

QA4EO Daily Report for NOP data:

<u>15/11/2022</u>

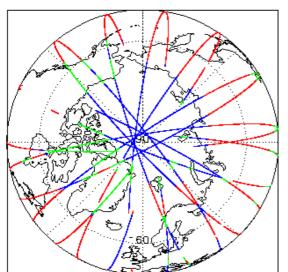
IDEAS-QA4E®

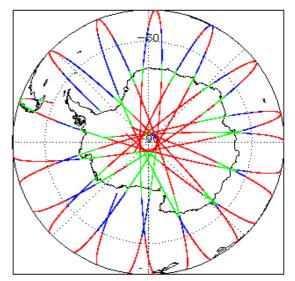
Demont Draduation.	10 Nov 0000	Check	L1 & L2
Report Production:	16-Nov-2022	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Usea:		Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	Product Format Check	Nominal
		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 7.2

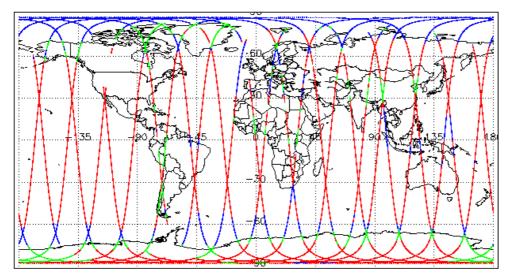
1. Overview

-	Mission / Instrument News		
	14-Nov-2022	None	
	15-Nov-2022	None	
	16-Nov-2022	Nothing planned	











3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc). 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 I1b_proc_flag_hr flag is currently set all L1B	NOPR and NOPN products because the	e I1b_processing_quality_hr field is not correctly configured in the OSAR and			
OSARIn chains. A modification is required in the next release.					
Number of products with errors: 0					
4.3 L1B Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-de	etermined baseline and also to check the	e validity of Auxiliary Data Files is correct.			
> Dynamic Atmospheric Correction: The DAC is missing in all products because	e the auxiliary files required are not avai	lable in time for processing. This known and expected behaviour.			
Number of products with errors: 0					
4.4 L1B Auxiliary Correction Error Check					
CryoSat L1B data includes a correction error flag for each measurement record. T	The bit value of this flag indicates any pro	blems when set			
Number of products with errors: 0					
·					
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag for each measuremen	t record. The bit value of this flag indicat	es any problems when set.			
> Attitude Correction Missing: This flag is currently set in error for NOPR produ updated in the next SW update.	cts due to a configuration issue. The atti	tude correction is not actually missing, This is being investigated and will be			
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. T	he hit value of this flag indicates any pro	blems when set			
> Loss of Echo Flag: This flag is currently set for occasional products over land,		beins when set.			
Number of products with errors: 19					
•	Table Falls d	Description			
Product CS_OFFL_SIR_NOPM1B_20221115T132655_20221115T135334_C001	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPM1B_20221115T144452_20221115T144714_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPM1B_20221115T214335_20221115T215400_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPM1B_20221115T223401_20221115T223808_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T031849_20221115T031913_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T095502_20221115T095610_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T101722_20221115T102333_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T102822_20221115T103252_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T104821_20221115T105009_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T113419_20221115T114014_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T145632_20221115T150039_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T212413_20221115T212607_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPN1B_20221115T225957_20221115T230509_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPR1B_20221115T032802_20221115T032959_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPR1B_20221115T041022_20221115T041424_C001	Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPR1B_20221115T121515_20221115T121708_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPR1B_20221115T161435_20221115T161522_C001 CS_OFFL_SIR_NOPR1B_20221115T171223_20221115T171558_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
CS_OFFL_SIR_NOPR1B_20221115T212630_20221115T213319_C001	Loss of Echo	The tracking echo is missing for one or more records			
5. NOF	Level 2 Data Quality C	heck			
5.1 L2 Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to ens	ure it consists of both an XML beader file	e (HDR) and a NetCDE product file (nc)			
•					
	Number of products with errors: 0				
5.2 L2 Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.					
Number of products with errors: 0					
5 3 2 Auxiliary Data File Usage Check					
5.3 L2 Auxiliary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-du	etermined baseline and also to check the	e validity of Auxiliary Data Files is correct.			
Nind Model File Usage: This file is currently not included in all L2 products.					
Number of products with errors: 0					
5.4 L2 Auxiliary Correction Error Check					
For all products, the auxiliary corrections within the Geophysical Group are check	ed 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,					
ollowed 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.

Number of products with errors: 42

SIG 041. Bit Model: 2 add21113121-032 0221110121640 0001 Math Dynamic Topography (III) There is an end in Math Dynamic Topography high for our end topography (III) SIG 041. Bit Model: 2 add2111310640 200111010162 0001 Math Dynamic Topography (III) There is an end in Math Dynamic Topography high for our end topography (III) SIG 041. Bit Model: 2 add2111310640 200111010162 0001 Math Dynamic Topography (III) There is an end in Math Dynamic Topography (III) SIG 041. Bit Model: 2 add2111310640 200111010162 0001 Math Dynamic Topography (III) There is an end in Math Dynamic Topography (III) SIG 041. Bit Model: 2 add21113106401, 2 add21116106410. D001 Math Dynamic Topography (III) There is an end in MASD Topography tagit for our end topography (III) SIG 041. Bit Model: 2 add21113106401, 2 add21116106410. D001 Math Dynamic Topography (III) There is an end in MASD Topography tagit for our end topography (III) SIG 041. Bit Model: 2 add21113106401, 2 add21113106401, 2 add21113064001, 2 add21113064001, 2 add211140064001, 2 add211140064000, 2 add211140064000, 2 add21114006400, 2 add			
Count of an and provide a specific transmission Network provide transmission Network provide transmission 60, 0FB, SER, MER, MER, MER, MER, SER, MER, SER, SER, SER, SER, SER, SER, SER, S	Product	Test Failed	Description
Backgroup Teorgraph () Teorgraph () Teorgraph () Teorgraph () G GHL SHR MCHN 2 AD2111010001H 20011101001H 20011 Read Sod (Read Char American Sod (Read	CS_OFFL_SIR_NOPM_2_20221115T214335_20221115T215400_C001	Mean Dynamic Topography (1)	
Number Construction Tensorative (1) Tensorative (1) Tensorative (1) CS GFL SIR NORM 2 setzet1151122202 AD21115116412.001 March Dyamic Tensorative (1) The same and the March Dyamic Tensorative (1) CS GFL SIR NORM 2 setzet1151122202 AD21115116412.001 March Dyamic Tensorative (1) The same and the March Dyamic Tensorative (1) CS GFL SIR NORM 2 setzet1151122201 AD21115116412.001 March Dyamic Tensorative (1) The same and the March Dyamic Tensorative (1) CS GFL SIR NORM 2 setzet1151122201 AD21115116412.001 March Dyamic Tensorative (1) The same and the March Dyamic Tensorative (1) CS GFL SIR NORM 2 setzet115112221 AD211151164221.00211151172221.001 March Bas Mindow (1) March Dyamic Tensorative (1) The same and the March Dyamic Tensorative (1) CS GFL SIR NORM 2 setzet115112221 AD211151164221.001 March Bas Mindow (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) The same and tensorative (1) March Dyamic Tensorative (1) March Dyamic Tensorative (1) March Dyamic Tensorative (1) The same and tenso	CS_OFFL_SIR_NOPN_2_20221115T004112_20221115T004346_C001		
00,0000_000000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20221115T005106_20221115T005249_C001		
Color List Mich Value Marci Data List Michael Color Marci Data List Michael Color The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREE_NOPPL_TREETHINGSON_DESCHIPTION The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTION The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTION The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTION The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTION The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTIONS The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTIONS The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTIONS The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTIONS The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTIONS The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHINGSON_DESCHIPTIONS The site of early with the VSD height field on the Marc Dynamic CS_OPPL_SE_NOPPL_TREETHI	CS_OFFL_SIR_NOPN_2_20221115T023006_20221115T023143_C001	Mean Dynamic Topography (1)	
CS UPL Bit NOPN 2 40211151168068 (20211151168067 1001) Trospapely (0) Trospapely (0) Trospapely (0) CS UPL Bit NOPN 2 40211151168061 20211151168061 2001 Trospapely (0) Trospapely (0) Trospapely (0) CS UPL Bit NOPN 2 40211151168061 20211151168061 2001 Trospapely (0) Trospapely (0	CS_OFFL_SIR_NOPN_2_20221115T040013_20221115T040130_C001	Mean Dynamic Topography (1)	
S. OFTL BIN NORN 2. 202211157105001.002211157105001.002 Instrugently 11, Total Societtin Columnation Provide Technology	CS_OFFL_SIR_NOPN_2_20221115T053934_20221115T054051_C001		
Start Traggraphy (1) Traggraphy (1) Traggraphy (1) Traggraphy (1) GS_OFFL_SIR_NOPN_2_0021115T02206_0021115T02206_0021 March Sas Surface (1), Mann Dynamic Trans and with the MSD height (solution 1) for own or more secrets. GS_OFFL_SIR_NOPN_2_00221115T00206_00201 March Sas Surface (1), Mann Dynamic Trans and with the MSD height (solution 1) and the Mann Dynamic GS_OFFL_SIR_NOPN_2_00221115T102052_0021115T00252_0021115T00252_0021115T10222 Color Trans and with the MSD height (solution 1) and the MSD Dynamic GS_OFFL_SIR_NOPN_2_00221115T102052_0021115T102252_0011 Trans and with the MSD height (solution 1) and the MSD Dynamic GS_OFFL_SIR_NOPN_2_00221115T102052_0021115T113401_0001 Trans and with the MSD height (solution 1) and the MSD Dynamic Trans and MSD MED_20021115T113401_0001 March Sas Surface (1), Mann Dynamic Trans and with the MSD height (solution 1) the Mean Dynamic GS_OFFL_SIR_NOPN_2_00221115T113401_0001 March Sas Surface (1), Mann Dynamic Trans and with the MSD Theight (solution 1) and the MEan Dynamic GS_OFFL_SIR_NOPN_2_00221115T113401_0001 Mean Sas Surface (1), Mann Dynamic Trans and with the MSD Theight (solution 1) and the MEan Dynamic GS_OFFL_SIR_NOPN_2_00221115T113404_0001 Mean Sas Surface (1), Mann Dynamic Trans and with the MSD Theight (solution 1) and the MEan Dynamic GS_OFFL_SIR_NOPN_2_0022	CS_OFFL_SIR_NOPN_2_20221115T054601_20221115T054913_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
Hear, Bas, Surface, Mark, Surface, Surf	CS_OFFL_SIR_NOPN_2_20221115T072031_20221115T072307_C001		
CS_OFL_SIN_NOPN_2_202211511051858_022021115110850_0001 Trapagraphy (1) Trapagraphy (1) Trapagraphy (1) CS_OFFL_SIN_NOPN_2_202211151108550_2021115110850_0001 Mean Sex Surface (1). Mean Dynamic Trapagraphy (1) Transition and the KSS height (clubton 1) and the Mean Dynamic Trapagraphy (1) CS_OFFL_SIN_NOPN_2_202211151108252_20201 Mean Sex Surface (1). Mean Dynamic Trapagraphy (1) Transition and the KSS height (clubton 1), mc Mean Dynamic Trapagraphy (1) CS_OFFL_SIN_NOPN_2_202211151108252_0001 Mean Sex Surface (1). Mean Dynamic Trapagraphy (1) Transition and the KSS height (clubton 1), mc Mean Dynamic Trapagraphy (1) CS_OFFL_SIN_NOPN_2_202211151108162_202211151112828_20001 Mean Dynamic Trapagraphy (1) Transition and the KSS height (clubton 1), mc Mean Dynamic Trapagraphy (1) CS_OFFL_SIN_NOPN_2_202211151131641_2022_201115112828_20001 Mean Dynamic Trapagraphy (1) Transition and mean dynamic Trapagraphy (1) CS_OFFL_SIN_NOPN_2_20221115113668_20221115113668_20001 Mean Dynamic Trapagraphy (1) Transition and mean dynamic Trapagraphy (1) CS_OFFL_SIN_NOPN_2_20221115113668_20221115113668_20001 Mean Dynamic Trapagraphy (1) Transition and mean dynamic Trapagraphy height (clubton 1) and the Value Dynamic Trapagraphy (1) CS_OFFL_SIN_NOPN_2_20221115113668_20221115113668_20001 Mean Dynamic Trapagraphy (1) Transition and mean dynamic Trapagraphy height (clubton 1) and the Mean Dynamic Trapagraphy (1) Transition and mean dynamic Trapagraphy h	CS_OFFL_SIR_NOPN_2_20221115T072505_20221115T073039_C001		
CS_DFIL_SH_NOPL_2.00211151108000_2002111571103252_0001 Topography (n) Topography (n) CS_OFFL_SIR_NOPL_2_002111571102822_022111571103252_0001 Topography (n) The is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPL_2_002111571102822_022111571102822_0001 Topography (n) The is an error with the MSS height (solution 1), the Nean Dynamic Topography (n) CS_OFFL_SIR_NOPL_2_002111571120302_0001 Mean Dynamic Topography (n) There is an error with the MSS height (solution 1) and the Data Concentric Oxen Tole (GOT) CS_OFFL_SIR_NOPL_2_0022111571120302_0001 Mean Dynamic Topography (n) There is an error with the MSS height (solution 1) and the Data Concentric Oxen Tole (GOT) CS_OFFL_SIR_NOPL_2_002211157113046_0001 Mean Set Sutation (1), that decorrentic Oxen Tole error with the Mean Dynamic Topography (n) There is an error with the Mean Dynamic Topography height (solution 1) and the Data Goodenic Concent Tole (GOT) CS_OFFL_SIR_NOPN_2_002211157113046_0001 Mean Set Sutation (1) that Goodenic Concent Tole (GOT) There is an error with the MSS height (solution 1) and the Total Goodenic Concent Tole (GOT) CS_OFFL_SIR_NOPN_2_0022111571154046_0022111571154016_0001 Mean Set Sutation (1) Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Data Goodenic Concent Tole (GOT) CS_OFFL_SIR_NOPN_2_0022111571154046_0022111571154016_0001 Mean Set Sutation (1) Mean Dynamic Topography (1)	CS_OFFL_SIR_NOPN_2_20221115T081555_20221115T082050_C001		
GS_OFFL_SIR_NOPN_2_20221115T102652_2021115T102552_0001 Troppography (1) The is an error with the MSS height (solution 1), the Mean Dynamic Teoprography (solution 1), and the table connections for one or more records to the MSS height (solution 1) and the table connections for one or more records to the MSS height (solution 1), the Mean Dynamic Teoprography (solution 1), and the table connections for one or more records to the MSS height (solution 1), the Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), the Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), the Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), the Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), the Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), the Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), and the MSS height (solution 1) and the MSS height (solution 1) and the MSS height (solution 1) and the Masn Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Statistics (1), Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Mean Dynamic Teoprography (1), Trait decountic Ocean Tide Mean Dynamic Teoprography height (1), Trait Decountic Ocean Tide Mean Dynamic Teoprography (1), Trait decountic Teoprography (1), Trait decountic Ocean Tide Statis (1), Mean Dynamic Teoprography (1), Trait de	CS_OFFL_SIR_NOPN_2_20221115T095502_20221115T095610_C001		
CS_OFFL_SIR_NOPN_2_20221115T112419_20221115T1124014_0001 Topography (1) Total Geoemic Ocean Tide height (solution 1) and the Total Geoemic Decan Tide height (solution 1) and the Total Geoemic Decan Tide height (solution 1) and the Man Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20221115T122706_20221115T131644_0001 Mean Dynamic Topography (1) There is an error with the Man Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20221115T136536_20221115T136516_0001 Mean Sea Surface (1), Mean Dynamic Topography height footing 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T136566_02221115T150039_0001 Mean Sea Surface (1), Total Geoemic Topography height (solution 1) and the Man Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T155066_02221115T1510039_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T17559_00221115T171020_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T171559_00221115T1715020_0001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T11510680_022021115T1160807_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T160803_02221115T180807_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records	CS_OFFL_SIR_NOPN_2_20221115T102822_20221115T103252_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
CS_OFFL_SIR_NOPN_2_20221115T122063_20221115T13644_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_20221115T13658_20221115T136648_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20221115T135638_20221115T136618_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20221115T135646_20221115T136018_C001 Mean Sea Surface (1), Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20221115T135646_20221115T146016_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_NOPN_2_20221115T113419_20221115T114014_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
CS_DFPL_SIR_NOPN_2_20221115113643_21221115113644_2001 Topggraphy (1) Topggraphy height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T135646_20221115T135646_20021 Mean Dynamic Topggraphy (1) There is an error with the MSS height (solution 1) and the Total Geocentric Topggraphy Legit (solution 1) and the Total Geocentric Topggraphy (1) CS_OFFL_SIR_NOPN_2_20221115T153646_20221115T154016_C001 Mean Sea Surface (1), Mean Dynamic Topggraphy (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topggraphy (1) CS_OFFL_SIR_NOPN_2_20221115T153646_20221115T154016_C001 Mean Sea Surface (1), Mean Dynamic Topggraphy height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T153646_20221115T172658_C001 Mean Sea Surface (1), Mean Dynamic Topggraphy height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_20221115T12663_0221115T172658_C001 Mean Sea Surface (1), Mean Dynamic Topggraphy (1) There is an error with the MSS height (solution 1) or on or more records CS_OFFL_SIR_NOPN_2_20221115T12663_0221115T12669_C001 Mean Sea Surface (1), Mean Dynamic Topggraphy (1) There is an error with the MSS height (solution 1) or on or more records CS_OFFL_SIR_NOPN_2_20221115T180680_202221115T180680_C001 Mean Dynamic Topggraphy (1) There is an error with the Mean Dynamic Topggraphy (1) There is an error with the Mean Dynamic Topggraphy height for one or more records CS_OFFL_SIR_NOPN_2_20221115T180680_20221115T180640_C001	CS_OFFL_SIR_NOPN_2_20221115T122706_20221115T122932_C001	Mean Dynamic Topography (1)	
US_DFR_SIR_NOPN_2_20221115T13566_20221115T135039_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_20221115T145632_20221115T145632_20221115T150039_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1)	CS_OFFL_SIR_NOPN_2_20221115T131433_20221115T131644_C001		
Ocean Tide (GOT) Ocean Tide (GOT) Ocean Tide height (solution 1: GOT) for one or more records CS_OFFL_SIR_NOPN_2_20221115T153846_20221115T154016_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T17259_02021115T172558_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T172543_20221115T172558_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T190863_20221115T180807_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T190335_20221115T190444_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T204326_2021115T204326_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T212413_20221115T212607_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T212607_2022111	CS_OFFL_SIR_NOPN_2_20221115T135636_20221115T135818_C001	Mean Dynamic Topography (1)	
CS_DFFL_SIR_NOPN_2_20221115T173594_20221115T171920_0001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T171559_20221115T1715258_2001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mass height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T172434_20221115T172558_2001 Mean Dynamic Topography (1) There is an error with the Mass height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T180630_20221115T180630_2002 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mass height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T190335_20221115T190444_C001 Mean Dynamic Topography (1) There is an error with the Mass height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T2124036_20221115T212432_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T212432_202011 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T212407_20221115T212607_20221115T212607_2001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T212607_20221115T212606_C001 Mean Dynamic Topography (1), Total Geoernitic Occan Tide (Sol	CS_OFFL_SIR_NOPN_2_20221115T145632_20221115T150039_C001		There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OPFL_SIR_NOPN_2_202211151171539_2022111511715258_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202211151172434_202211151172558_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_202211151180630_202211151180680_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 height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202211151180630_202211151204232_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 height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202211157214413_2022111572140432_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_202211157212607_202211157212607_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (COT), Total Geocentric Ocean Tide (COC	CS_OFFL_SIR_NOPN_2_20221115T153646_20221115T154016_C001		
CS_OFFL_SIR_NOPN_2_20221115T180630_20221115T180807_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T190335_20221115T190444_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T190335_20221115T190444_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20221115T2124036_20221115T204232_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T212407_20021115T212607_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20221115T212607_20221115T212603_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (SOLION 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_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_20221115T013308_20221115T013328_20C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more recor	CS_OFFL_SIR_NOPN_2_20221115T171559_20221115T171920_C001		
CS_OFFL_SIR_NOPN_2_202211151180630_202211151180607_0001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T190335_20221115T190444_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_20221115T204036_20221115T204232_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T212413_20221115T212607_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_20221115T212607_20221115T212607_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_20221115T212607_20221115T212630_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) for one or more records CS_OFFL_SIR_NOPN_2_20221115T225957_20221115T23509_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	CS_OFFL_SIR_NOPN_2_20221115T172434_20221115T172558_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20221115T190444_2001 Invert ropography (1) more records CS_OFFL_SIR_NOPN_2_20221115T204036_20221115T204232_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_20221115T212413_20221115T212607_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20221115T212607_20221115T212630_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_20221115T212607_20221115T212630_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_20221115T21525957_20221115T230509_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (SOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (SOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide (SOT and 2: FES) and the Non-Georgraphy (1) CS_OFFL_SIR_NOPN_2_20221115T03308_20221115T014325_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) for one or more records CS_OFFL_SIR_NOPR_2_20221115T03308_20221115T014325_C001 Mean Sea Surface (1), Mean Dynamic Th	CS_OFFL_SIR_NOPN_2_20221115T180630_20221115T180807_C001		
CS_OFFL_SIR_NOPN_2_202211151204232_0001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T212413_20221115T212607_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_20221115T212607_20221115T212630_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FCS), Non-Equilibrium Long Period Ocean Tide (FCS), Non-Equilibrium Long Period Ocean Tide (FCS), Non-Equilibrium Long Period Ocean Tide for one or more records There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_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_20221115T03308_20221115T014325_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20221115T013308_20221115T014325_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20221115T0331849_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)	CS_OFFL_SIR_NOPN_2_20221115T190335_20221115T190444_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_202211151212413_202211151212607_200211151212607_20001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T212607_20221115T212630_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (solution 1: GOT and 2: FES) and the Non- Equilibrium Long Period Ocean Tide (S_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non- Equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_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_20221115T013308_20221115T014325_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_20221115T0131117_20221115T0131849_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_20221115T204036_20221115T204232_C001		
CS_OFFL_SIR_NOPN_2_202211151212607_202211151212630_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20221115T225957_20221115T230509_C001 Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Mean Dynamic Topography (solution 1): GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_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_20221115T013308_20221115T014325_C001 Mean Sea Surface (1), Mean Dynamic 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_20221115T0131849_C001 Mean Sea Surface (1), Mean Dynamic 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_20221115T212413_20221115T212607_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20221115T225957_20221115T230509_C001 Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (Solution 1: GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide There is an error with the Mean Dynamic Topography (solution 1: GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_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_20221115T013308_20221115T014325_C001 Mean Sea Surface (1), Mean Dynamic 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_20221115T031117_20221115T031849_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_20221115T212607_20221115T212630_C001		
CS_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_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_20221115T013308_20221115T014325_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_20221115T013308_20221115T014325_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20221115T031117_20221115T031849_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1)	CS_OFFL_SIR_NOPN_2_20221115T225957_20221115T230509_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non-
CS_OFFL_SIR_NOPR_2_202211151013308_202211151014325_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPN_2_20221115T234947_20221115T235245_C001		
	CS_OFFL_SIR_NOPR_2_20221115T013308_20221115T014325_C001		
	CS_OFFL_SIR_NOPR_2_20221115T031117_20221115T031849_C001		

CS_OFFL_SIR_NOPR_2_20221115T032802_20221115T032959_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_20221115T085426_20221115T085934_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_20221115T094827_20221115T095100_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_20221115T095100_20221115T095502_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_20221115T112802_20221115T112906_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_20221115T130939_20221115T131432_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_20221115T144714_20221115T145632_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_20221115T162729_20221115T163524_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_20221115T180807_20221115T181519_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_20221115T194715_20221115T195428_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_20221115T210159_20221115T210413_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_20221115T212630_20221115T213319_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_20221115T230509_20221115T231208_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20 Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

5.6 L2 Measurement Quality Flag	Check

L2 Quality Flags (20 Hz)

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

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

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

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

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Number of	products with errors:
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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20221115T001604_20221115T003708_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_20221115T003749_20221115T003843_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_NOPM_2_20221115T004346_20221115T004716_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_20221115T004738_20221115T005106_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20221115T005444_20221115T012214_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_NOPM_2_20221115T015414_20221115T021803_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_NOPM_2_20221115T022131_20221115T022630_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_20221115T022638_20221115T023006_C001	o 1 ,	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20221115T023510_20221115T030802_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPM_2_20221115T032025_20221115T032244_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

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPM_2_20221115T033329_20221115T033504_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_20221115T035319_20221115T035605_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_20221115T040130_20221115T040703_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_20221115T041424_20221115T044701_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_20221115T044710_20221115T044740_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_20221115T050001_20221115T050118_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_20221115T051930_20221115T053514_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_20221115T054051_20221115T054600_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_20221115T055257_20221115T062733_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_20221115T065038_20221115T065508_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_20221115T065554_20221115T071333_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_20221115T073237_20221115T074631_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_20221115T074752_20221115T074926_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_20221115T075407_20221115T080326_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_20221115T080328_20221115T080539_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_20221115T082103_20221115T083847_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_20221115T084021_20221115T085426_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_20221115T090518_20221115T090918_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_20221115T091120_20221115T092631_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_20221115T092836_20221115T093759_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_20221115T094323_20221115T094328_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_20221115T095610_20221115T095714_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_20221115T100047_20221115T101702_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_20221115T101709_20221115T101722_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_20221115T102334_20221115T102821_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_20221115T103252_20221115T103542_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_20221115T104017_20221115T104821_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_20221115T105117_20221115T110544_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_20221115T111358_20221115T111529_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_20221115T114141_20221115T115248_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_20221115T115250_20221115T121515_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_20221115T121857_20221115T122104_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_20221115T122134_20221115T122706_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_20221115T123117_20221115T125453_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_20221115T132655_20221115T135334_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_20221115T140106_20221115T140550_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_20221115T140614_20221115T140704_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_20221115T141025_20221115T142922_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_20221115T144452_20221115T144714_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_20221115T150039_20221115T153210_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_20221115T154016_20221115T154547_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_20221115T154943_20221115T155336_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_20221115T162441_20221115T162729_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_20221115T163927_20221115T171223_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_20221115T171920_20221115T172433_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_20221115T173005_20221115T174615_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_20221115T181546_20221115T183828_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_20221115T183845_20221115T185110_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_20221115T185503_20221115T185920_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_20221115T185939_20221115T190334_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_20221115T190834_20221115T194204_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_20221115T194321_20221115T194606_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_20221115T195428_20221115T195644_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_20221115T195648_20221115T200858_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_20221115T201340_20221115T201739_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_20221115T201835_20221115T203056_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_20221115T203302_20221115T203820_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_20221115T204856_20221115T210159_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_20221115T210413_20221115T212059_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_20221115T214335_20221115T215400_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_20221115T215540_20221115T220928_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_20221115T221229_20221115T221732_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_20221115T221739_20221115T221750_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_20221115T221756_20221115T221911_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_20221115T223401_20221115T223808_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_20221115T224437_20221115T224752_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_20221115T224915_20221115T225625_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_20221115T232802_20221115T234823_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_20221115T235245_20221115T235650_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_20221115T033505_20221115T033528_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_20221115T033856_20221115T034007_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_20221115T040013_20221115T040130_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_20221115T054601_20221115T054913_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_20221115T081002_20221115T081025_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_20221115T161800_20221115T161851_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_20221115T222710_20221115T222805_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_20221115T225957_20221115T230509_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_20221115T235650_20221115T235656_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_20221115T235705_20221115T235711_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_20221115T050251_20221115T050548_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_20221115T071333_20221115T072031_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_20221115T213321_20221115T213336_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_20221115T215401_20221115T215540_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20221115T001224_20221115T001540_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_20221115T004112_20221115T004346_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_20221115T014345_20221115T014425_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_20221115T022001_20221115T022131_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_20221115T023006_20221115T023143_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_20221115T033856_20221115T034007_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_20221115T034024_20221115T034209_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_20221115T040013_20221115T040130_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_20221115T050554_20221115T050625_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_20221115T051740_20221115T051930_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_20221115T053934_20221115T054051_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_20221115T054601_20221115T054913_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_20221115T072031_20221115T072307_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_20221115T072505_20221115T073039_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_20221115T090918_20221115T091056_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_20221115T101722_20221115T102333_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_20221115T104821_20221115T105009_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_20221115T111529_20221115T111906_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_20221115T111954_20221115T112008_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_20221115T113419_20221115T114014_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_20221115T122706_20221115T122932_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_20221115T130910_20221115T130939_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_20221115T135636_20221115T135818_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_20221115T140704_20221115T140827_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_20221115T145632_20221115T150039_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_20221115T153646_20221115T154016_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_20221115T154548_20221115T154704_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_20221115T160453_20221115T160612_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_20221115T171559_20221115T171920_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_20221115T172434_20221115T172558_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_20221115T174615_20221115T174940_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_20221115T180630_20221115T180807_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_20221115T185309_20221115T185503_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_20221115T204036_20221115T204232_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_20221115T221040_20221115T221229_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_20221115T223106_20221115T223356_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_20221115T225625_20221115T225747_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_20221115T225957_20221115T230509_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_20221115T232102_20221115T232440_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_20221115T235913_20221116T000203_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_20221115T003843_20221115T004112_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_20221115T005249_20221115T005444_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_20221115T013308_20221115T014325_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_20221115T023143_20221115T023510_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_20221115T030942_20221115T031011_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_20221115T031117_20221115T031849_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_20221115T032245_20221115T032402_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_20221115T035606_20221115T040013_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_20221115T041022_20221115T041424_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_20221115T050802_20221115T051028_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_20221115T051059_20221115T051110_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_20221115T053514_20221115T053934_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_20221115T054913_20221115T055256_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_20221115T071333_20221115T072031_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_20221115T074631_20221115T074751_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_20221115T080846_20221115T081002_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_20221115T083847_20221115T084021_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_20221115T085426_20221115T085934_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_20221115T094827_20221115T095100_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_20221115T095100_20221115T095502_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_20221115T110544_20221115T111230_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_20221115T111230_20221115T111358_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_20221115T130813_20221115T130910_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_20221115T130939_20221115T131432_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_20221115T135334_20221115T135636_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_20221115T144345_20221115T144452_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_20221115T144714_20221115T145632_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_20221115T153211_20221115T153646_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_20221115T154704_20221115T154943_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_20221115T162023_20221115T162329_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_20221115T162729_20221115T163524_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_20221115T163727_20221115T163842_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_20221115T172558_20221115T173005_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_20221115T180432_20221115T180630_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_20221115T180807_20221115T181519_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_20221115T183828_20221115T183845_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_20221115T185111_20221115T185309_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_20221115T190444_20221115T190834_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_20221115T194715_20221115T195428_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_20221115T201739_20221115T201835_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_20221115T204232_20221115T204855_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_20221115T212100_20221115T212413_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_20221115T224435_20221115T224437_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_20221115T230509_20221115T231208_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

169

61

132

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

Number of	products with errors:	

5.7 L2 Ocean Retracking Quality Check		

L2 Retracking Flags (20 Hz)

CryoSat L2 data includes an ocean retracking quality flag for each 20 Hz measurement record.	The bit value of this flag indicates any problems when set.
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> Ocean Retracking Quality Flag: This flag is currently set for products falling at ocean/ land boundaries, but this is expected.

0

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	197	197	6	191	0
SIR_NOPR1B	101	101	0	101	0
SIR_NOPN1B	100	100	1	99	0
SIR_NOPM_2	197	197	144	53	0
SIR_NOPR_2	101	101	29	72	0
SIR_NOPN_2	100	100	40	60	0

7.1 QCC Errors

Number of QCC reports with errors:

7.2 QCC Warnings

Number of QCC report	per of QCC reports with warnings 1729						
Total number of occurrences of each warning							
Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF
SIR_NOPM1B	191	0	0	0	0	0	0

SIR_NOPM_2	0	40	39	0	46	0	38
SIR NOPN1B	95	0	0	0	0	0	0
SIR NOPN 2	0	11	30	5	24	28	16
SIR NOPR1B	97	0	0	0	0	0	0
SIR_NOPR_2	0	37	44	2	35	24	11
	-						*
Product Type	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	34	0	0	0	0	30
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	0	24	0	31	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	2	0	44	0	55	0	0
	·						
Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	2	28	0	5	36
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	27	15	38	52	26	25
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	45	0	2	61	36	8	40
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_NOPM1B	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD 0	SCSTODHRNCDF	SCSTODNCDF 0	-
SIR_NOPM1B SIR_NOPM_2	0	RSWHOEPNCDF 0 5	SPHRTASCNSNCDF 1 1	SOOHHIFHD 0 0	0 0	SCSTODNCDF 0 0	•
SIR_NOPM1B	0 0 0	RSWHOEPNCDF 0 5 0	SPHRTASCNSNCDF 1 1 0	SOOHHIFHD 0 0 0	SCSTODHRNCDF 0 0 44	SCSTODNCDF 0 0 1	-
SIR_NOPM1B SIR_NOPM_2	0	RSWHOEPNCDF 0 5 0 11	SPHRTASCNSNCDF 1 1 0 0 0	SOOHHIFHD 0 0 0 0 2	0 0	SCSTODNCDF 0 0 1 0	-
SIR_NOPM1B SIR_NOPM_2 SIR_NOPN1B	0 0 0	RSWHOEPNCDF 0 5 0 11 0	SPHRTASCNSNCDF 1 0 0 0 0	SOOHHIFHD 0 0 2 0	0 0	SCSTODNCDF 0 0 1 0 5	•

Instruction of the state of the st	Test Description Key:						
MVIOEPENNODF MusingValueInt/OceanExcludingPolar/ED2NetCDF The value should not be a missing value for surface type 0 only for talfactes between -70 and 70 degrees MVIOEPNODF MusingValueInt/OceanExcludingPolar/POlar/ED2NetCDF The value should not be a missing value for surface type 0 only for talfactes bype - ocean for latitudes MVIOEPFONDF RangeBackszatterSigmaZeroOPOceanExcludingPolar/ED2NetCDF The backszatter sigmaZeroUPOceanExcludingPolar/ED2PLRNNetCDF RBSZOPOEPFDELRM RangeBackszatterSigmaZeroOPOceanExcludingPolar/ED2PLRNNetCDF The backszatter sigmaZeroUPOceanExcludingPolar/ED2PLRNNetCDF RBSZOPOEPFDELRM RangeBackszatterSigmaZeroOPOceanExcludingPolar/ED2PLRNNetCDF The backszatter sigmaZeroUPOceanExcludingPolar/DP2PLRNNetCDF RBSZOPOEPFDCF RangePackinesExcludingPolar/OPED2LINNetCDF The backszatter sigmaZeroUPOcean ExcludingPolar/OPED2LINNetCDF RPEPOFPLRNSDR RangePackinesExcludingPolar/OPED2LINNetCDF The Packinese should be between 0 and 15000 (or missing) for surface type - ocean for latitudes between -70 and 750 degrees RPEPOFPLRNSDR RangePackinesExcludingPolar/OPED2LINNetCDF The Packinese should be between 0 and 15000 (or missing) for surface type - ocean for latitudes between -70 and 750 degrees RPEPOFPLRNSDR RangePackinesExcludingPolar/OPED2RINNetCDF The Packinese should be between 0 and 15000 (or missing) for surface type - ocean for latitudes between - 70 degrees R	Abbreviation	Test name	Details				
MVICEPNCDF Missing ValueIntOceanExcludingPolarNetCDF The value about not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees MVIONCDF Messing ValueIntOceanNetCDF The value should not be a 'missing value' for surface type 0 only RBS2OPOEPEDNCDF RangeBackscatterGigmaZeroOPOceanExcludingPolarED2MetCDF The backscatter digmazero should be between 700 and 7500 (or missing) for surface type - ocean for latitudes between 700 and 7500 (or missing) tor surface type - ocean for latitudes between 700 and 7500 (or missing) tor surface type - ocean for latitudes between 700 and 7500 (or missing) tor surface type - ocean for latitudes between 700 and 7500 (or missing) tor surface type - ocean for latitudes between 700 and 7500 (or missing) tor surface type - ocean for latitudes between - 70 and 70 degrees RNELPOTONCDF RangePeakinessExcludingPolarOPD2LINMetCDF The backscatter digmazeroOPOceanExcludingPolarOPD2LINMetCDF The Peakiness Bhould be between 700 and 7500 (or missing) for surface type - ocean for latitudes between - 70 and 70 degrees RNELPOTONCDF RangePeakinessExcludingPolarOPD2LINMARCDF The Peakiness Bhould be between 0 and 90000 (or missing) for surface type - ocean for latitudes between - 70 and 70 degrees RNEEPOFPDLIRMNCDF RangePeakinessExcludingPolarOPFD2LINMARCDF The Peakiness Bhould be between 0 and 90000 (or missing) for surface type - ocean for latitudes between - 70 and 70 degrees RPEPOFPDISINNCDF RangePeakinessExcludingPolarOPFD2SAINHCDF The Peakiness Bhould be between 0 and 90000 (or missi	BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter				
NVIONCDF MesingValueIn/Cocent/NetCDF The value should not be a 'missing value' for surface type = 0 only. RBS2OPOEPFDNDDF RangeBackscatterSigmaZeroOPOceanExcludingPolar/D2NetCDF The backscattersigmaZero bhould be between 700 and 7500 (or missing) for surface type = ocean for latitude between 70 and 750 (or missing) for surface type = ocean for latitude between 70 and 7500 (or missing) for surface type = ocean for latitude between 70 and 7500 (or missing) for surface type = ocean for latitude between 70 and 7500 (or missing) for surface type = ocean for latitude between 70 and 750 (or missing) for surface type = ocean for latitude between 70 and 750 degrees RNELPOTONCDF RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF The Non-equilibrium for period ocean lading tide height should be between 40mm and 40mm (or missing) for surface type = ocean for latitudes between 70 and 750 degrees RNELPOTONCDF RangePeakinessExcludingPolarOPED2LBMNetCDF The Peakiness should be between 0 and 5600 (or missing) for surface type = ocean for latitudes between - and 70 degrees RNEEPOPFDLRMNODF RangePeakinessExcludingPolarOPED2ELRMNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPFDLRMNODF RangePeakinessExcludingPolarOPED2ELRMNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPFDLRMNODF RangePeakinessExcludingPolarOPED2ELRMSINNetCDF The Peakiness should be between 0 and 50000 (or missing) for surface ty	MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
RESZOPOEPEDNOLDF RageBacksatterSigmaZeroOPCeastExcludingPolar/ED2NetCDF The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 70 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul between 700 and 7500 (or missing) for surface type = ocean for laftul	MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
HissDorOCEFFUND ImageBackscatterSigmaZeroOPOcanExcludingPolar/D2PELRINNetCDF Determen 70 and 7500 (or missing) for surface type – ocean for latitudes between RESZOPCEFFURM RangeBackscatterSigmaZeroOPOcanExcludingPolar/D2PLRINNetCDF The backscatter sigmaZero should be between 700 and 7500 (or missing) for surface type – ocean for latitudes between RESZOPOEFNCDF RangeBackscatterSigmaZeroOPOcanExcludingPolar/D2PLRINNetCDF The backscatter sigmaZero should be between 700 and 7500 (or missing) for surface type – ocean for latitudes between RPEOOFPLENNCDF RangeBackscatterSigmaZeroOPOcanExcludingPolar/D2PLRINNetCDF The Deakiness should be between 0 and 6400 (or missing) for surface type – ocean for latitudes between RPEPOOFPLENNCDF RangePeakinessExcludingPolarOPFD2PLRINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type – ocean for latitudes between RPEPOOFPLIENNSDR RangePeakinessExcludingPolarOPFD2PLRINNEtCDF The Peakiness should be between 0 and 90000 (or missing) for surface type – ocean for latitudes between RPEPOOFPLIENNSDF RangePeakinessExcludingPolarOPFD2PLRINNEtCDF The Peakiness should be between 0 and 90000 (or missing) for surface type – ocean for latitudes between RPEPOOFPLIENNSDF RangePeakinessExcludingPolarOPFD2PLRINNEtCDF The Peakiness should be between 0 and 90000 (or missing) for surface type – ocean for latitudes between RPEPOOFPLIENNCDF RangePeakinessExcludingPolarOPFD2PLRINNEtCDF <td>MVIONCDF</td> <td>MissingValueIntOceanNetCDF</td> <td>The value should not be a 'missing value' for surface type 0 only</td>	MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
NCDF RangeBackscatterSigmaZer00PCceanExcludingPolarH22PLINMetCDF Detween 7:0 and 70 degrees RBSZ0POEPNCDF RangeBackscatterSigmaZer00PCceanExcludingPolarMetCDF The backscatter Sigma zero should be between 700 and 7500 (or missing) for surface type - ocean for latitudes between 7. RPEPOPFDIEMNCDF RangeBackscatterSigmaZer00PCceanNetCDF The Non-equilibrium floop period ocean loading tide height should be between -40mm and 40mm (or missing) RPEPOPFDIEMNCDF RangePackinessExcludingPolarOPFD2LRMARCDF The Peakiness broud be between 0 and 6400 (or missing) for surface type - ocean for latitudes between 7. RPEPOPFDIENSIND RangePackinessExcludingPolarOPFD2LRMSARKOFF The Peakiness broud be between 0 and 15000 (or missing) for surface type - ocean for latitudes between 7. RPEPOPFDIENSIND RangePackinessExcludingPolarOPFD2LRMSINHCDF The Peakiness broud be between 0 and 15000 (or missing) for surface type - ocean for latitudes between 7. RPEPOPFDISINNCDF RangePackinessExcludingPolarOPFD2SINNetCDF The Peakiness broud be between 0 and 90000 (or missing) for surface type - ocean for latitudes between 7. RPEPOPFDISINNCDF RangePackinessExcludingPolarOPFD2SINNetCDF The Peakiness broud be between 0 and 90000 (or missing) for surface type - ocean for latitudes between 7. RPEPOPFDISINNCDF RangePackinessExcludingPolarOPFSARNetCDF The Peakiness broud be between 0 and 900000 (or missing) for surface type - ocean for latitudes between	RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
Instruction Instruction Destinant Ora of 2 degrees RNELPOTONCDF RangeNELPOceanTideOceanNatCDF The Non-equilibrium tong partid ocean loading tide height should be between -40mm and 40mm (or missing) RPEPOPFDLRMNCDF RangePeakinessExcludingPolarOPFD2LRMNetCDF The Peakiness isoluid be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -7 and 70 degrees RPEPOPFDLRMSAR RDEPOPFDLRMSAR RangePeakinessExcludingPolarOPFD2LRMSARNetCDF The Peakiness isoluid be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -7 and 70 degrees RPEPOPFDLRMSINN RDEPOPFDLRMSINN RangePeakinessExcludingPolarOPFD2LRMSINNetCDF The Peakiness isoluid be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -7 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPFD2SINNetCDF The Peakiness isoluid be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -7 and 70 degrees RPEPOPFDIRMNCDF RangePeakinessExcludingPolarOPFD2SINNetCDF The Peakiness isoluid be between 0 and 4000 (or missing) for surface type = ocean for latitudes between -7 and 70 degrees RPEPOPFDIRMNCDF RangePeakinessExcludingPolarOPSARNetCDF The Peakiness isoluid be between 0 and 4000 (or missing) for surface type = ocean for latitudes between -7 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPSARNetCDF The Peakiness isoluid be between 0 and		RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RNEEPOPFDLENNCDF AangePeakinessExcludingPolarOFFD2LRNNetCDF The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between - 7 RPEPOPFDPLRMSAR AangePeakinessExcludingPolarOFFD2LRNNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between - 7 RPEPOPFDPLRMSINN AangePeakinessExcludingPolarOFFD2PLRMSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - 7 RPEPOPFDSINNCDF AangePeakinessExcludingPolarOFFD2PLRMSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - 7 RPEPOPFDSINNCDF RangePeakinessExcludingPolarOFFD2SINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - 7 RPEPOPFDSINNCDF RangePeakinessExcludingPolarOFFD2SINNetCDF The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between - 7 RPEPOPSINNCDF RangePeakinessExcludingPolarOFSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - 7 RPEPOPSINNCDF RangePeakinessExcludingPolarOFSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - 70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOFSINNetCDF The sea satate between 0 and 90000 (or missing) for surface type = oc	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				
Interprepries and yet examises Excluding PolarOPFD2LRMSAR NetCDF and 70 degrees RPEPCPOFPDERMSAR RangePeakiness ExcludingPolarOPFD2PLRMSARNetCDF and 70 degrees RPEPCPFDEPLRMSINN CDF RangePeakiness ExcludingPolarOPFD2PLRMSINNetCDF and 70 degrees RPEPCPFDSARNCDF RangePeakiness ExcludingPolarOPFD2PLRMSINNetCDF and 70 degrees RPEPCPFDSARNCDF RangePeakiness ExcludingPolarOPFD2SARNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPFDSINNCDF RangePeakiness ExcludingPolarOPFD2SINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPFDSINNCDF RangePeakiness ExcludingPolarOPLRMNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPSINNCDF RangePeakiness ExcludingPolarOPSARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RSBECONCDF RangePeakiness ExcludingPolarOPSARNetCDF The Peakiness should be between - 3000mm and 0000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RSSBCONCDF RangeSeaStateBiasCorrectionOceanHCDF The seas surface height anomaly should be between - 3000mm and 3000mm (or missing) for surface type = ocean RSSHAOFDPLRMNCD	RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
NCDF HangereakinessExcludingPolarOPED2HLMSAINRECUP and 70 degrees And 70 degrees RPEPOPFDPLRMSINN RangePeakinessExcludingPolarOPED2HLMSINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPED2SINNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolarOPED2SINNetCDF The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPLRMNCDF RangePeakinessExcludingPolarOPEARNetCDF The Peakiness should be between 0 and 50000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPSARNetCDF The Peakiness should be between 0 and 50000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPSARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between - and 70 degrees RSBCONCDF RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF The sea sate bias correction should be between - 3000mm and 0mm (or missing) for surface type = ocean RSSHAOFDPLRMNCD RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF The sea surface height anomaly should be between	RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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RSSHAOPDNODP RangeSeaSurfaceHeightAnomalyOcean/FD3NetCDF ocean RSSHAONCDF RangeSeaSurfaceHeightAnomalyOcean/FD3PLRMNetCDF The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean RSSHAONCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean RSWHOEPFDNCDF RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RSWHOEPFDPLRMNC RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RSWHOEPFDNCDF 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 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_RLel_Time_ASC_Node_Stop_v2_	RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
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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_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			The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
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SOOHHIFHD SameOrOneHigher1HzIndexFor20HzData The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample	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_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch				
SCSTODHRNCDF SequenceCounterStepTODHRNetCDF The sequence counter should be modulo 4 higher with regard to the previous sequence counter	SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample				
	SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter				
SCSTODNCDF SequenceCounterStepTODNetCDF The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter	SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter				

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0