

QA4EO Daily Report for NOP data:

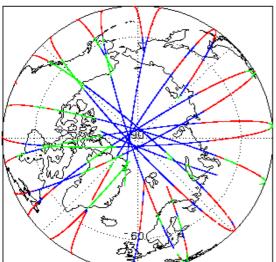
<u>07/12/2021</u>

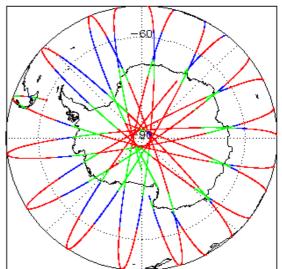
an aut Duaduation.	08-Dec-2021	Check	L1 & L2
Report Production:	08-Dec-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	Cruce Cat Ocean Dresses	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
L1B & L2 Science Data		Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2

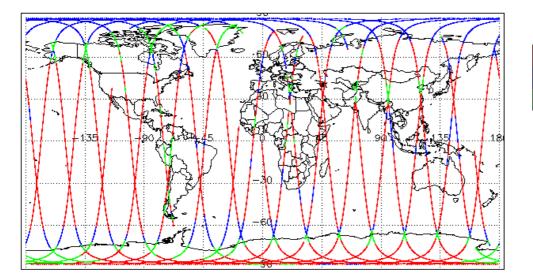
1. Overview

Mission / Ins	Mission / Instrument News		
06-Dec-202	1 None		
07-Dec-202	1 None		
08-Dec-202	1 Nothing planned		









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 binary product file (.DBL). Number of products with errors: 0

4.2 L1B Product Header Analysis
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B IOPR and IOPN 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-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.
Number of products with errors: 0
4.4 L1B Auxiliary Correction Error Check
Consect 1.1D data includes a connection error the for each measurement record. The bit value of this flow indicates any problems when est

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

 Number of products with errors:
 0

4.6 L1B Waveform Group Data Check

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

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

16

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20211207T023157_20211207T023813_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211207T074801_20211207T075005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211207T140712_20211207T142042_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211207T153621_20211207T154115_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211207T025803_20211207T025911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211207T030012_20211207T030122_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211207T043720_20211207T044313_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211207T075934_20211207T080335_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211207T092633_20211207T092737_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211207T134334_20211207T134530_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211207T015731_20211207T020223_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211207T033933_20211207T034101_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211207T061239_20211207T061735_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211207T091717_20211207T091829_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211207T160808_20211207T161505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211207T202254_20211207T202619_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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

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

Number of products with errors:

49

Network Peter Market Peter Market Peter Market G. GAPT, E.R. (JAPAL 9. 2012) 201200000000000000000000000000000			
Description Description Control and Nation Values 2 and Laboratorization of the Section of the	Product CS OFFL SIR NOPM 2 20211207T030802 20211207T032023 C001		There is an error with the Mean Dynamic Topography height for one or
Control Image part		Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>			
Science Research (not Research (not Research (not Research (not 05 OFE, GRI, NORN 2 2021 ID27102012 2021 ID27102011 (DD1) Name Res Science (1), Name Norm (not in 2005 Note) (Name Norm (not in 2005 Norm (Name N	CS_OFFL_SIR_NOPN_2_2021120/1002803_2021120/1003127_C001	Topography (1)	Topography height (solution 1) for one or more records
Status Totograph (split) Totograph (split) Totograph (split)	CS_OFFL_SIR_NOPN_2_20211207T011855_20211207T012359_C001	Topography (1)	Topography height (solution 1) for one or more records
Sci Off, San Norm 2. 2011 201700010 2011 Tracegory (n) Frouggary (n	CS_OFFL_SIR_NOPN_2_20211207T020223_20211207T020511_C001		Topography height (solution 1) for one or more records
GS, DEL, SR, NOPL, 20120000000000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20211207T025803_20211207T025911_C001	Topography (1)	Topography height (solution 1) for one or more records
Bit Stratus Description Interfaction Description Interfaction Bit Stratus Description The stratus Topography regit footings 11 and 11 and 20 and 2	CS_OFFL_SIR_NOPN_2_20211207T033348_20211207T033531_C001	Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium
Si OFL Sin NOPN 2 3221237104730 3221327104730 3021 Tapography (1) Tabagaraphy (a) Tapography (a) Tapography (b) Sin OFL Sin NOPN 2 3221237104730 3021327104730 3001 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin OFL Sin NOPN 2 32212371104730 30213271047175 30213 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin OFL Sin NOPN 2 32212371104730 30213271047175 30213 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin OFL Sin NOPN 2 32212371104730 3021327110471 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin NOPN 2 32212371104730 3021327110471 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin NOPN 2 32212371104730 3021327110471 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin NOPN 2 32212371104730 3021337102710 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin NOPN 2 32212371104730 3221137110457 32211327110457 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin NOPN 2 32212371104730 3221137110459 3221137110459 Mann Dyame Tapography (1) Tabagaraphy (a) Tabagaraphy (a) Sin NOPN 2 32212371104730 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137110459 3221137114593 32011 Tabagaraphy (a) Tab	CS_OFFL_SIR_NOPN_2_20211207T034101_20211207T034314_C001	Mean Dynamic Topography (1)	
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Start Start <th< td=""><td>CS_OFFL_SIR_NOPN_2_20211207T053003_20211207T053230_C001</td><td>Mean Dynamic Topography (1)</td><td></td></th<>	CS_OFFL_SIR_NOPN_2_20211207T053003_20211207T053230_C001	Mean Dynamic Topography (1)	
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Des DFL Silf NOPR 2 201120/10/3034 302120/10/00335 2001 Mean Dynamic Topography (1) more records GS OFFL SIR NOPN 2 2021120/10/557-2021120/1102218.0001 Mean Sea Surface (1), Mean Dynamic Topography (edition 1) and he Mean Dynamic Topography (f) There is an error with the MSS height (edition 1) and he Mean Dynamic Topography (f) GS_OFFL SIR NOPN 2 2021120/110/557-2021120/1102218.0001 Mean Sea Surface (1), Mean Dynamic Topography (f) There is an error with the MSS height (edition 1) and the Mean Dynamic Topography (f) GS_OFFL SIR NOPN 2 2021120/110/557-2021120/1102/18_0001 Mean Sea Surface (1), Mean Dynamic Topography (f) There is an error with the MSS height (edition 1) and the Mean Dynamic Topography (f) GS_OFFL SIR NOPN 2 2021120/114250_02011 Mean Sea Surface (1), Mean Dynamic Topography (f) There is an error with the MSS height (edition 1) and the Mean Dynamic Topography (f) GS_OFFL SIR NOPN 2 2021120/114250_02011 Mean Sea Surface (1), Mean Dynamic Topography (f) There is an error with the MSS height (edition 1) and the Mean Dynamic Topography (f) GS_OFFL SIR NOPN 2 2021120/114250_02011 Mean Sea Surface (1), Mean Dynamic Topography (f) There is an error with the MSS height (edition 1) and the Mean Dynamic Topography (f) GS_OFFL SIR NOPN 2 2021120/114250_0201100 Mean Spannic Topography (f) There is an error with the Mean Dynamic Topography height (edition 1) and the Mean Dynamic Topography (f) GS_OFFL SIR NOPN 2 2021120/114250_020120/1142	CS_OFFL_SIR_NOPN_2_20211207T065938_20211207T070117_C001	Mean Dynamic Topography (1)	
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CS, OFFL, SIR, NOPN 2, 20211207T11018, 20211207T11018, 20211207T11019, 2001 Topography (i), Total Geocenitric Coena Togography (iii) faultic rol: COI) for one more access CS, OFFL, SIR, NOPN 2, 20211207T12032, 20211207T12032, 20211207T12032, 20211207T142340, 2001 Maan Ses Subtrac (1), Mean Dynamic Togography (iii) for one or more access CS, OFFL, SIR, NOPN 2, 20211207T142340, 2001 Mean Ses Subtrac (1), Mean Dynamic Togography (iii) for one or more access CS, OFFL, SIR, NOPN 2, 20211207T142340, 2001 Mean Ses Subtrac (1), Mean Dynamic Togography (iii) for one or more access CS, OFFL, SIR, NOPN 2, 20211207T142340, 2001 Mean Ses Subtrac (1), Mean Dynamic Togography (iii) for one or more access CS, OFFL, SIR, NOPN 2, 20211207T142340, 2001 Mean Dynamic Togography (i), Total Geocentric Coena Tide (GOT) CS, OFFL, SIR, NOPN 2, 20211207T16055, 20211207T16050, 2001 Mean Dynamic Togography (i) There is an error with the Mean Dynamic Togography height for one or more acceds CS, OFFL, SIR, NOPN 2, 20211207T16050, 2001 Mean Dynamic Togography (i) There is an error with the Mean Dynamic Togography height for one or more acceds CS, OFFL, SIR, NOPN 2, 20211207T16050, 2001 Mean Dynamic Togography (i) There is an error with the Mean Dynamic Togography height for one or more acceds CS, OFFL, SIR, NOPN 2, 20211207T16350, 20211207T16322, 2001 Mean Dynamic Togography (i) There is an error with the Mean Dynamic Togography height for one or more acceds CS, OFFL, SIR,	CS_OFFL_SIR_NOPN_2_20211207T101857_20211207T102218_C001		
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CS_OFFL_SIR_NOPN_2_20211207T174258_20211207T174582_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_20211207T174258_20211207T192325_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20211207T191836_20211207T192325_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_20211207T191806_20211207T193106_001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20211207T2105859_20211207T21032_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_20211207T21536_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_20211207T21538_20211207T21536_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) CS_OFFL_SIR_NOPN_2_20211207T233733_20211207T233446_C001 Mean Sea Surface (1). Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPR_2_20211207T05731_20211207T025232_C001 Mean Sea Surface (1). Mean Dynamic Topography height (solution 1) or one or more records	CS_OFFL_SIR_NOPN_2_20211207T165247_20211207T165548_C001	Mean Dynamic Topography (1)	
CS_OPPE_SIR_NOPN_2_20211207T191836_20211207T193235_0001 Investigation <	CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20211207T193106_20211207T193141_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_20211207T205659_20211207T21502_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_20211207T215150_20211207T215316_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_20211207T215832_20211207T215316_C001 Mean Sea 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_20211207T215832_20211207T233446_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) CS_OFFL_SIR_NOPN_2_20211207T233138_20211207T233918_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) CS_OFFL_SIR_NOPR_2_20211207T025128_20211207T02523_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20211207T025282_20211207T025283_C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20211207T025282_20211207T025803_	CS_OFFL_SIR_NOPN_2_20211207T174258_20211207T174632_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_202112071193106_202112071193141_0001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_2021120772159859_202112077210023_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_202112077215832_202112077215316_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_202112077215832_202112077220136_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202112077233138_202112077233446_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) CS_OFFL_SIR_NOPN_2_202112077233733_202112077233918_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_202112077015731_202112077020223_C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_202112077025282_202112077025803_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_NOPR_2_202112077025252_202112077030648_C001 Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1) and the Me	CS_OFFL_SIR_NOPN_2_20211207T191836_20211207T192325_C001	Total Geocentric Ocean Tide (GOT)	
CS_OFFL_SIR_NOPN_2_20211207T215150_20211207T215316_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_20211207T215150_20211207T215316_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_20211207T215832_20211207T223016_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211207T233138_20211207T233146_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211207T233733_20211207T233918_C001 Mean Sea Surface (1), Mean Dynamic Topography (i) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (i) CS_OFFL_SIR_NOPN_2_20211207T015731_20211207T020223_C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20211207T025128_20211207T025231_C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20211207T025252_20211207T025231_C001 Mean Sea Surface (1), Mean Dynamic Topography (i) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (i) CS_OFFL_SIR_NOPR_2_20211207T025252_20211207T025803_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20211207T043037_20211207T030455_02011	CS_OFFL_SIR_NOPN_2_20211207T193106_20211207T193141_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20211207T215832_20211207T215832_20211207T215832_20211207T215832_20211207T215832_20211207T220136_C001 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_20211207T233138_20211207T233146_C001 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_20211207T233733_20211207T233918_C001 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_20211207T015731_20211207T020223_C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20211207T025282_20211207T025231_C001 Mean Sea Surface (1) There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPR_2_20211207T025282_20211207T025231_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPR_2_20211207T025252_20211207T025803_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_20211207T030455_20211207T030648_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_NOPR_2_20211207T043037_20211207T043037_20211207T043037_20	CS_OFFL_SIR_NOPN_2_20211207T205859_20211207T210023_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_202112071233138_202112077233446_C001Topography (1)Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_202112077233138_202112077233446_C001Mean 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 recordsCS_OFFL_SIR_NOPN_2_202112077233733_202112077233918_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic 	CS_OFFL_SIR_NOPN_2_20211207T215150_20211207T215316_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_202112071233136_202112071233918_C001Topography (1)Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211207T233733_20211207T233918_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T015731_20211207T020223_C001Mean Sea Surface (1)There is an error with the MSS height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T025128_20211207T025231_C001Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and the Mean Dynamic more recordsCS_OFFL_SIR_NOPR_2_20211207T025252_20211207T025803_C001Mean 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 recordsCS_OFFL_SIR_NOPR_2_20211207T030455_20211207T030648_C001Total Geocentric Ocean Tide (GOT)There is an error with the Total Geocentric Ocean Tide height (solution 1) GOT) for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T043037_20211207T043719_C001Mean 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_NOPR_2_20211207T043037_20211207T043719_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T043037_20211207T043719_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T043037_20211207T043719_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean DynamicC	CS_OFFL_SIR_NOPN_2_20211207T215832_20211207T220136_C001		
CS_OFFL_SIR_NOPR_2_202112077015731_202112077020223_C001Mean Sea Surface (1)Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_202112077025128_202112077025231_C001Mean Sea Surface (1)There is an error with the MSS height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_202112077025252_202112077025231_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography height for one or more recordsCS_OFFL_SIR_NOPR_2_202112077025252_202112077025803_C001Mean 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 recordsCS_OFFL_SIR_NOPR_2_202112077030455_202112077030648_C001Total Geocentric Ocean Tide (GOT)There is an error with the Total Geocentric Ocean Tide height (solution 1) GOT) for one or more recordsCS_OFFL_SIR_NOPR_2_202112077043037_202112077043719_C001Mean 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_20211207T233138_20211207T233446_C001		
CS_OFFL_SIR_NOPR_2_20211207T025282_20211207T025231_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography height for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T025252_20211207T025803_C001Mean 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 recordsCS_OFFL_SIR_NOPR_2_20211207T030455_20211207T030648_C001Total Geocentric Ocean Tide (GOT)There is an error with the Total Geocentric Ocean Tide height (solution 1): GOT) for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T043037_20211207T043719_C001Mean 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 recordsCS_OFFL_SIR_NOPR_2_20211207T043037_20211207T043719_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPR_2_20211207T061239_20211207T061735_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_NOPN_2_20211207T233733_20211207T233918_C001		
CS_OFFL_SIR_NOPR_2_202112077025252_202112077025803_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_NOPR_2_202112077030455_202112077030648_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic GOT) for one or more records CS_OFFL_SIR_NOPR_2_202112077030455_202112077030648_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic GOT) for one or more records CS_OFFL_SIR_NOPR_2_202112077043037_202112077043719_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_202112077061239_202112077061735_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_202112077061239_202112077061735_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20211207T015731_20211207T020223_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_202112077030455_202112077030648_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_202112077030455_202112077030648_C001 Total Geocentric Ocean Tide (GOT) There is an error with the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_202112077043037_202112077043719_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_202112077061239_202112077061235_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20211207T025128_20211207T025231_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPR_2_202112077043037_202112077043719_C001 Total Geocentric Ocean Tride (GOT) GOT) for one or more records CS_OFFL_SIR_NOPR_2_202112077043037_202112077043719_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPR_2_202112077061239_202112077061235_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20211207T025252_20211207T025803_C001		
CS_OFFL_SIR_NOPR_2_202112071043037_202112071043719_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20211207T030455_20211207T030648_C001	Total Geocentric Ocean Tide (GOT)	
	CS_OFFL_SIR_NOPR_2_20211207T043037_20211207T043719_C001		
	CS_OFFL_SIR_NOPR_2_20211207T061239_20211207T061735_C001		

CS_OFFL_SIR_NOPR_2_20211207T074642_20211207T074801_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_20211207T075005_20211207T075934_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_20211207T093025_20211207T093827_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_20211207T111110_20211207T111827_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_20211207T111916_20211207T111946_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	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_NOPR_2_20211207T125015_20211207T125735_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_20211207T140458_20211207T140712_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20211207T142930_20211207T143624_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_20211207T160808_20211207T161505_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_20211207T174632_20211207T174738_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_20211207T174738_20211207T175540_C001		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_NOPR_2_20211207T192325_20211207T193106_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_20211207T223911_20211207T224049_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

0

87

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20211206T235855_20211207T001634_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_20211207T003516_20211207T004851_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_20211207T005012_20211207T005225_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_20211207T005706_20211207T010427_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_20211207T012411_20211207T014142_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_20211207T014322_20211207T015731_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_20211207T020511_20211207T020715_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_20211207T020815_20211207T021216_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_20211207T021411_20211207T022852_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_20211207T023157_20211207T023813_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_20211207T024641_20211207T024658_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_20211207T025911_20211207T030011_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_20211207T030802_20211207T032023_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_20211207T032606_20211207T033348_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_20211207T033531_20211207T033933_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_20211207T034314_20211207T035120_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_20211207T035358_20211207T040857_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_20211207T042439_20211207T042440_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_20211207T044554_20211207T051850_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_20211207T052435_20211207T053003_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_20211207T053311_20211207T055752_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_20211207T063135_20211207T065646_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_20211207T070405_20211207T070854_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_20211207T071224_20211207T073929_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_20211207T074801_20211207T075005_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_20211207T080335_20211207T083604_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_20211207T084315_20211207T084845_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_20211207T085201_20211207T085634_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_20211207T092737_20211207T093025_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_20211207T094242_20211207T101602_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_20211207T102218_20211207T102732_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_20211207T103214_20211207T104753_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_20211207T112059_20211207T115433_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_20211207T115757_20211207T120219_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_20211207T120238_20211207T120632_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_20211207T121119_20211207T124458_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_20211207T124619_20211207T124908_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_20211207T130120_20211207T131200_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.

Description Description Description Description Description 02_001_01_00_0001_2_RETERTITETE_20112011_2010_0001 Control Filler Description	CS_OFFL_SIR_NOPM_2_20211207T131641_20211207T131803_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CH PERF_URL_NET_NET_12011 20111001111 2011100111 20111001	CS_OFFL_SIR_NOPM_2_20211207T131805_20211207T132002_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCCUPTURE/INFORMAL 2011/00/11/2011 2011 2011 2011 2011 201	CS_OFFL_SIR_NOPM_2_20211207T132117_20211207T133406_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DC DFL SPL NUM 2 200110071103102 20110071103102 20110071103102 200110071 Basecaster Guaty the core of more records. DC DFL SPL NOM 2 200110071103102 20110071103100 201100000 The core one one core one core one core one co	CS_OFFL_SIR_NOPM_2_20211207T133601_20211207T134119_C001		
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CS_0FFL_SR_VOPM_2_T021107113014_2001107114640_001 and Backachter Duality, COG5 and Backachter Duality, COG5 CS_0FFL_SR_VOPM_2_T021107113014_2001107114504_001 Coex Altereter Rangs, SSIA, SWI and Backachter Duality Flags New Beachter Dua	CS_OFFL_SIR_NOPM_2_20211207T134138_20211207T134334_C001		
03_0FL_SRUNDH_2_20211207114071_20211207114074_2021 and Baskszelato Qualty, OCOG and Paskszelato Qualty, OCOG and Paskszelato Qualty, OCOG 03_0FL_SRUNDH_2_20211207114074_20211207114074_0021 Coexa Alimeter Rangs, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207114074_00211207114074_0021 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207114076_20211207114076 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207114076_20211207114070 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207114076_202112071140701 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207114071 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207114081_20011207115128_001 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207115128_001 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207115128_0021 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_20211207115128_0021 Coexa Alimeter Rang, SSH, SWI The Coexa Alimeter Rang, SSH, SWI 03_0FL_SRUNDH_2_202112071151	CS_OFFL_SIR_NOPM_2_20211207T135148_20211207T140458_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB OFFL SIR NOPM 2. 20211207114240 20211207114231 0001 Ameter Range and Baskscatter Quality Flags have been after and an experiment of an one records. CG_OFFL_SIR_NOPM 2. 202112071142748_202112071144010_O001 CG_OFFL_SIR_NOPM 2. 202112071142748_202112071144010_O001 CG_OFFL_SIR_NOPM 2. 202112071142748_202112071144010_O001 CG_OFFL_SIR_NOPM 2. 202112071142748_202112071144010_O001 CG_OFFL_SIR_NOPM 2. 202112071145748_202112071144010_O001 CG_OFFL_SIR_NOPM 2. 202112071145748_202112071144010_O001 CG_OFFL_SIR_NOPM 2. 202112071145748_202112071151248_O001 CG_OFFL_SIR_NOPM 2. 202112071145741_202112071151248_O001 CG_OFFL_SIR_NOPM 2. 202112071151248_O001 CG_OFFL_SIR_NOPM 2. 202112071151251_O001 CG_OFFL_SIR_NOPM 2. 202112071151251_O0011207154712_0001 CG_OFFL_SIR_NOPM 2. 202112071151251_O001 CG_OFFL_SIR_NOPM 2. 202112071151255_O001 CG_OFFL_SIR_NOPM 2. 202112071151255_O001 CG_OFFL_SIR_NOPM 2. 202112071151255_O001 CG_OFFL_SIR_NOPM 2. 202112071	CS_OFFL_SIR_NOPM_2_20211207T140712_20211207T142042_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Displant	CS_OFFL_SIR_NOPM_2_20211207T142140_20211207T142341_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T14637_20211207T146375_0011 and Backscatter Quality, COCG and the COCG Allimeter Range and Backscatter Quality Flags have been Allimeter Range and Backscatter Quality Flags have been and backscatter Quality Flags have been and backscatter Quality. COCG CS_OFFL_SIR_NOPM_2_20211207T145841_00211207T151248_CO01 Cocan Allimeter Range SINA, SWH and Backscatter Quality. Flags have been and backscatter Quality. COCG The Ocean Allimeter Range and Backscatter Quality. Flags have been and backscatter Quality. COCG CS_OFFL_SIR_NOPM_2_20211207T158282_20211207T15828_20211207T15828_20211207T15828_2021120	CS_OFFL_SIR_NOPM_2_20211207T143746_20211207T144010_C001		
CS_OFFL_SIR_NOPM_2_20211207T151248_0001 and tablecatter Quality. COCG Alternet Range and Backscatter Quality. COCG Backscatter Quality. The OCGA Alternet Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T151282_0211207T151293_0001 OCGA Alternet Range Quality. COCG Backscatter Quality. The OCGA Alternet Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T151292_1207T154115_CO01 OCGA Alternet Range Quality. COCG Alternet Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T154654_20211207T154051_CO01 OCGA Alternet Range Quality. COCG Alternet Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T154654_20211207T154052_CO01 OCGA Alternet Range Quality. COCG Alternet Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T155152_0211207T155919_CO01 OCGA Alternet Range And Backscatter Quality. Flags have been Alternet Range and Backscatter Quality. COCG Alternet Range and Backscatter Quality. Flags have been Alternet Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T165214_20211207T165419_20211207T16549_20211207T16549_20211207T16548_20211207T16548_20211207T16548_20211207T16548_20211207T16548_20211207T16548_20211207T16548_20211207T16548_20211207T	CS_OFFL_SIR_NOPM_2_20211207T144637_20211207T145701_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T153821_20211207T154115_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20211207T153821_20211207T154115_C001 Ocean Altimeter Range and Backscatter Quality CoCG The OCCO Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T154625_20211207T154715_C001 Ocean Altimeter Range and Backscatter Quality CoCG The OCCA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T154745_20211207T155052_C001 Ocean Altimeter Range and Backscatter Quality CoCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T150215_20211207T150913_C001 Ocean Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T16014_20211207T165137_C001 Ocean Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCEAN Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T163104_20211207T165137_C001 Ocean Altimeter Range. SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T163104_20211207T165137_C001	CS_OFFL_SIR_NOPM_2_20211207T145841_20211207T151248_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T15821_20211207T15415_C001 and Backscatter Quality, C0C0 Attemeter Range and Backscatter Quality into COC0 Attemeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T154654_20211207T154712_C001 Cocan Attemeter Range, SSHA, SWH and Backscatter Quality, COC0 Backscatter Quality, COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags and the COC0 Attemeter Range, SSHA, SWH and the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags and the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags and the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags and the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags and the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags and the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags and the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the COC0 Attemeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the COC0 Attemeter Range and Backscatter Quality, Flags have been at the COC0 Attemeter Range and Backscatter Quality, Flags have been at the COC0 Attemeter Range and Backscatter Quality, Flags have been at the COC0 Attemeter Range and Backscatter Quality, Flags have been at the COC0 Attemeter Range and Backscatter Quality, Flags have been at the COC0 Attemeter Range and Backscatter Quality, Flags have been at the COC0 Atteme	CS_OFFL_SIR_NOPM_2_20211207T151528_20211207T152031_C001		
CS_OFFL_SIR_NOPM_2_0011207T154745_20211207T155052_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_00211207T155755_20211207T155052_C001 Coesan Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Coesan Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T16548_20211207T165948_20211207T178258_C001 Coesan Altimeter Range, SSHA, SWH and Backscatter Quality, COEGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T1180544_20211207T1183125_C001 Coesan Altimeter Range ALSHA, SWH and Backscatter Quality, COEGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T118338_20211207T183390_2021 COEGA Altimeter Range Quality, COEGA Altimeter Range and Back	CS_OFFL_SIR_NOPM_2_20211207T153621_20211207T154115_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T154745_20211207T155052_0001 and Backscatter Quality. COCG and the OCOG Altimeter Range and Backscatter Quality. Gocg and the OCOG Altimeter Range. SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T155215_20211207T155913_C001 Altimeter Range. SSHA, SWH and the OCOG Altimeter Range. SSHA, SWH and the OCOG Altimeter Range. SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T16517_C001 Altimeter Range. SSHA, SWH and the OCOG Altimeter Range. SSHA, SWH and the OCOG Altimeter Range. SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T16517_C001 Cocan Altimeter Range. SSHA, SWH and the OCOG Altimeter Range. SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T165147_C001 Backscatter Quality. COCG The Ocean Altimeter Range. SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T16548_02011207T16548_C001 Backscatter Quality. COCG The OCGG Altimeter Range and Backscatter Quality Flags have been ast CS_OFFL_SIR_NOPM_2_20211207T170524_20211207T173258_C001 Cocan Altimeter Range. SSHA, SWH The Ocean Altimeter Range. SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T180644_20211207T18325_C001 Cocan Altimeter Range. SSHA, SWH The Ocean Altimeter Range. SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T183338_20211207T183393_C001 Cocan Altimeter Range Cuality. COCG The Ocean Altimeter Range and Backscatter Quality Flags have been ast CS_OFFL_SIR_NOPM_2_20211207T183338_20211207T183338_20211207T183339_C0001 Cocan Altimeter Range Cuality. COCG	CS_OFFL_SIR_NOPM_2_20211207T154654_20211207T154712_C001		
CS_OFFL_SIR_NOPM_2_20211207T155215_20211207T155913_C001 and Backscatter Quality Gality Edit for one or more records. CS_OFFL_SIR_NOPM_2_20211207T163104_20211207T165137_C001 Cean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOC Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T165146_20211207T165948_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T170624_20211207T173258_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T180644_20211207T173258_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T180644_20211207T183125_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T18338_20211207T183903_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T18435_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T184625_20211207T184625_20211207T184625_20211207T184625_20211207T184625_20211207T184625_20211207T194386_C001 Decean Altimeter Range Quality, OCOG Altimeter Range and Backscatt	CS_OFFL_SIR_NOPM_2_20211207T154745_20211207T155052_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T163104_20211207T165137_C001 and Backscatter Quality OCGG Attimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T165548_20211207T165548_C001 OCGA Attimeter Range Quality, OCGG Backscatter Quality, OCGG The OCGA Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T165548_20211207T173258_C001 OCGA Attimeter Range, SSHA, SWH and Backscatter Quality, OCGG Attimeter Range, SSHA, SWH and Backscatter Quality, OCGG The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been are the OCGG Attimeter Range, SSHA, SWH and Backscatter Quality Flags are the OCGG Attimeter Range, SSHA, SWH and Backscatter Quality Flags are the OCGG Attimeter Range and Backscatter Quality Flags are tor one or more records. CS_OFFL_SIR_NOPM_2_20211207T18338_20211207T183903_C001 OCCGA Attimeter Range Quality, OCGG Backscatter Quality, OCGG The OCGG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184235_C001 OCCGA Attimeter Range Quality, OCGG Attimeter Range Quality, OCGG The OCGG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184225_20211207T184235_C001 OCCGA Attimeter Range, SSHA, SWH and Backscatter Quality, OCGG Attimeter Range, SSHA, SW	CS_OFFL_SIR_NOPM_2_20211207T155215_20211207T155913_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T170624_20211207T173258_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20211207T170624_20211207T173258_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211207T180644_20211207T183125_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T18338_20211207T183903_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T18338_20211207T184235_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, and Backscatter Quality, Flags have been and the OCOG Altimeter Range, ASHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, ASHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, ASHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quali	CS_OFFL_SIR_NOPM_2_20211207T163104_20211207T165137_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T170624_20211207T173258_C001 and Backscatter Quality, COCG and the OCCG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211207T180644_20211207T183125_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211207T183084_20211207T183903_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T183909_20211207T184235_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T183909_20211207T184235_C001 OCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184255_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T200252_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Ra	CS_OFFL_SIR_NOPM_2_20211207T165548_20211207T165948_C001		
CS_OFFL_SIR_NOPM_2_20211207T180644_20211207T183125_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T183338_20211207T183903_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_20211207T1833909_20211207T183903_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_20211207T183909_20211207T184235_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, Isags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, Isags have been Altimeter Range and Backscatter Quality, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20211207T170624_20211207T173258_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T183338_20211207T183903_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20211207T183909_20211207T184235_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T194326_20211207T200252_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T200252_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T200530_20211207T201017_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20211207T180644_20211207T183125_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality COGG Altimeter Range and Backscatter Quality OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T200252_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH CS_OFFL_SIR_NOPM_2_20211207T200530_20211207T201017_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Backscatter Quality Flags have been at the OCOG Altimeter Range and Bac	CS_OFFL_SIR_NOPM_2_20211207T183338_20211207T183903_C001		
CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Set for one or more records. CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T200252_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T200252_C001 Ocean Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20211207T200530_20211207T201017_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20211207T183909_20211207T184235_C001		
CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T200252_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Cocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been CS_OFFL_SIR_NOPM_2_20211207T200530_20211207T201017_C001 and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20211207T184625_20211207T191836_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20211207T200530_20211207T201017_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20211207T194326_20211207T200252_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20211207T200530_20211207T201017_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20211207T201340_20211207T202142_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_20211207T202619_20211207T205859_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_20211207T214128_20211207T214154_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_20211207T214158_20211207T214836_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_20211207T215316_20211207T215831_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_20211207T220505_20211207T222645_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_20211207T222931_20211207T223911_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_20211207T225026_20211207T225123_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_20211207T225208_20211207T225508_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_20211207T230940_20211207T231539_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_20211207T231726_20211207T232753_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_20211207T233446_20211207T233733_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_20211207T234427_20211208T001052_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_20211207T020715_20211207T020815_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_20211207T024058_20211207T024335_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_20211207T052009_20211207T052156_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_20211207T053003_20211207T053230_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_20211207T071005_20211207T071128_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_20211207T144325_20211207T144637_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_20211207T154115_20211207T154503_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_20211207T212910_20211207T213043_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_20211207T035308_20211207T035358_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_20211207T183125_20211207T183221_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

Number of products with errors:

C2. OHL, SHI, MOPL, J. BRI 16211902002, DBI 16211902002, CON Deer Alterner Hang, SMA 2001, SMA 2	Product	Test Failed	Description
BCUTCUICUICUICUICUICUICUICUICUICUICUICUICUIC	CS_OFFL_SIR_NOPN_2_20211207T002332_20211207T002607_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 Flags have been
Control and John J, Control and	CS_OFFL_SIR_NOPN_2_20211207T024058_20211207T024335_C001		
eg_per_ger_ber_ber_centre base base and bas and base and	CS_OFFL_SIR_NOPN_2_20211207T032023_20211207T032606_C001		
Control Control Control Resource Control Control Resource Control Control Control Control Resource Control Control Resource Control Control Resource Control Control Control Control Resource Control Control Resource Control Control Resource Control Control Resource Control Control Responsible Control Respo	CS_OFFL_SIR_NOPN_2_20211207T033348_20211207T033531_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS OFTL SIR NORM 2 0211207704030 02011207704030 0201 Image: Sum of the sum	CS_OFFL_SIR_NOPN_2_20211207T041842_20211207T042204_C001		
C3_0FR_SR_NCPU_2_021102/102008_0201102/102008_02010 PDC00 Allmeter Range Database with the PLASE OCCUR. C3_0FR_SR_NCPU_2_021102/102078_0201102/102078_02010 DC00 Allmeter Range Databy PLASE The DC00 Range and Backsoather Caship Flags have been set for one or non-records. C3_0FR_SR_NCPU_2_021102/102078_0201102/102078_02010 DC00 Allmeter Range Databy PLASE. The DC00 Range and Backsoather Caship Flags have been set for one or non-records. C3_0FR_SR_NCPU_2_021102/102078_0201102/102058_020100 DC00 Allmeter Range Databy PLASE. The DC00 Range and Backsoather Caship Flags have been set for one or non-records. C3_0FR_SR_NCPU_2_021102/102058_0201102/102058_0201000 DC00 Allmeter Range Databy PLASE. The DC00 Range and Backsoather Caship Flags have been set for one or near records. C3_0FR_SR_NCPU_2_021102/102058_0201102/102058_0200000 DC00 Allmeter Range Databy PLASE. The DC00 Range and Backsoather Caship Flags have been set for one or near records. C3_0FR_SR_NCPU_2_021102/102058_02010001 DC00 Allmeter Range Databy PLASE. The DC00 Range and Backsoather Caship Flags have been set for one or near records. C3_0FR_SR_NCPU_2_021102/1020517_02012_010017_021102/102050_0001 DC00 Allmeter Range Databy PLASE. The DC00 Range and Backsoather Caship Flags have been set for one or near records. C3_0FR_SR_NCPU_2_0201102/1102051_020110_071104000_0001 DC00 Allmeter Range SAAL WARD. The DC00 Range and Backsoather Caship Flags have been set for one or near records. <	CS_OFFL_SIR_NOPN_2_20211207T043720_20211207T044313_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US: DFL_SIR_NOPK_2.201120170108_001120170408_0011128 COOD Badacetter Gualty or non-excode. CGG GRFL_SIR_NOPK_2.201120170108_001120170408_001120170408 COOD Badacetter Cualty The COOD Repage and Backstather Dualty Flags have been set for one or non-excode. CGG GRFL_SIR_NOPK_2.2011201708086_001120709408_0011120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_001120709408_0011111000001 COOD Advector Repage Outly FLAW The COOD Repage and Backstanter Outly FLAW The COOD Repage an	CS_OFFL_SIR_NOPN_2_20211207T053003_20211207T053230_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS DFL SH, NOPN 2 2021120/110/100 2021120/110/120 0001 OCOG Backwaster Gualty or more recods. CS DFFL SH, NOPN 2 2021120/1108/548 2021120/1108/515 0001 OCOG Administer Range Gualty PLRM. The COCG Barge and Backwaster Gualty Flags have been set for one recods. CS_OFFL_SH_NOPN_2_2021120/1108/518_2001120/1108/518_0001 OCOG Administer Range Gualty PLRM. The COCG Barge and Backwaster Gualty Flags have been set for one recods. CS_OFFL_SH_NOPN_2_2021120/1108/518_2001 OCOG Administer Range Gualty PLRM. The COCG Range and Backwaster Gualty Flags have been set for one recods. CS_OFFL_SH_NOPN_2_2021120/1108/57.0001120/1109/610_2001 OCOG Administer Range Gualty PLRM. The COCG Range and Backwaster Gualty Flags have been set for one recods. CS_OFFL_SH_NOPN_2_2021120/1108/12_2001120/1109/12_2001 OCOG Administer Range Gualty PLRM. The COCG Range and Backwaster Gualty Flags have been set for one recods. CS_OFFL_SH_NOPN_2_2021120/1109/12_2021120/11109/12_	CS_OFFL_SIR_NOPN_2_20211207T055752_20211207T055850_C001		
CS_OFFL_SIR_NOPN_2_20211207108444_20211207108502_001 OCOG Backacater Guality or more records. CS_OFFL_SIR_NOPN_2_20211207108444_20211207108502_001 OCOG Releadecater Guality or more records. CS_OFFL_SIR_NOPN_2_20211207108444_20211207108502_001 OCOG Releadecater Guality or more records. CS_OFFL_SIR_NOPN_2_20211207108610_00211207108502_001 OCOG Releadecater Guality The OCOG Range and Backscatter Guality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_202112071082104_022112071082151_001 OCOG Atmeter Range Guality PLIML The OCOG Range and Backscatter Guality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_202112071082104_022112071109400_001 OCOG Atmeter Range Guality PLIML The OCOG Range and Backscatter Guality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_202112071110918_00211207711109400_001 OCOG Atmeter Range GUALIX PLIML The OCOG Range and Backscatter Guality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_202112071110918_002120771109400_001 OCOG Atmeter Range GUALIX PLIML The OCOG Range and Backscatter Guality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207114058_02112077110742_001 DEAGA Atmeter Range GUALIX PLIML The OCOG Atmeter Range GUALIX PLIML The OCOG Atmeter Range GUALIX PLIML CS_OFFL_SIR_NOPN_2_2021120771142714_022112077142730_001 OCOG Atmeter Range GUALIX PLIML The OCOG Atmeter Range GUALIX PLIML CS_OFFL_SIR_NOPN_2_2021120771142714_022112077144273_001 </td <td>CS_OFFL_SIR_NOPN_2_20211207T071005_20211207T071128_C001</td> <td></td> <td></td>	CS_OFFL_SIR_NOPN_2_20211207T071005_20211207T071128_C001		
US_DFIL_SHP_NOPL_2_80211207108682_00211207108982_0021 OCOD Backscatter Quality In more records CS_OFFIL_SIR_NOPN_2_802112071080617_80211207108982_00201 OCOD Attimuter Range Quality PLIM, OCOD Backscatter Quality The OCOD Range and Backscatter Quality Flags have been set for one or more records. CS_OFFIL_SIR_NOPN_2_802112071080617_80211207108928_0001 OCOD Attimuter Range Quality PLIM, OCOD Backscatter Quality The OCOD Range and Backscatter Quality Flags have been set for one or more records. CS_OFFIL_SIR_NOPN_2_80211207110918_002112071111109_0001 DECOD Attimuter Range SSHA_SWH mit Backscatter Quality PLIM, OCOD Attimuter Range SSHA_SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFIL_SIR_NOPN_2_802112071110918_0211207111019_0001 DECOD Attimuter Range SSHA_SWH mit Backscatter Quality Flags have been set for one or more records. CS_OFFIL_SIR_NOPN_2_802112071110918_0211207111019_0001 DECOD Attimuter Range SSHA_SWH mit Backscatter Quality Flags have been set for one PLIM CS_OFFIL_SIR_NOPN_2_80211207114018_02211207114714_72_0001 DECOD Attimuter Range Duality PLIM, OCOD Attimuter Range Duality Flags Norme records. The OCOD Range and Backscatter Quality Flags have been set for one or more records. CS_OFFIL_SIR_NOPN_2_802112071142714_802112071142730_0001 DECOD Attimuter Range Duality PLIM, OCOD Attimuter Range Duali	CS_OFFL_SIR_NOPN_2_20211207T083946_20211207T084315_C001		
Cool Backscatter Quality in order records. in order records. in order records. Cool Altimeter Range Quality PLRM. Cool Backscatter Quality FLRM. Cool Backscatte	CS_OFFL_SIR_NOPN_2_20211207T084845_20211207T085002_C001		
CS_DFPL_SIR_NOPN_2_20211207T1093827_20211207T094039_C001 OCOG Backscatter Gually or more records. CS_OFFL_SIR_NOPN_2_20211207T1093827_20211207T094039_C001 OCOG Atimeter Range Cually PLRM, OCOG Backscatter Gually The OCOG Range and Backscatter Cually Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T10918_20211207T110918_20201 OCOG Atimeter Range Cually FLRM, OCOG Atimeter Range Cually FLRM, OCOG Atimeter Range and Backscatter Oually FLRM, COCOG Backscatter Oually	CS_OFFL_SIR_NOPN_2_20211207T090817_20211207T090920_C001		
CSUDFL_SIR_NOPN_2_20211207T109382/_20211207T1109430_0001 CCCG Backscatter Quality or more records. CSUDFL_SIR_NOPN_2_20211207T110918_0211207T11109_0001 CCCG Backscatter Quality The Ocean Attineter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records. CSUDFL_SIR_NOPN_2_20211207T110918_0211207T1120742_0001 CCCG Backscatter Quality Flags Name The Ocean Attineter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records. CSUDFL_SIR_NOPN_2_20211207T130334_20211207T130742_0001 CCCG Backscatter Quality Flags Name The OCCG Range and Backscatter Quality Flags have been at for one or more records. CSUDFL_SIR_NOPN_2_20211207T142714_20211207T142730_0001 CCCG Attineter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records. The OCCGR Attineter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_NOPN_2_20211207T142714_20211207T142730_0001 CCCG Attineter Range, SSHA, SWH and Backscatter Quality Flags have been at for one or more records. The OCCGR Attineter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_NOPN_2_20211207T142714_20211207T144535_0001 CCCG Attineter Range Quality PLRM, OCCG Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_NOPN_2_20211207T15405_001 CCCG Attineter Range Quality PLRM, OCCG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T15405_02001 CCCG	CS_OFFL_SIR_NOPN_2_20211207T092104_20211207T092153_C001		
CS_OFFL_SIR_NOPN_2_20211207T110918_20211207T11109_0001 and Backscatter Quality PLRM. COCO Attemeter Parage and Backscatter Quality PLRM. The OCOG Attemeter Parage and Backscatter Quality PLRM and Backscatter Quality PLRM and Backscatter Quality PLRM and Backscatter Quality PLRM. CS_OFFL_SIR_NOPN_2_20211207T14234_20211207T14230_C001 COCGA Attemeter Range ASHA. SWH and Backscatter Quality PLRM. COCO Attemeter Parage and Backscatter Quality PLRM. The OCOG Attemeter Parage and Backscatter Quality PLRM. CS_OFFL_SIR_NOPN_2_20211207T142714_20211207T142730_C001 COCGA Attemeter Range ASHA. SWH and Backscatter Quality PLRM. COCO Attemeter Parage and Backscatter Quality FLRM. The OCOG Attemeter Parage and Backscatter Quality FLRS and the COCGA Attemeter Parage and Backscatter Quality FLRS and the COCGA Range and Backscatt	CS_OFFL_SIR_NOPN_2_20211207T093827_20211207T094030_C001		
CS_OFFL_SIR_NOPN_2_20211207T120532_20211207T120742_C001 and Backscatter Quality PLRM_COCO_ Attimeter Range and Backscatter Quality PLRM_COCO_ Attimeter Range and Backscatter Quality PLRM_COCO_ PLRM The OCOG Attimeter Range and Backscatter Quality PLRM_COCO_ attimeter Range and Backscatter Quality PLRM_COCO_ COCO Attimeter Range and Backscatter Quality PLRM_COCO_ Coco Attimeter Range and Backscatter Quality PLRM_COCO_ Attimeter Range and Backscatter Quality FLRM_COCO_ Attimeter Range and Backscatter Qu	CS_OFFL_SIR_NOPN_2_20211207T110918_20211207T111109_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20211207T142714_20211207T142730_C001 OCOG Backscatter Quality or more records. CS_OFFL_SIR_NOPN_2_20211207T142714_20211207T142730_C001 Ocean Altimeter Range AND Backscatter Quality The Ocean Altimeter Range and Backscatter Quality FIAM, OCOG Altimeter Range and Backscatter Quality FIAM, OCOG Altimeter Range and Backscatter Quality FIAM, OCOG Backscatter Quality PLM, OCOG Ba	CS_OFFL_SIR_NOPN_2_20211207T120632_20211207T120742_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_20211207T142714_20211207T142730_C001 and Backscatter Quality PLM. CCGC and the CoCGA Altimeter Range and Backscatter Quality Plags and the COCGA Altimeter Range and Backscatter Quality Plags and the COCGA Altimeter Range and Backscatter Quality Plags and the COCGA Altimeter Range and Backscatter Quality Plags and the COCGA Altimeter Range and Backscatter Quality Plags and the COCGA Altimeter Range and Backscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T144035_20211207T153110_C001 CCCG Altimeter Range Quality PLRM. CCG Gackscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T154115_20211207T154503_C001 CCCG Altimeter Range Quality PLRM. CCG Gackscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T154115_20211207T155215_C001 CCCG Altimeter Range Quality PLRM. CCG Gackscatter Quality Plags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160806_C001 CCCG Altimeter Range Quality PLRM. CCG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160806_C001 CCCG Altimeter Range Quality PLRM. CCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160806_C001 CCCG Altimeter Range Quality PLRM. CCG Altimeter Range Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T170503_C001 CCCG Altimeter Range Quality PLRM. CCG Altimeter Range Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_20211207T134334_20211207T134530_C001		
CS_OFFL_SIR_NOPN_2_20211207T153004_20211207T153110_C001 OCOG Backscatter Quality or more records. CS_OFFL_SIR_NOPN_2_20211207T153004_20211207T153110_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_20211207T154115_20211207T154503_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_20211207T155052_20211207T155215_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_20211207T160255_20211207T160808_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, QCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160808_C001 OCOG Altimeter Range Quality PLRM, QCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_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_20211207T174048_20211207T174210_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_20211207T142714_20211207T142730_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_20211207T153004_20211207T154503_C001 OCOG Backscatter Quality or more records. CS_OFFL_SIR_NOPN_2_20211207T154115_20211207T154503_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, COGG Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T155052_20211207T155052_20211207T155215_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160808_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_C001 OCOG Altimeter Range Q	CS_OFFL_SIR_NOPN_2_20211207T144325_20211207T144637_C001		
CS_OFFL_SIR_NOPN_2_20211207T15405_20211207T15403_0001 OCOG Backscatter Quality or more records. CS_OFFL_SIR_NOPN_2_20211207T155052_20211207T155215_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_20211207T160255_20211207T160808_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160808_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_20211207T170220_20211207T170503_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174632_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174632_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_20211207T153004_20211207T153110_C001		
CS_OFFL_SIR_NOPN_2_20211207T150052_20211207T15052_20211207T15052_5_0001 OCOG Backscatter Quality or more records. CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160808_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 PLRM CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174210_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T174210_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20211207T154115_20211207T154503_C001		
CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160808_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM The OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_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_20211207T174048_20211207T174210_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_20211207T174048_20211207T174210_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_20211207T155052_20211207T155215_C001		
CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_C001 OCOG Backscatter Quality or more records. CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_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_20211207T174048_20211207T174210_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_20211207T174258_20211207T174632_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20211207T160255_20211207T160808_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_202112071174048_202112071174210_C001 OCOG Backscatter Quality or more records. OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one	CS_OFFL_SIR_NOPN_2_20211207T170220_20211207T170503_C001		
	CS_OFFL_SIR_NOPN_2_20211207T174048_20211207T174210_C001		
	CS_OFFL_SIR_NOPN_2_20211207T174258_20211207T174632_C001		

CS_OFFL_SIR_NOPN_2_20211207T183221_20211207T183338_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_20211207T191836_20211207T192325_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_20211207T193307_20211207T193411_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_20211207T205859_20211207T210023_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_20211207T210120_20211207T210254_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_20211207T211501_20211207T211624_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_20211207T212141_20211207T212319_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_20211207T213248_20211207T213356_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_20211207T215150_20211207T215316_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_20211207T215832_20211207T220136_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_20211207T230729_20211207T230940_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_20211207T001634_20211207T002332_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_20211207T005225_20211207T005706_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_20211207T010627_20211207T010840_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_20211207T010843_20211207T010902_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_20211207T011140_20211207T011304_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_20211207T025252_20211207T025803_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_20211207T033933_20211207T034101_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_20211207T040857_20211207T041658_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_20211207T043037_20211207T043719_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_20211207T044313_20211207T044554_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_20211207T061113_20211207T061212_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_20211207T065646_20211207T065938_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_20211207T074642_20211207T074801_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_20211207T075005_20211207T075934_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_20211207T083604_20211207T083946_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_20211207T093025_20211207T093827_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_20211207T094030_20211207T094143_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_20211207T101602_20211207T101857_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_20211207T102856_20211207T103214_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_20211207T111110_20211207T111827_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_20211207T111830_20211207T111836_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_20211207T111839_20211207T111912_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_20211207T111951_20211207T112059_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_20211207T115433_20211207T115606_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_20211207T125015_20211207T125735_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_20211207T125925_20211207T130120_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_20211207T134132_20211207T134138_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_20211207T134531_20211207T135148_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_20211207T140458_20211207T140712_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_20211207T142930_20211207T143624_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_20211207T153110_20211207T153149_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_20211207T162940_20211207T163104_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_20211207T170503_20211207T170624_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_20211207T174738_20211207T175540_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_20211207T192325_20211207T193106_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_20211207T193142_20211207T193307_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_20211207T194103_20211207T194146_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_20211207T202254_20211207T202619_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_20211207T210023_20211207T210120_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_20211207T211432_20211207T211501_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_20211207T211625_20211207T211739_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_20211207T214836_20211207T215150_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211207T225509_20211207T225853_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_20211207T234224_20211207T234427_C001	Altimeter Bange 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 (1 Hz & 1Hz PLRM)

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

187

66

136

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

Number of products with errors:

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

9

1786

Number of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

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	190	190	2	188	0
SIR_NOPR1B	109	109	0	109	0
SIR_NOPN1B	96	96	3	93	0
SIR_NOPM_2	190	190	134	56	0
SIR_NOPR_2	109	109	27	78	4
SIR_NOPN_2	96	96	40	56	0

7.1 QCC Errors

Number of QCC reports with errors:

					Total number	of occurrences	of each error				
Product Type R	LOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPR_2	4	1	4	4	1	4					

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

7.2 QCC Warnings

Number of QCC reports with warnings

			i otai num	ber of occurrences of e	each warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR NOPM1B	188	0	0	0	0	0	0
SIR NOPM 2	0	0	42	41	0	46	0
SIR_NOPN1B	92	0	0	0	0	0	0
SIR_NOPN_2	0	0	11	29	5	25	26
SIR_NOPR1B	106	0	0	0	0	0	0
SIR_NOPR_2	0	4	41	49	5	30	21
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Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNO	CERPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	39	2	38	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	19	1	0	0	23	0	28
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	7	0	0	47	0	59	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
Product Type SIR_NOPM1B	0	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF 0	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF 0
SIR_NOPM1B SIR_NOPM_2	0 29	RPEPOPSARNCDF 0 0	RPEPOPSINNCDF 0 0	RSSBCONCDF08		RSSHAOFDPLRMNCDF 0 0	RSSHAONCDF 0 5
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B	0	RPEPOPSARNCDF 0 0 0	RPEPOPSINNCDF 0 0 0	RSSBCONCDF 0 8 0	0	0 0 0	0 5 0
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2	0 29	RPEPOPSARNCDF 0 0 0 0 0 0	RPEPOPSINNCDF 0 0 0 25	RSSBCONCDF 0 8 0 16	0 30	0	RSSHAONCDF 0 5 0 26
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2 SIR_NOPR1B	0 29 0	0 0 0 0 0 0	0 0 0	0 8 0 16 0	0 30 0 37 0	0 0 0 50 0	0 5 0 26 0
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2	0 29 0 0	RPEPOPSARNCDF 0 0 0 0 0 0 51	0 0 0	0 8 0 16	0 30 0 37	0 0 0 50	0 5 0
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2 SIR_NOPR1B SIR_NOPR_2	0 29 0 0 0 0 0	0 0 0 0 0 51	0 0 25 0 0	0 8 0 16 0 3	0 30 0 37 0 68	0 0 0 50 0 40	0 5 0 26 0 8
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPR12 SIR_NOPR1B SIR_NOPR_2 Product Type	0 29 0 0 0 0 0 8 8 8 8 9 8 9 9 9 9 9 9 9 9	0 0 0 0 0 0	0 0 25 0 0	0 8 0 16 0	0 30 0 37 0	0 0 0 50 0	0 5 0 26 0
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN_2 SIR_NOPR1B SIR_NOPR_2 Product Type SIR_NOPM1B	0 29 0 0 0 0 0 8 8 8 8 8 9 0 0 7 8 9 9 0 7 8 9 9 0 0 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 0 0 0 0 51	0 0 25 0 0	0 8 0 16 0 3	0 30 0 37 0 68	0 0 0 50 0 40	0 5 0 26 0 8
SIR_NOPM1B SIR_NOPM2 SIR_NOPN1B SIR_NOPN12 SIR_NOPR1B SIR_NOPR2 Product Type SIR_NOPM1B SIR_NOPM2	0 29 0 0 0 0 0 0 0 RSWHOEPFDNCDF 0 33	0 0 0 0 0 51	0 0 25 0 0	0 8 0 16 0 3	0 30 0 37 0 68	0 0 0 50 0 40	0 5 0 26 0 8 SCSTODHRNCDF 0 0
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN2 SIR_NOPR1B SIR_NOPR_2 Product Type SIR_NOPM1B SIR_NOPM_2 SIR_NOPM1B	0 29 0 0 0 0 0 0 0 33 0	0 0 0 0 0 0 0 0 0 5 1	0 0 25 0 0	0 8 0 16 0 3	0 30 0 37 0 68	0 0 0 50 0 40	0 5 0 26 0 8
SIR_NOPM1B SIR_NOPM_2 SIR_NOPM_2 SIR_NOPN2 SIR_NOPR1B SIR_NOPR2 SIR_NOPM1B SIR_NOPM_2 SIR_NOPM1B SIR_NOPN1B SIR_NOPN_2	0 29 0 0 0 0 0 0 RSWHOEPFDNCDF 0 33 0 26	0 0 0 0 0 51	0 0 25 0 0	0 8 0 16 0 3	0 30 0 37 0 68	0 0 0 50 0 40	0 5 0 26 0 8 8 SCSTODHRNCDF 0 0 47 0
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B SIR_NOPN2 SIR_NOPR1B SIR_NOPR_2 Product Type SIR_NOPM1B SIR_NOPM_2 SIR_NOPM1B	0 29 0 0 0 0 0 0 0 33 0	0 0 0 0 0 0 0 0 0 5 1	0 0 25 0 0	0 8 0 16 0 3	0 30 0 37 0 68	0 0 0 50 0 40	0 5 0 26 0 8 SCSTODHRNCDF 0 0

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: between -70 and 70 degrees
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitude: 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	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSIN	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMN CDF	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
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
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

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Number of products with missing QCC reports:

0