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records Tero File, INOPN 2, 20221203T151553, 20221203T155205, C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records CS, OFFL_SIR_NOPN 2, 20221203T15553, 20221203T170151. C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dyn Topography height (solut	CS_OFFL_SIR_NOPN_2_20221203T083855_20221203T084449_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Cold, DFL_SIR_NOPN_2_20221203T102056_20221203T102258_C001 Topography (1) Topography height (cultion 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T112055_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T112055_C001 Mean Sea Surface (1), Mean Dynamic Topography height (cultion 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T134130_20221203T134357_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (cultion 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T134130_20221203T134357_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (colution 1), the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T134130_20221203T134357_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (colution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T170151_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (cultion 1) for one or more records There is an error with the MSS height (cultion 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T170752_20221203T170545_C001 Topography Height (Cultion 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T124557_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (cultion 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T126501_20221203T126557_C001 Mean Sea Surface (1), Mean Dynamic Topo	CS_OFFL_SIR_NOPN_2_20221203T093258_20221203T093400_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_20221203T117054_20221203T12056_2001 CS_OFFL_SIR_NOPN_2_20221203T12656_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T1265742_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T1265742_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T1265742_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T1265742_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T1265742_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T1265742_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T1265742_20221203T1265742_20221203T12656_2001 CS_OFFL_SIR_NOPN_2_20221203T126574_20221203T126574_20221203T126574_20221203T22656_2001 CS_OFFL_SIR_NOPN_2_20221203T22656_2001 CS_OFFL_SIR_NOPN_2_20221203T22656_2001 CS_OFFL_SIR_NOPN_2_20221203T210572_205720572_20	CS_OFFL_SIR_NOPN_2_20221203T093802_20221203T094014_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OPPL_SIR_NOPN_2_20221203T134130_20221203T134357_C001 Topography (1) Topography (1) CS_OPPL_SIR_NOPN_2_20221203T134130_20221203T134357_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) Topography (1) Topography (2)	CS_OFFL_SIR_NOPN_2_20221203T102054_20221203T102238_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_20221203T134130_20221203T134357_C001 Topography (1). Total Geocentric Coean Tide CS_OFFL_SIR_NOPN_2_20221203T151353_20221203T152305_C001 Maan Saa Surface (1). Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records CS_OFFL_SIR_NOPN_2_20221203T151353_20221203T152305_C001 Mean Saa Surface (1). Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T157252_20221203T170151_C001 Mean Saa Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T170722_20221203T170448_C001 Mean Saa Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography 1) CS_OFFL_SIR_NOPN_2_20221203T170742_20221203T1748456_C001 Total Geocentric Coean Tide (GOT) CS_OFFL_SIR_NOPN_2_20221203T174744_20221203T1748456_C001 Total Geocentric Coean Tide (GOT) CS_OFFL_SIR_NOPN_2_20221203T164518_20221203T164701_C001 Mean Saa Surface (1). Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T162519_C001 Mean Saa Surface (1). Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T162502_20221203T192957_C001 Mean Saa Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T210502_20221203T210601_C001 Mean Sas Surface (1). Mean Dynamic Topography height (solution 1) and th	CS_OFFL_SIR_NOPN_2_20221203T111716_20221203T112205_C001	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_20221203T165742_20221203T17015_C001 Topography (1) Topography (1) CS_OFFL_SIR_NOPN_2_20221203T165742_20221203T170151_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T170722_20221203T170548_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records 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_20221203T174556_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184701_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dyn Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T2102526_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), and the Mean Dyn Topography height (solution 1) and the Mean Dyn Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210512_C001 Mean Sea Surface (1), Mean Dynamic Topography (1)	CS_OFFL_SIR_NOPN_2_20221203T134130_20221203T134357_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	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_202212031166/42_202212031170151_C001 Topography (1) Topography (2) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T170722_20221203T170724_20221203T170648_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records 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_20221203T174734_20221203T174856_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T194701_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T202310_20221203T202526_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210601_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210601_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210912_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_202	CS_OFFL_SIR_NOPN_2_20221203T151953_20221203T152305_C001		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_20221203T174734_20221203T174856_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T174734_20221203T174856_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T192957_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T1020221203T0202526_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T20320_20221203T202526_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210601_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), the Mean Dynamic Topography L2_20221203T2103T210659_20221203T210912_C001 There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), and the Mean Dynamic Topography L2_20221203T210552_20221203T210912_C001 There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1), and the Mean Dynamic Topography height (solution 1), and the Mean Dynamic T	CS_OFFL_SIR_NOPN_2_20221203T165742_20221203T170151_C001		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_20221203T184518_20221203T184501_C001 Intel Geodentine Ocean Hole (GO1) GOT) for one or more records CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184501_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T182901_20221203T192957_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T202310_20221203T202526_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total	CS_OFFL_SIR_NOPN_2_20221203T170722_20221203T170848_C001		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_20221203T184518_20221203T184518_20221203T192957_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dyn Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T202310_20221203T202526_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dyn Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210601_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide for one or more records There is an error with the Mean Dynamic Topography (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPN_2_20221203T210559_20221203T210912_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Tide (GOT) CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T220205_20221203T220649_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_202212	CS_OFFL_SIR_NOPN_2_20221203T174734_20221203T174856_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_20221203T19290T_20221203T192957_C001 Topography (1) Topography (1) CS_OFFL_SIR_NOPN_2_20221203T202310_20221203T202526_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dyn Topography (1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210601_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (SOL), Total Geocentric Ocean Tide (SOL), Non- Equilibrium Long Period Ocean Tide (SOL), Non- Equilibrium Long Period Ocean Tide (SOL) for one or more records CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_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 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPN_2_20221203T21552_20221203T215517_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T22052_20221203T220649_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic 	CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184701_C001		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_20221203T210302_20221203T210601_C001 Topography (1) Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide for one or more records CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1); the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T220205_20221203T220649_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001		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_20221203T210302_20221203T210601_C001 Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT) Intere is an error with the Mean Dynamic TopOgraphy (solution 1; the Equilibrium Long Period Ocean Tide (solution 1; eDT) and the Mean Dynamic TopOgraphy (1) CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001 Mean Sea Surface (1), Mean Dynamic TopOgraphy (1) There is an error with the Mean Dynamic TopOgraphy height (solution 1), the Mean Dynamic TopOgraphy height (solution 1) and the Mean Dynamic TopOgraphy (1) CS_OFFL_SIR_NOPN_2_20221203T220205_20221203T220649_C001 Mean Sea Surface (1), Mean Dynamic TopOgraphy height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 Mean Sea Surface (1), Mean Dynamic TopOgraphy height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 Mean Sea Surface (1), Mean Dynamic TopOgraphy height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 Mean Sea Surface (1), Mean Dynamic TopOgraphy height (solution 1) for one or more records	CS_OFFL_SIR_NOPN_2_20221203T202310_20221203T202526_C001	Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Sea Surface (1), Mean Dynamic Topography (1), 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 (GOT) CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T2103T220205_20221203T220649_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) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221203T2203T2203T2203T220649_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)	CS_OFFL_SIR_NOPN_2_20221203T210302_20221203T210601_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	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_202212031215326_20221203122372_0649_C001 Integration of the set of	CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean	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_202212031224342_202212031224737_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1) Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPN_2_20221203T220205_20221203T220649_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Mean Sea Surface (1) Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dyn	CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001		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_20221203T234320_20221203T234510_C001 Topography (1) Topography height (solution 1) for one or more records	CS_OFFL_SIR_NOPN_2_20221203T234320_20221203T234510_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_20221203T011445_20221203T012227_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_20221203T093400_20221203T093436_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_20221203T093436_20221203T093802_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_20221203T125221_20221203T125742_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_20221203T142030_20221203T142229_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_20221203T143128_20221203T143924_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_20221203T160953_20221203T161902_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_20221203T175100_20221203T175436_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_20221203T175436_20221203T175830_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_20221203T192957_20221203T193539_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_20221203T193553_20221203T193708_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_20221203T195647_20221203T195731_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_20221203T210913_20221203T211250_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_20221203T211250_20221203T211602_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_20221203T224125_20221203T224306_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_NOPR_2_20221203T224737_20221203T225256_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

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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: 1

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20221203T142001_20221203T142029_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20221202T235707_20221203T002147_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_20221203T002500_20221203T003006_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_20221203T003025_20221203T003350_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_20221203T003748_20221203T010424_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_20221203T010549_20221203T010850_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_20221203T014145_20221203T020056_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_20221203T020443_20221203T020921_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_20221203T021820_20221203T025039_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_20221203T030316_20221203T030549_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_20221203T033443_20221203T033733_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_20221203T035642_20221203T041757_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_20221203T042042_20221203T043051_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_20221203T044204_20221203T044606_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_20221203T050202_20221203T050649_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_20221203T050837_20221203T051847_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_20221203T052449_20221203T052848_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_20221203T053554_20221203T054054_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_20221203T054104_20221203T054636_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_20221203T054901_20221203T060958_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_20221203T062559_20221203T063159_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_20221203T063308_20221203T065627_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_20221203T070601_20221203T070755_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_20221203T071527_20221203T072124_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20221203T072144_20221203T073217_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20221203T073658_20221203T074400_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20221203T075955_20221203T080332_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_20221203T080525_20221203T081116_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20221203T081243_20221203T082059_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_20221203T082718_20221203T083847_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_20221203T084743_20221203T085205_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_20221203T085422_20221203T090052_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_20221203T090205_20221203T090847_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_20221203T091154_20221203T092445_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_20221203T095200_20221203T095427_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_20221203T095550_20221203T100019_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_20221203T100351_20221203T101905_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_20221203T102238_20221203T103115_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_20221203T103417_20221203T105616_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_20221203T113348_20221203T115752_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_20221203T120439_20221203T120915_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_20221203T121400_20221203T121644_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_20221203T121741_20221203T123916_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_20221203T131102_20221203T133548_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_20221203T134358_20221203T134951_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_20221203T135312_20221203T141903_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_20221203T144224_20221203T151547_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_20221203T152306_20221203T152823_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_20221203T153502_20221203T153700_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_20221203T160555_20221203T160952_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_20221203T162119_20221203T163107_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_20221203T163353_20221203T165515_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_20221203T170316_20221203T170722_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_20221203T171250_20221203T172228_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_20221203T172416_20221203T173031_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_20221203T173206_20221203T173650_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_20221203T175934_20221203T183400_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_20221203T183654_20221203T184207_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_20221203T184227_20221203T184518_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_20221203T185308_20221203T192338_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_20221203T193708_20221203T193815_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_20221203T194022_20221203T194158_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_20221203T194319_20221203T195643_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_20221203T195830_20221203T201346_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_20221203T201602_20221203T202106_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_20221203T202113_20221203T202120_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_20221203T203034_20221203T204045_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_20221203T204705_20221203T210302_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_20221203T213409_20221203T213652_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_20221203T213832_20221203T215212_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_20221203T215517_20221203T220018_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_20221203T220802_20221203T223042_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_20221203T223056_20221203T224124_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_20221203T230153_20221203T230232_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_20221203T230958_20221203T233053_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_20221203T233602_20221203T233936_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_20221203T233958_20221203T234320_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_20221203T234652_20221204T001454_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_20221203T033159_20221203T033203_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_20221203T052848_20221203T053219_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_20221203T093802_20221203T094014_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_20221203T094556_20221203T094718_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_20221203T230418_20221203T230753_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_20221203T002147_20221203T002344_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_20221203T081116_20221203T081243_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_20221203T095030_20221203T095200_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_20221203T125016_20221203T125200_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_20221203T151548_20221203T151953_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20221203T010850_20221203T011445_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_20221203T012227_20221203T012237_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_20221203T012348_20221203T012427_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_20221203T020319_20221203T020442_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_20221203T021257_20221203T021413_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_20221203T025039_20221203T025209_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_20221203T030612_20221203T030624_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_20221203T032829_20221203T032934_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_20221203T034948_20221203T035256_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_20221203T044606_20221203T044651_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_20221203T045836_20221203T050029_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_20221203T052848_20221203T053219_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_20221203T062004_20221203T062019_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_20221203T070326_20221203T070601_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_20221203T070755_20221203T071057_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_20221203T071225_20221203T071421_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_20221203T074401_20221203T074522_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_20221203T082612_20221203T082718_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_20221203T083855_20221203T084449_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_20221203T085205_20221203T085344_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

In Jones, Jan Juone, 2. 2020 ADDITIONER, 2022 DOI: 1001.0001 Def Excession Calify FLPP, COCO, Provide Calify FLPP,			
G., CHI, JAN, VOM, Z. 2021/2011/2012, 2021/20	CS_OFFL_SIR_NOPN_2_20221203T093258_20221203T093400_C001	Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Elses, Bith North 2. 2021/2021154/202. 2021/2014/54/2010 Description Control Fragment Program Program Program Control Fragment Program Contro Fragment Program Program Program Program Program Program Program	CS_OFFL_SIR_NOPN_2_20221203T093802_20221203T094014_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CH, JAR, KOM, ZAM, ZAMINER, BARK, KULLANDAN, P. (2011) OCCO Backetaser Gality Income model CL, GHL, SIR, NOPUL2, NO210211110001, 20212011110014, 20211 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO210211110001, 2021201111020, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO210211110001, 2021201111020, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021111001, 2021201111020, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021111001, 2021201111020, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021111001, 202120111020, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO2102111001, 2021201110101, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021110110, SIR21201110110, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021110110, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021110110, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021110110, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL, SIR, NOPUL2, NO21021110110, CO11 OCCO Backetaser Gality The OCCO Backetaser Gality CL, GHL,	CS_OFFL_SIR_NOPN_2_20221203T094136_20221203T094402_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Die Unit Lamit, Norm 2, 2002 (2011) 1018 1221 2011) 1021 (2001) COOR Blackster Guity The COOR Blackster Guity The COOR Blackster Guity FIR. CS, OFTL, SIN, NOPK 2, 2022 (2011) 1024,	CS_OFFL_SIR_NOPN_2_20221203T094556_20221203T094718_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Cord Start North 2 and both 2 and both Start Start North 2 and both Start North 2 and	CS_OFFL_SIR_NOPN_2_20221203T105756_20221203T110114_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_DEFL_SIR_NOPH_2_02210071117E_0_02110071128E_0_0011 mod BitIntegend Data PLAN, DOCK CS_DEFL_SIR_NOPH_2_0221007110046_020110046_020110046_0011 COCK BitIntegend Data PLAN, DOCK CS_DEFL_SIR_NOPH_2_0221007110046_020110046_0011 COCK BitIIntegend Data PLAN, DOCK CS_DEFL_SIR_NOPH_2_0221007110416_020110046_0011 COCK BitIIntegend Data PLAN, DOCK CS_DEFL_SIR_NOPH_2_0221007110416_0201100115_0011 COCK BitIIntegend Data PLAN, DOCK CS_DEFL_SIR_NOPH_2_0221007110416_0201100116_0011 COCK BitIIntegend Data PLAN, DOCK CS_DEFL_SIR_NOPH_2_0221007110416_0201100116_0011 COCKA BitIIntegend Data PLAN, DOCKA DATA PLAN,	CS_OFFL_SIR_NOPN_2_20221203T110204_20221203T110323_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Code Deric Sint, North 2, 2021200712015 20221200712134 COD OCCOR Basestate Cally PLAX, COC American Prang, SSHA, SWH and Backstate Cally PLay. Coc American Prang, SSHA, SWH and Backstate Cally PLay. Coc American Prang, SSHA, SWH and Backstate Cally PLay. Coc American Prang, SSHA, SWH and Backstate Cally PLay. Coc Coc Backstate Cally PLAX, COC Backstate	CS_OFFL_SIR_NOPN_2_20221203T111716_20221203T112205_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_OFFL_SIR_NOPN_2_02212031131150_0000 amendmetabalance frage and backscatter Quality Flags. The QCGG Range and Backscatter Quality Flags. The DCGG Range and	CS_OFFL_SIR_NOPN_2_20221203T120342_20221203T120439_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Disput Disput <thdisput< th=""> <thdisput< th=""> <thdisput< td="" th<=""><td>CS_OFFL_SIR_NOPN_2_20221203T120915_20221203T121134_C001</td><td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></thdisput<></thdisput<></thdisput<>	CS_OFFL_SIR_NOPN_2_20221203T120915_20221203T121134_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCCOR Description OCCOR Description Description Description 05_0FR_SIR_NOPN_2_20221203T144951_20221203T135119_C001 OCCOR Attracter Range Oually PLRM. COCOR Attracter Range SIA SWH and Backscatter Oually PLRM. COCOR Attracter Range SIA SWH Attracter Range and Backscatter Oually PLRM. COCOR Attracter Range SIA SWH and Backscatter Oually PLRM. COCOR Attracter Range SIA SWH Attracter Range Attracter Range SIA SWH and Backscatter Caully PLRM. COCOR Attracter Range SIA SWH and Backscatter Caully PLRM. COCOR Attracter Range SIA SWH attracter Attracter Range SIA SWH and Backscatter Caully PLRM. COCOR Attracter Range SIA SWH attracter Attracter Range SIA SWH and Backscatter Caully Flags Rave been set for one or more records The OCOR Range and Backscatter Caully Flags Rave been set for one or more records	CS_OFFL_SIR_NOPN_2_20221203T124150_20221203T124256_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Copert_Sin_NoPPL_2_02212031143024_002212031144032_0001 OCOG Backscatter Quality FLIM. The OCOG Range and Backscatter Quality FLIM. CS_OFFL_SIR_NOPPL_2_02212031143024_002212031144032_0001 OCOG Backscatter Quality FLIM.OCOG The Ocoan Attimeter Range. SSHA, SWH and Backscatter Quality FLIM. CS_OFFL_SIR_NOPPL_2_02212031152035_0001 Ocoan Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG The Ocoan Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG CS_OFFL_SIR_NOPPL_2_002212031152035_0001 Ocoan Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG The Ocoan Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG CS_OFFL_SIR_NOPPL_2_002212031152037_0001 Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG The Ocoan Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG CS_OFFL_SIR_NOPPL_2_002212031156043_002212031155227_0001 OCOG Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG The Ocoan Attimeter Range. SSHA, SWH and Backscatter Quality FLIM.OCOG CS_OFFL_SIR_NOPPL_2_002212031156043_002212031173109_02212031173109_02212031173109_02212031173109_02212031173109_02212031173109_02212031173109_02212031173109_02212031173109_02212031173200_0001 OCOG Attimeter Range.SSHA, SWH and Backscatter Quality FLIM.OCOG CS_OFFL_SIR_NOPPL_2_002212031182501_0001 Ocean Attimeter Range.SSHA, SWH and Backscatter Quality FLIMS CS_OFFL_SIR_NOPPL_2_002212031192101_0001 Ocean Attinteter Range Cuality FLIM, OCOG The OCO	CS_OFFL_SIR_NOPN_2_20221203T134130_20221203T134357_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
Control Control Control Control CS_OFFL_SIR_NOPN_2_202212031151953_202212031152036_0001 Control Contro Contro Contro </td <td>CS_OFFL_SIR_NOPN_2_20221203T134951_20221203T135118_C001</td> <td></td> <td>The OCOG Range and Backscatter Quality Flags have been set for one or more records</td>	CS_OFFL_SIR_NOPN_2_20221203T134951_20221203T135118_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
GS_OFFL_SIR_NOPN_2_20221203T15183_20221203T15236_C001 and Backscatter Quality PLIM. QCOO Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T155643_20221203T155242_0021105724_20321105724_20321105724_20321105715_C001 OCOG Attimeter Range SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLIM. QCOO Attimeter Range SSHA, SWH and Backscatter Quality PLIM. QCOO Attimeter Range SSHA, SWH and Backscatter Quality Flags are for one or more records CS_OFFL_SIR_NOPN_2_20221203T165742_20321203T170151_C001 OCOG Attimeter Range SSHA, SWH and Backscatter Quality PLIM. QCOG Backscatter Quality PLIM. QCO	CS_OFFL_SIR_NOPN_2_20221203T143924_20221203T144032_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
GS_OFFL_SIR_NOPN_2_20221203T152824_20221203T152837_0001 and Backscatter Quality PLM. OCOG Almeter Range and Backscatter Quality PLM. GS_OFFL_SIR_NOPN_2_20221203T152824_20221203T152837_0001 OCOG Alimeter Range Quality PLM. CS_OFFL_SIR_NOPN_2_20221203T152824_20221203T152827_0001 OCOG Alimeter Range Quality PLM. CS_OFFL_SIR_NOPN_2_20221203T15742_20221203T15742_20221203T170151_0001 OCOG Alimeter Range Alabekcatter Quality PLM. CS_OFFL_SIR_NOPN_2_20221203T173119_20221203T173150_0001 OCOG Alimeter Range Quality PLM. The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T17319_20221203T17319_0001 OCOG Alimeter Range Quality PLM. The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T17319_20221203T173206_0001 OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184701_0001 Alimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T19238_20221203T192515_0001 OCOG Alimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192301_20221203T192515_0001 OCOG Alimeter Range Quality PLM. The OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192301_20221203T192515_0001 OCOG Alimeter Range Cuality Flags have been	CS_OFFL_SIR_NOPN_2_20221203T151953_20221203T152305_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20221203T165742_20221203T170151_C001 CCGG Backscatter Quality more records CS_OFFL_SIR_NOPN_2_20221203T165742_20221203T170151_C001 CCGG Attimeter Range and Backscatter Quality PLRM, CCGG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T173119_20221203T173206_C001 CCGG Attimeter Range Quality PLRM, CGG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T184701_C001 CCGG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, CGG Attimeter Range, SSHA, SWH and B	CS_OFFL_SIR_NOPN_2_20221203T152824_20221203T152937_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20221203T165742_20221203T170151_C001 And Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T173119_20221203T173206_C001 CCCG Altimeter Range Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality Flags and Backscatter Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192319_201_20221203T192515_C001 CCCG Altimeter Range Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 CCCG Altimeter Range, Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T204046_20221203T204151_C001 CCCG Altimeter Range, Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T210451_C001 CCCG Altimeter Range, Quality PLRM, CCGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOP	CS_OFFL_SIR_NOPN_2_20221203T155043_20221203T155227_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184701_C001 Occog Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184701_C001 Ocean Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192338_20221203T192515_C001 Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 Ocean Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T204046_20221203T204151_C001 OCOG Altimeter Range Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T210912_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_NOPN_2_20221203T165742_20221203T170151_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184701_C001 and Backscatter Quality PLRM, OCCG Ifte OCCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192338_20221203T192515_C001 OCCG Altimeter Range Quality PLRM, OCCG The OCCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 Occan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 Occan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T204046_20221203T204151_C001 OCCG Altimeter Range, SMA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001 OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 OCCG Altimeter Range Quality PLRM, OCCG Range and Backscatter Quality Flags have been set for one or more records The OCCG Range and Backscatter Quality Flags have been set for one or more records <td>CS_OFFL_SIR_NOPN_2_20221203T173119_20221203T173206_C001</td> <td></td> <td>The OCOG Range and Backscatter Quality Flags have been set for one or more records</td>	CS_OFFL_SIR_NOPN_2_20221203T173119_20221203T173206_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221203T192301_20221203T192957_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_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_NOPN_2_20221203T204046_20221203T204151_C001 OCCG Altimeter Range Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T210912_C001 OCCG 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_NOPN_2_20221203T210912_C001 Occan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T220649_C001 OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality PLRM, OCCG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T220649_C001 OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224372_C001 OCCG Altimeter Range Quality PLRM,	CS_OFFL_SIR_NOPN_2_20221203T184518_20221203T184701_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPN_2_20221203T204046_20221203T204151_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCOG Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_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_20221203T220205_20221203T224342_20221203T224737_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH 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	CS_OFFL_SIR_NOPN_2_20221203T192338_20221203T192515_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221203T204046_20221203T2041S1_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_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_20221203T22025_20221203T220649_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_20221203T22025_20221203T220649_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_20221203T22025_20221203T220649_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags had Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20221203T192901_20221203T192957_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCGA Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCGA Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T220205_20221203T220649_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_20221203T2203T2203T2203T220649_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_20221203T2203T2203T2203T2203T220649_C001 OCCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20221203T2203T2203T2203T2203T2203T2203T2	CS_OFFL_SIR_NOPN_2_20221203T204046_20221203T204151_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001 OCOG Backscatter Quality more records CS_OFFL_SIR_NOPN_2_20221203T22005_20221203T220649_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_20221203T224342_20221203T224737_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or and backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or and backscatter Quality PLRM, OCOG	CS_OFFL_SIR_NOPN_2_20221203T210659_20221203T210912_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20221203122020S_202212031220649_C001 OCOG Backscatter Quality more records OCoG Backscatter Quality CS_OFFL_SIR_NOPN_2_202212031224342_202212031224737_C001 CS_OFFL_SIR_NOPN_2_202212031224737_C001 CS_OFFL_SIR_NOPN_2_202212031224342_20221031224737_C001 CS_OFFL_SIR_NOPN_2_202212031224342_20221031224342_202212031224342_2022103124342_2022332424342_2022103124342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_20224342_2024444444444	CS_OFFL_SIR_NOPN_2_20221203T215326_20221203T215517_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been and Backscatter Qua	CS_OFFL_SIR_NOPN_2_20221203T220205_20221203T220649_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records
	CS_OFFL_SIR_NOPN_2_20221203T224342_20221203T224737_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPN_2_20221203T230418_20221203T230753_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_20221203T003507_20221203T003748_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_20221203T010424_20221203T010549_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_20221203T011445_20221203T012227_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_20221203T021413_20221203T021820_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_20221203T030550_20221203T030612_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_20221203T030734_20221203T030758_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_20221203T035257_20221203T035641_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_20221203T043229_20221203T043236_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_20221203T045157_20221203T045321_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_20221203T051847_20221203T052243_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_20221203T065627_20221203T070326_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_20221203T082059_20221203T082313_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_20221203T093436_20221203T093802_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_20221203T094014_20221203T094136_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_20221203T115753_20221203T120029_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_20221203T125221_20221203T125742_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_20221203T130907_20221203T131102_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_20221203T133548_20221203T134002_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_20221203T142030_20221203T142229_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_20221203T142548_20221203T142731_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_20221203T143128_20221203T143924_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_20221203T152937_20221203T153502_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_20221203T155730_20221203T160051_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_20221203T160953_20221203T161902_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_20221203T165515_20221203T165742_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_20221203T170848_20221203T171250_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_20221203T174559_20221203T174733_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_20221203T175100_20221203T175436_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_20221203T175436_20221203T175830_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_20221203T184701_20221203T185308_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_20221203T192957_20221203T193539_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_20221203T195647_20221203T195731_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_20221203T202106_20221203T202113_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_20221203T202526_20221203T203033_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_20221203T204452_20221203T204704_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_20221203T210602_20221203T210659_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_20221203T210913_20221203T211250_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_20221203T211250_20221203T211602_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_20221203T224125_20221203T224306_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_20221203T233053_20221203T233330_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.

193

69

140

> 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	186	186	1	185	0
SIR_NOPR1B	123	123	0	123	0
SIR_NOPN1B	111	111	1	110	0
SIR_NOPM_2	200	200	143	57	0
SIR_NOPR_2	123	123	53	69	1
SIR_NOPN_2	111	111	47	64	0

7.1 QCC Errors

Number of QCC reports with errors:	4	
		Total number of occurrences of each error

Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_NOPR_2	1	1	1	1							

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

7.2 QCC Warnings

Number of QCC reports with warnings Total number of occurrences of each warning RBSZOPOEPFDPLRMNCD BCSHNCDF IOHHMOOR MVIOEPFDNCDF MVIOEPNCDF RBSZOPOEPFDNCDF Product Type MVIONCDF SIR_NOPM1B SIR NOPM 2 11 0 29 25 0 SIR_NOPN1B SIR NOPN 2 SIR_NOPR1B SIR_NOPR_2 RPEPOPFDLRMNCDF RPEPOPFDPLRMSARNCE RPEPOPFDPLRMSINNCD RPEPOPFDSARNCDF RBSZOPOEPNCDF RNELPOTONCDF RPEPOPFDSINNCDF Product Type 36 SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B 0 0 0 0 SIR NOPN 2 0 0 SIR_NOPR1B SIR_NOPR_2 Product Type SIR_NOPM1B RPEPOPLRMNCDF RPEPOPSARNCDF RPEPOPSINNCDF RSSBCONCDF RSSHAOFDNCDF RSSHAOFDPLRMNCDF RSSHAONCDF 0 0 8 SIR_NOPM_2 SIR_NOPN1B 25 0 0 SIR_NOPN_2 SIR_NOPR1B SIR_NOPR_2 Product Type SIR_NOPM1B RSWHOEPFDNCDF RSWHOEPFDPLRMNCDF RSWHOEPNCDF SOOHHIFHD SCSTODHRNCDF SCSTODNCDF SIR NOPM 2 SIR NOPN1B SIR NOPN 2 SIR_NOPR1B SIR_NOPR_2

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: