

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

<u>26/12/2022</u>

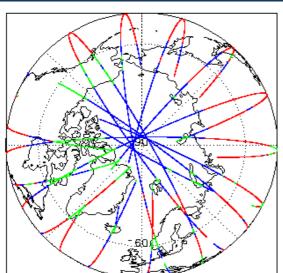
## IDEAS-QA4E0

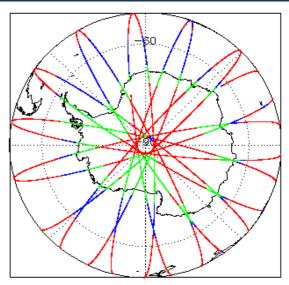
	00.1 0000	Check	L1 & L2
Report Production:	03-Jan-2023	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
Processor useu:	CryoSal Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Useu:	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
We would love to hear from you! Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2

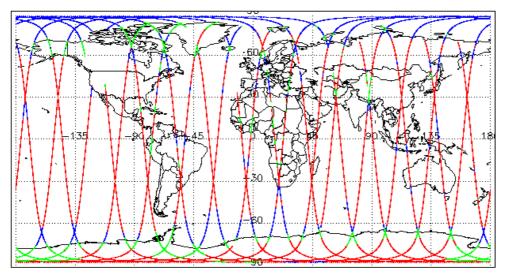
1. Overview

# 26-Dec-2022None27-Dec-2022Nothing planned

## 2. Global Coverage







## Mode Coverage

LRM
SAR
SARIn

## 3. Instrument Configuration

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

SIRAL - A
Star Tracker 1

4. NOP Level 1B Data Quality Check

### 4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and S	SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.		
> L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L1E	NOPR and NOPN products because the I1	p_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-c	letermined baseline and also to check the va	lidity of Auxiliary Data Files is correct.		
> Dynamic Atmospheric Correction: The DAC is missing in all products becau	se the auxiliary files required are not availabl	e 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.	The bit value of this flag indicates any proble	ms when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
	nt record. The hit value of this flag indicator	nnu arablama whon oot		
CryoSat L1B data includes a measurement confidence flag for each measurement				
> Attitude Correction Missing: This flag is currently set in error for NOPR produ updated in the next SW update.	ucis que lo a configuration issue. The attitud	e 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	The bit value of this flag indicates any problem	ns when set.		
> Loss of Echo Flag: This flag is currently set for occasional products over land	, but this is to be expected.			
Number of products with errors: 12				
Product	Test Failed	Description		
CS_OFFL_SIR_NOPM1B_20221226T003018_20221226T005006_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPM1B_20221226T124052_20221226T125912_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221226T020112_20221226T020321_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221226T065147_20221226T065359_C001 CS_OFFL_SIR_NOPN1B_20221226T072725_20221226T073322_C001	Loss of Echo 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_NOPN1B_20221226T100546_20221226T101037_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221226T150820_20221226T150855_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221226T163348_20221226T163433_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPN1B_20221226T181224_20221226T181359_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS OFFL SIR NOPN1B 20221226T195128 20221226T195429 C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPR1B_20221226T024129_20221226T024454_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_NOPR1B_20221226T182820_20221226T183015_C001	Loss of Echo	The tracking echo is missing for one or more records		
E NO	P Level 2 Data Quality Ch	aak		
	P Level 2 Data Quality Cil	eck		
5.1 L2 Product Format Check				
Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).				
Number of products with errors: 0				
5.2 L2 Product Header Analysis				
For all products, a series of pre-defined checks are performed on the MPH and S	SPH in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.		
Number of products with errors: 0				
5312 Auviliary 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-c	letermined baseline and also to check the va	lidity of Auxiliary Data Files is correct.		
Wind Model File Usage: This file is currently not included in all L2 products.				
Number of products with errors: 0				
5.4 L2 Auxiliary Correction Error Check				
For all products, the auxiliary corrections within the Geophysical Group are checked for the default error value (32767).				
Currently, there are some common auxiliary correction errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below,				
followed by a table highlighting any additional issues which may arise from this test.				
> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.				
> Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.				
> Mean Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected.				
> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.				
Number of products with errors: 47				
	Test Failed	Description		
Product		Description There is an error with the Mean Dynamic Topography height for one or		
CS_OFFL_SIR_NOPN_2_20221226T005149_20221226T005313_C001	Mean Dynamic Topography (1)	more records		

Chi, Chi, Jin Junchi, Junchish, Junchis			
OCCUPUED         OCCUPUED         Name (New (COUNT)         Name (New (COUNT)         Name (New (COUNT)           SS CPR, SR NOM 2         SCORE, SR NOM 2         SCORE SR NOM 2	CS_OFFL_SIR_NOPN_2_20221226T010128_20221226T010246_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
Bit OFFL SE NORFL 2 DEVICESTIGNED OF DEVICESTIGNED     North Sea NORFL SE NORFL 2 DEVICESTIGNED OF	CS_OFFL_SIR_NOPN_2_20221226T020112_20221226T020321_C001	Mean Dynamic Topography (1)	
No. Child         Transport (1)         Transport (1)         Transport (1)         Transport (1)           CD, CHIL, DIN, LA, MONTRETIDUNG, MERTIDUNG, MERIDUNG, MERTIDUNG, MERTIDUNG, MERIDUNG, MERTIDUNG, MERTIDU	CS_OFFL_SIR_NOPN_2_20221226T023132_20221226T023258_C001	Mean Dynamic Topography (1)	
Ball, Mar, Jan, John, J., 2002 Laboration (1999) (1997)         Rest instance for graphy (1997)         Rest instance for graphy (1997)           C2         DHL, SHR, NOPH, 2. 2002 Laboration (19, 2002) Laborat	CS_OFFL_SIR_NOPN_2_20221226T023820_20221226T024129_C001		
Col: Off. 1991. NORK 2: 2022/2021/1911/192. 0022/2021/1911/192. 0021         Man Stee, Christian 1, Man Daw Christian 1, Man	CS_OFFL_SIR_NOPN_2_20221226T033432_20221226T033549_C001	Mean Dynamic Topography (1)	
Cold Microsofty (1)         Tropposity (1)         Tropposity (1)         Tropposity (1)         Tropposity (1)           CS_OPEL_SIR_NOPL_2_02212261705158_02212261795400_001         Mach Sos Synthev (1) Mach Dynamic         Tropposity (1)	CS_OFFL_SIR_NOPN_2_20221226T041115_20221226T041149_C001	Mean Dynamic Topography (1)	
Corr Carl, Sin, NoPH, 2: Additionations to additionations to additionations to additionation of the second to additionation of the s	CS_OFFL_SIR_NOPN_2_20221226T041720_20221226T042049_C001		
CE: OFTL SIR NOPN 2 20221231704707 202212321704703     Taggaraphy (1): Total Geocenic Cean Taggaraphy (adjut couldon) 1 and the Main Divance Taggaraphy (1): Total Cecenic Total Proceeding Center Center Taggaraphy (1): Total Cecenic Cean Taggaraphy (1): Total Cecenic Taggaraphy (1): Total Cecenic Taggaraphy (1): Total Cecenic Cean Taggarap	CS_OFFL_SIR_NOPN_2_20221226T055158_20221226T055433_C001	Topography (1)	Topography height (solution 1) for one or more records
CS. DFL_SH_NOPL_2.02212611077.002.022122611074210_001       Yeaparaby (1)       Tooparaby Neght Excludes 1) for one or more records         CS_DFL_SH_NOPL_2.02212261078018_202212261008216_0011       Mean Dynamic Topagnaby (1)       Then is an error with the Misen Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.02212261008216_202212261008216_20011       Mean Dynamic Topagnaby (1)       Then is an error with the Misen Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.02212261008216_202212261101027_00011       Mean Dynamic Topagnaby (1)       There is an error with the Misen Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.02212261100616_202212261101027_00011       Mean Dynamic Topagnaby (1)       There is an error with the Misen Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.00212261114001_202212061114002_00011       Mean Dynamic Topagnaby (1)       There is an error with the Misen Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.00212261114001_202212061114002_00011       Mean Dynamic Topagnaby (1)       There is an error with the Misen Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.00212261114001_202212061114002_00011       Mean Dynamic Topagnaby (1)       There is an error with the Misen Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.00212261114001_202212061114002_00011       Mean Se Surface (1), Mann Dynamic Topagnaby height for one or more records         CS_DFL_SH_NOPL_2.00212261126101001       Mean Se Surface (	CS_OFFL_SIR_NOPN_2_20221226T064707_20221226T064828_C001	Topography (1), Total Geocentric Ocean	Topography height (solution 1) and the Total Geocentric Ocean Tide
Corr Corr Corr Corr Corr Corr Corr Corr	CS_OFFL_SIR_NOPN_2_20221226T072725_20221226T073323_C001		<b>ö</b> ( <b>)</b>
OP         OP         CPUID SITE NOTINE & 2022 (2011) Sectors Dool)         Tapagraphy (1)         Tapagraphy (2)           CBOFFL_SIR_NOPN_2_0221220T100542_022 (2021) Sectors DOI         Mean Dynamic Tapagraphy (1)         There is an error with the Mean Dynamic Tapagraphy height (column 1) for one or more records           CBOFFL_SIR_NOPN_2_0221220T100546_0221220T101597_0011         Mean Sec Surface (1), Mean Dynamic Tapagraphy height (column 1) for one or more records           CBOFFL_SIR_NOPN_2_0221220T100546_0221220T101597_0011         Mean Sec Surface (1), Mean Dynamic Tapagraphy height (column 1) for one or more records           CBOFFL_SIR_NOPN_2_0221220T100546_0221220T101597_0011         Mean Dynamic Tapagraphy (1)         There is an error with the Mean Dynamic Tapagraphy height (column 1), the Mean Dynamic Tapagraphy (1)           CBOFFL_SIR_NOPN_2_0221220T120007_02221220T122220_001         Wean Dynamic Tapagraphy (1)         There is an error with the Mean Dynamic Tapagraphy height (column 1), the Mean Dynamic Tapagraphy (1)           CBOFFL_SIR_NOPN_2_0221220T122051_02221220T122251_0001         Wean Dynamic Tapagraphy (1)         There is an error with the Mean Dynamic Tapagraphy height (column 1), the Mean Dynamic Tapagraphy (1)           CBOFFL_SIR_NOPN_2_0221220T12251_0001         Wean Dynamic Tapagraphy (1)         There is an error with the Mean Dynamic Tapagraphy height (column 1), and the Kan Dynamic Tapagraphy height (column 1) for one or more records           CBOFFL_SIR_NOPN_2_0221220T12251_0001         Mean Sec Surface (1), Mean Dynamic Tapagraphy height (colum 1) and the Mean Dynamic Tapagraphy	CS_OFFL_SIR_NOPN_2_20221226T074038_20221226T074216_C001	Mean Dynamic Topography (1)	
Col, DFL_SIN_NOPN_2_20221226T09146_2021228T092142_0001         Mean Optimic Topography (1)         There is an enor with the Mean Dynamic Topography height for one or more records           CS_OFFL_SIR_NOPN_2_20221228T100346_20221228T101037_0001         Mean Statisfica (1), Mean Dynamic Topography (1)         There is an enor with the MSS height (polution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20221228T114031_20221228T114034_0001         Mean Statisfica (1), Mean Dynamic Topography (1)         There is an enor with the MSS height (polution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20221228T12829_0001         Mean Statisfica (1), Mean Dynamic Topography (1)         There is an enor with the MSS height (polution 1) the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20221228T12829_0021         Mean Statisfica (1), Mean Dynamic Topography (1)         There is an enor with the MSS height (polution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20221228T144035_20221228T14137_0001         Mean Statisfica (1), Mean Dynamic Topography (1)         There is an enor with the MSS height (polution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20221228T144035_20221228T14137_0001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an enor with the MSS height (polution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_20221228T144025_20221228T145029_0001         Mean Sea Surface (1), Mean Dynamic Topography might (touktion 1) and the Mean Dynamic Topography might (touktion 1) and the Mean Dynamic Topography might (touktion 1) and the Mean Dynamic T	CS_OFFL_SIR_NOPN_2_20221226T082632_20221226T082845_C001		
OS_DEPL_SH_NOPN_2_202212851104264_202212851101037_0001       Mean Dynamic Opportphy (1)       more records         CS_OFFL_SIR_NOPN_2_202212851104054_202212851114054_0001       Mean Dynamic Topography (1)       There is an error with the MSS height (abulion 1) and the Maan Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221285112007_20221285112007_202212285112007_20221228512007_20221228512007_20221228512007_20221228512007_20221228512007_20221228512007_20221228512007_20221228512007_20221228512007_20221228512007_20221228512001       Mean Dynamic Topography (1)       There is an error with the MSS height (abulion 1), the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221228512007_20221228512007       Mean Dynamic Topography (1)       There is an error with the MSS height (abulion 1), the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221228512007_20221228512001       Mean Dynamic Topography (1)       There is an error with the MSS height (abulion 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_2022122851141037_001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (abulion 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_202212285114070_2022122851140129_001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (10, 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_2022122851140707_2022122851140129_001       Mean Sea Surface (1), Mean Dynamic Topography height (1) for one or more records         CS_OFFL_SIR_NOPN_2_2022122851145707_0001       Mean Sea Surface (1), Mean Dyna	CS_OFFL_SIR_NOPN_2_20221226T090927_20221226T091112_C001	Mean Dynamic Topography (1)	
DS. DFPL_SIR_NOPN_2_20221281110056_20221281114051_0001       Topography (1)       Topography height (solution 1) for one or more records         DS_OFFL_SIR_NOPN_2_20221286T14031_0222128T114054_0001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and the Kash Dynamic Topography (solution 1) and the Kash Dynamic Topography height (solution 1) and the Kash Dynamic Topography (solution 1) and the Kash Dynamic Topography height (solution 1) and the Kash Dynamic Topography (solution 1) and the Kash Dynamic Topography height (solution 1) and the Kash Dynamic Topography (solution 1) and the Kash Dynamic Topography (solution 1) and the Kash Dynamic Topography height (solution 1) and the	CS_OFFL_SIR_NOPN_2_20221226T091946_20221226T092142_C001	Mean Dynamic Topography (1)	
Dis_CPFL_SIR_NOPN_2_20221226114037_20221226113329_0001         Mean Sea Surface (1). Mean Dynamic Topography (1)         more records           CS_OFFL_SIR_NOPN_2_202212261123007_20221226112329_0001         Mean Sea Surface (1). Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the idial corrections for one or more records           CS_OFFL_SIR_NOPN_2_20221226112384_002212261123851_0001         Mean Sea Surface (1). Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the idial corrections for one or more records           CS_OFFL_SIR_NOPN_2_20221226114107_0002112851150025_0001         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_202212261154707_022212261155025_0001         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_202212261154707_0221226115519_0001         Mean Sea Surface (1). Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_NOPN_2_202212261154554_00221226115519_0001         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 (soluti	CS_OFFL_SIR_NOPN_2_20221226T100546_20221226T101037_C001		
CS. OFFL_SIR_NOPN_2_20221226T123007_20221226T12329_001       Topography (1). Total Geocentric Ocean Tide (CST), Nor-Equilibrium Long Perror Topography (solution 1) and the tidal corrections for one or more records         CS_OFFL_SIR_NOPN_2_20221226T123824_20221226T123951_C001       Mean Dynamic Topography (1)       There is an error with the MasD Paramic Topography (1) Toroor encords         CS_OFFL_SIR_NOPN_2_20221226T140825_20221226T141137_C001       Mean Sas Surface (1). Mean Dynamic Topography (1)       There is an error with the MASD height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221226T140825_20221226T141137_C001       Mean Sas 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_20221226T155754_20221226T155719_C001       Mean Sas 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_20221226T187555_20221226T195759_C001       Mean Sas 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_20221226T18755_20221226T181589_C001       Mean Sas 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_20221226T181735_0221226T181572_001       Mean Sas 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_20221226T114031_20221226T114054_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20221226T18282_0221226T141197_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_20221226T154707_20221226T155025_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_20221226T155554_20221226T155719_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_20221226T1535564_20221226T155719_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_20221226T137335_20221226T193536_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_20221226T191263_20221226T1914629_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_20221226T191143_20221226T19143_20221226T19144_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_20221226T191143_20221226T1915712_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the	CS_OFFL_SIR_NOPN_2_20221226T123007_20221226T123229_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
CS_OFFL_SIR_NOPN_2_202212261194707_202212261195025_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_202212261195754_202212261195759_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_202212261195554_202212261173355_202212261173355_202212261173356_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226119173355_202212261191829_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_202212261191733_20221226119143_20221226119144_2001       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_20221226119143_202212261191457_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_202212261195712_20212261195712_2021       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_202212261195712_202212261195712_202212261195712_0021       Mea	CS_OFFL_SIR_NOPN_2_20221226T123824_20221226T123951_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20221226115504_00221226115504_00211266115504_00211266115504_00212266115504_00212266115504_00212266115504_00212266115504_002122661155019_0001       Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_202212261155554_202212261173356_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_202212261181733_202212261181829_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_202212261190252_202212261190434_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_202212261191367_0001       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_202212261191367_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221226119551_202212261195712_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_202212261195712_202212261195745_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_202212261205026_202212261195745_0001       Mean Sea Surface (1), Mean Dynamic Topogra	CS_OFFL_SIR_NOPN_2_20221226T140825_20221226T141137_C001		
CS_OFFL_SIR_NOPN_2_20221226T133355_20221226T1733356_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T1733355_20221226T181829_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_20221226T181733_20221226T181829_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T190522_20221226T190434_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T19143_20221226T191357_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T195531_20221226T195712_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T195712_2021226T195745_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T205036_20221226T2043	CS_OFFL_SIR_NOPN_2_20221226T154707_20221226T155025_C001		
CS_OFFL_SIR_NOPN_2_202212261193353_202212261181829_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_202212261181733_202212261181829_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_202212261190252_202212261190434_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_202212261191143_202212261191357_C001       Mean Sa Surface (1), Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226119531_202212261195712_C001       Mean Sa Surface (1), Mean Dynamic Topography (1)       There is an error with the Msan Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (GOT)         CS_OFFL_SIR_NOPN_2_202212261195712_202212261195745_C001       Mean Sa 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_202212261205036_20221226120525_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_202212261205036_20221226120525_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography	CS_OFFL_SIR_NOPN_2_20221226T155554_20221226T155719_C001		
CS_OFFL_SIR_NOPN_2_20221226T190252_20221226T190434_C001       Mean Dynamic Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T1910252_20221226T190434_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_20221226T19143_20221226T191357_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_20221226T195531_20221226T195712_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T195712_20221226T195745_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221226T204202_20221226T204350_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T205036_20221226T205525_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T21314Z_20221226T2134609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221226T21344Z_20221226T213609_C001       Mean Sea	CS_OFFL_SIR_NOPN_2_20221226T173355_20221226T173536_C001		
CS_OFFL_SIR_NOPN_2_20221226T1910434_0001       Investigation of the property of the model of th	CS_OFFL_SIR_NOPN_2_20221226T181733_20221226T181829_C001		
CS_OFFL_SIR_NOPN_2_20221226T195531_20221226T195712_C001       Mean Dynamic Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T195531_20221226T195712_C001       Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)       There is an error with the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221226T195712_20221226T195745_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T204202_20221226T204350_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_20221226T205036_20221226T204350_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_NOPN_2_20221226T205036_20221226T205525_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T223147_20221226T223340_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T223147_20221226T223340_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_NOPN_2_20221226T190252_20221226T190434_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20221226T19531_20221226T195712_20011       Geocentric Ocean Tide (GOT)       Total Geocentric Ocean Tide (solution 1: GOT) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T195712_20221226T195745_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T204202_20221226T204350_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_20221226T205036_20221226T205525_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_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_20221226T213213_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213214_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213214_20221226T213340_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T223147_20221226T223340_C001       Mean Sea Surface (1), Mean Dynamic Topography h	CS_OFFL_SIR_NOPN_2_20221226T191143_20221226T191357_C001		
CS_OFFL_SIR_NOPN_2_20221226T195712_20221226T195745_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T204202_20221226T204350_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_20221226T205036_20221226T205525_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T205036_20221226T205525_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_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_20221226T213213_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213214_20221226T213609_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_20221226T223147_20221226T223340_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_20221226T195531_20221226T195712_C001		
CS_OFFL_SIR_NOPN_2_20221226T205036_20221226T205525_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_20221226T213213_20221226T213609_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_20221226T213213_20221226T213609_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_20221226T213213_20221226T213609_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_20221226T223147_20221226T223340_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_20221226T195712_20221226T195745_C001		
CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_C001       Topography (1)       Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records         CS_OFFL_SIR_NOPN_2_20221226T223147_20221226T223340_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_NOPN_2_20221226T204202_20221226T204350_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_202212261213213_202212261213609_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202212261213213_202212261213609_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_20221226T205036_20221226T205525_C001		
	CS_OFFL_SIR_NOPN_2_20221226T213213_20221226T213609_C001		
	CS_OFFL_SIR_NOPN_2_20221226T223147_20221226T223340_C001		

CS_OFFL_SIR_NOPR_2_20221226T000318_20221226T001219_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_20221226T014250_20221226T014841_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_20221226T014841_20221226T015157_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_20221226T020039_20221226T020112_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_20221226T114054_20221226T114612_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_20221226T130857_20221226T131101_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_20221226T132000_20221226T132757_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_20221226T145821_20221226T150729_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_20221226T163931_20221226T164654_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_20221226T181830_20221226T182412_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_20221226T182427_20221226T182551_C001	Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_NOPR_2_20221226T195745_20221226T200433_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_20221226T212853_20221226T213151_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_20221226T213609_20221226T214130_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_20221226T231429_20221226T232421_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.

92

#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20221226T002059_20221226T002318_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_20221226T002324_20221226T003014_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_20221226T003018_20221226T005006_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_20221226T005313_20221226T005752_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_20221226T010618_20221226T013913_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_20221226T022331_20221226T022606_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_20221226T023258_20221226T023820_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_20221226T024454_20221226T030627_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_20221226T030913_20221226T031850_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_20221226T033032_20221226T033432_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_20221226T035033_20221226T035522_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_20221226T035710_20221226T040734_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_20221226T041254_20221226T041720_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_20221226T042403_20221226T042932_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_20221226T042941_20221226T043510_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_20221226T043550_20221226T045609_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_20221226T051538_20221226T052031_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_20221226T052202_20221226T054459_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_20221226T055434_20221226T055626_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_20221226T055940_20221226T060052_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_20221226T060323_20221226T060944_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_20221226T061015_20221226T062048_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_20221226T062528_20221226T063238_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_20221226T064828_20221226T065146_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_20221226T065400_20221226T065949_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_20221226T070116_20221226T070932_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_20221226T071146_20221226T072650_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_20221226T073323_20221226T073541_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_20221226T073617_20221226T074037_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_20221226T074249_20221226T074922_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_20221226T075041_20221226T075717_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_20221226T075857_20221226T081011_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_20221226T083653_20221226T083925_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_20221226T084032_20221226T084300_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

CQ_011_LEV_DRM_L2XX1188109000_U001120110000_U001         CDC00_Alternane Theory Builty CDC00_UN01_ CRC00110000_U0011_CRC00110000_U0011_CRC00110000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0011_CRC00010000_U0001_U0011_CRC00010000_U0001_U0011_CRC00010000_U0001_U0011_CRC0001000_U0001_U0011_CRC00010000_U0001_U00001_U00001_U0001_U00001_U00001_U00001_U00001_U00001_U00001_U00001_U00001_U00001_U0001_U0001_U0001_U0001_U0001_U0001_U0001_U0001_U00001_U0001_U000000U00000000	CS_OFFL_SIR_NOPM_2_20221226T084423_20221226T084728_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CH 0FH URF NOPM 2 2021202110814 202120110810 C011       and Balacentro Cultury, OCCO       per to CUCU Anterest Frage and Balacentro Cultury Frage frame beins Attention Frage and Balacentro Cultury Frage frame beins attentioned Frage and Balacentro Cultury Frage frame beins atteno control cultury Frame beins atteno control cultury Frage frame	CS_OFFL_SIR_NOPM_2_20221226T084902_20221226T084903_C001		
00.0011_0011_0010_01_02.022102110020         Residuate Duary         up one monocode           00.0011_0010_01_02.022102110001_022102110010_0000         Dear American Program States, State, State, States, State	CS_OFFL_SIR_NOPM_2_20221226T085244_20221226T090803_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DPL_DFFL_SFL_VDFL_Z_SERVICEST_SERVI	CS_OFFL_SIR_NOPM_2_20221226T091113_20221226T091945_C001		
Ce, GPL, SR, NOPM, 2, 2021/2011/0028, 3021/2011/0028, 0001 Ce, GPL, SR, NOPM, 2, 2021/2011/0012, 30221/2011/0028, 0001 Ce, GPL, SR, NOPM, 2, 2021/2011/0012, 30221/2011/0012, 0001 Ce, GPL, SR, NOPM, 2, 2021/2011/0012, 30221/2011/2012, 0001 Ce, GPL, SR, NOPM, 2, 2021/2011/0012, 30221/2011/2012, 0001 Ce, GPL, SR, NOPM, 2, 2021/2011/2012, 0001 Ce, GPL, SR	CS_OFFL_SIR_NOPM_2_20221226T092215_20221226T094446_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB_LPH_SH_WPH_2_000110011_0001_000110001_00000_00000_00000_00000_000000	CS_OFFL_SIR_NOPM_2_20221226T102252_20221226T104653_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
b Jurie Sin NOPM 2 2022122111013 2022122111042 2021 b construction Range SINA SWH and Bookcatter Castly Flags and	CS_OFFL_SIR_NOPM_2_20221226T105024_20221226T105215_C001		, , , , , , , , , , , , , , , , , , ,
C5       OFFL_SIR_NOPM_2_20221221110151_302212221110580_0001       and Bassaathe Quality, DCOA         C6_OFFL_SIR_NOPM_2_20221221110151_202212221110550_0001       Coent Afmeder Range, S5HA, SVH and Bassaathe Quality, DCOA       and Bassaathe Quality, DCOA         C6_OFFL_SIR_NOPM_2_20221221110151_202212281110550_0001       Coent Afmeder Range, S5HA, SVH and Bassaathe Quality, DCOA       The Ocoan Afmeder Range, S5HA, SVH and Bassaathe Quality, DCOA         C6_OFFL_SIR_NOPM_2_202212281110510_202112281110580_0001       Coent Afmeder Range, S5HA, SVH and Bassaathe Quality, DCOA       The Ocoan Afmeder Range, S5HA, SVH and Bassaathe Quality, DCOA         C6_OFFL_SIR_NOPM_2_202212281110580_00212281112840_0001       Coent Afmeder Range, S5HA, SVH and Bassaathe Quality, DCOA       The OCOA Afmeder Range, S5HA, SVH and Bassaathe Quality, DCOA         C6_OFFL_SIR_NOPM_2_202212281112840_0001       Ocoan Afmeder Range Quality, OCOA       The OCOA Afmeder Range and Baskaather Quality, DCOA         C6_OFFL_SIR_NOPM_2_202212281112840_0001       OCOA Afmeder Range Quality, OCOA       The OCOA Afmeder Range and Baskaather Quality, DCOA         C6_OFFL_SIR_NOPM_2_202212281112840_0001       OCOA Afmeder Range Quality, COCOA       The OCOA Afmeder Range QUALITY, Rage Have been at a databaset Quality, OCOA         C6_OFFL_SIR_NOPM_2_202212281112840_0001       OCOA Afmeder Range QUALITY, Ruge have been aff of or or nore records       The OCOA Afmeder Range QUALITY, Ruge have been aff of or or nore records         C6_OFFL_SIR_NOPM_2_202212281112840_0021       OCOCA Afmeder Range, QUALITY, RUGE HAVE AGA Q	CS_OFFL_SIR_NOPM_2_20221226T105311_20221226T105750_C001		
06. OFRSIR. NOPM.2_20221226111631_202212261118502_0001         and Beakcatter Quality. COOd Backacater Quality. Cood Ammeter Range Augus. Stat. Stylin and Backacater Quality. Cood Ammeter Range Augus. Stylin. Stylin and Backacater Quality. Flags have been set for o in one records.           05. OFFL. SIR. NOPM.2_202212261126912_0022         Cool Cool Ammeter Range Augus. Stylin. Stylin and Backacater Quality. Flags have been set for o in one records.           05. OFFL. SIR. NOPM.2_20221226113057. Cool Ammeter Range Augus. Stylin, Stylin and Backacater Quality. Flags have been set for o in one records.           05. OFFL. SIR. NOPM.2_202212261140142_20221226114044_2021         Cool Ammeter Range ASHA. Stylin and Backacater Quality. Flags have been set for o in one records.           05. OFFL. SIR. NOPM.2_202212261140142_20221226114044_2021         Cool Ammeter Range ABackacater Quality. Flags have been set for o in one records. </td <td>CS_OFFL_SIR_NOPM_2_20221226T110131_20221226T110428_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_NOPM_2_20221226T110131_20221226T110428_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Column Science         Description         Backdocater         Description           OS         OFFL_SIR_NOPM_2_20221285T128452_0001         Ocean Altimeter Range, SSHA, SWH, and Backdocater Quality Flags have been and a factore of counting and Backdocater Quality Flags have been and a factore of counting and Backdocater Quality Flags have been and a factore of counting and Backdocater Quality Flags have been and for one of more records           OS_OFFL_SIR_NOPM_2_20221285T128452_0021         OCCG Altimeter Range Quality, OCCG         The OCCG Altimeter Range and Backdocater Quality Flags have been and for one of more records           OS_OFFL_SIR_NOPM_2_20221285T128452_0021         OCCG Altimeter Range Quality, OCCG         The OCCG Altimeter Range, SSHA, SWH and Backdocater Quality Flags have been and for one of more records           OS_OFFL_SIR_NOPM_2_20221285T128452_00212285T128512_0011         Ocean Altimeter Range, SSHA, SWH and Backdocater Quality Flags have been and factore of more records         The OCCG Altimeter Range, SSHA, SWH and Backdocater Quality Flags have been and factore of more records           OS_OFFL_SIR_NOPM_2_202212285T130657_0011         Ocean Altimeter Range, SSHA, SWH and Backdocater Quality Flags have been and factore of more records         The Ocean Altimeter Range, SSHA, SWH and Backdocater Quality Flags have been and factore of more records           OS_OFFL_SIR_NOPM_2_202212285T130161_202212285T140557_0011         Ocean Altimeter Range, SSHA, SWH and Backdocater Quality Flags have been and factore of more records         The Ocean Altimeter Range, SSHA, SWH and Backdocater Quality Flags have been and facdocatere Quality Flags have been and facdocater Quality Flags h	CS_OFFL_SIR_NOPM_2_20221226T110613_20221226T112553_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20221228T12355_0221228T12255_0221228T12255_0201     and the COGA Altmeter Range and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T12256_02021228T12256_001     OCCOA Altmeter Range Quality, OCCO     The OCCOA Altmeter Range and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T12250_001     OCCOA Altmeter Range Quality, OCCO     The OCCOA Altmeter Range and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T12300_002     OCCOA Altmeter Range Quality, OCCO     The OCCOA Altmeter Range and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T124052_0021228T125912_C001     Occoan Altmeter Range SSHA, SWH and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T13016_20221228T130857_C001     Occoan Altmeter Range, SSHA, SWH and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T13101_20221228T14044_C001     Occoan Altmeter Range, SSHA, SWH and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T144533_0221228T144551_C001     Occoan Altmeter Range Quality, OCCOA Altmeter Range and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T144531_C001     Occoan Altmeter Range Quality, OCCOA Altmeter Range and Backscatter Quality Flage have been set for one or more records       CS_OFFL_SIR_NOPM_2_20221228T144543_QU221228T144551_C001     Occoan Altmeter Range Quality, OCCOA Altmeter Range and Backscatter Quality	CS_OFFL_SIR_NOPM_2_20221226T112813_20221226T113020_C001		
Colume         Colume <thcolu< th="">         Colu         Colu</thcolu<>	CS_OFFL_SIR_NOPM_2_20221226T115935_20221226T122452_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
DS_OPPE_SIR_NOPM_2_20221226T124052_002112365_0001         Backscatter Quality         Ior one or more records           CS_OPFE_SIR_NOPM_2_20221226T124052_00221226T125912_C001         Decan Attmeter Range, SSHA, SWH and Backscatter Quality Flags have been and backscatter Quality Flags have	CS_OFFL_SIR_NOPM_2_20221226T122954_20221226T123007_C001		
CS_OFFL_SIR_NOPM_2_20221226T124052_20221226T130165_C001       and Backscatter Quality. COCQ       Attimeter Range and Backscatter Quality. Plags have been Attimeter Range. SHA, SWH         CS_OFFL_SIR_NOPM_2_20221226T130148_20221226T130657_C001       Cean Attimeter Range. SSHA, SWH       The Ocean Attimeter Range, SSHA, SWH         CS_OFFL_SIR_NOPM_2_20221226T130148_20221226T140444_C001       Cean Attimeter Range and Backscatter Quality. COCG       The Ocean Attimeter Range, SSHA, SWH         CS_OFFL_SIR_NOPM_2_20221226T141138_20221226T140444_C001       Cean Attimeter Range and Backscatter Quality. COCG       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T141138_20221226T141655_C001       COCGA Attimeter Range Quality. COCG       The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T142513_20221226T144555_C001       COCGA Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T14427_20221226T144555_C001       Cocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the DCCGA Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the Backscatter Quality Flags have been at the DCCGA Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the Backscatter Quality Flags have been at the Backscatter Quality Flags have been at the DCCGA Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the Backscatter Quality Flags have been at the Backscatter Quality Flags have been at the Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20221226T123230_20221226T123823_C001		
CS_OFFL_SIR_NOPM_2_80221226T130148_20221226T130857_C001       and Backscatter Quality, COCG       and the OCCG Altimeter Range and Backscatter Quality, COCG         CS_OFFL_SIR_NOPM_2_80221226T133101_20221226T140444_C001       Ocean Altimeter Range, SSHA, SWH       and the OCCG Altimeter Range, SSHA, SWH         CS_OFFL_SIR_NOPM_2_80221226T141138_20221226T140444_C001       Ocean Altimeter Range, SSHA, SWH       and the OCCG Altimeter Range and Backscatter Quality Flags have been at the one or more records         CS_OFFL_SIR_NOPM_2_80221226T141138_20221226T141655_C001       Backscatter Quality, OCCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been at the one or more records         CS_OFFL_SIR_NOPM_2_80221226T142333_20221226T142511_C001       Coean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCCGA Altimeter Range and Backscatter Quality, Flags have been at the OCCGA Altimeter Range and Backscatter Quality Flags have been at the OCCGA Altimeter Range and Backscatter Quality Flags have been at the OCCGA Altimeter Range and Backscatter Quality Flags have been at the OCCGA Altimeter Range and Backscatter Quality, Flags have been at the OCCGA Altimeter Range and Backscatter Quality, Flags have been at the OCCGA Altimeter Range and Backscatter Quality, OCCG         CS_OFFL_SIR_NOPM_2_20221226T144427_20221226T144555_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the OCCGA Altimeter Range, SSHA, SWH         CS_OFFL_SIR_NOPM_2_20221226T145431_20221226T145706_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG         CS_OFFL_SIR_NOPM_2_20221226T154431_20221226T151940_C001       Ocean Altime	CS_OFFL_SIR_NOPM_2_20221226T124052_20221226T125912_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20221226T133101_20221226T140444_C001       and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T141138_20221226T141655_C001       OCOG Attimeter Range Quality, OCOG Backscatter Quality       The OCCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T142333_20221226T142511_C001       Ocean Attimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been       The OCcean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, COCO Attimeter Range and Backscatter Quality, Flags and Backscatter Quality, COCO Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags and the OCOG A	CS_OFFL_SIR_NOPM_2_20221226T130148_20221226T130857_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OS_OFFSIR_NOPM_2_20221226T142333_20221226T142511_C001       Backscatter Quality       for one or more records         OS_OFFSIR_NOPM_2_20221226T142333_20221226T142511_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         OS_OFFSIR_NOPM_2_20221226T144427_20221226T144555_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20221226T145431_20221226T145706_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The OCEA Altimeter Range and Backscatter Quality       Figs have been and the OCCG Altimeter Range and Backscatter Quality       Figs have been and the OCCG Altimeter Range and Backscatter Quality       Figs have been set for one or more records	CS_OFFL_SIR_NOPM_2_20221226T133101_20221226T140444_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20221226T14233_20221226T142511_C001       and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20221226T14427_20221226T144555_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20221226T144427_20221226T145431_20221226T145706_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T152226_20221226T154411_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T155025_20221226T155140_C001       OCOG Altimeter Range Quality, OCOG Altimeter Range Quality, OCOG       The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T15	CS_OFFL_SIR_NOPM_2_20221226T141138_20221226T141655_C001		
CS_OFFL_SIR_NOPM_2_20221226T144427_20221226T144555_C001       and Backscatter Quality, COCG Altimeter Range and Backscatter Quality       and the OCCG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_NOPM_2_20221226T145431_20221226T145706_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_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 had the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags had backscatter Quality, COCG Altimeter Range and Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T155226_20221226T155140_C001       OcCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCean Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T155148_20221226T155554_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T156045_20221226T161059_C001       OCOG Altimeter Range Quality,	CS_OFFL_SIR_NOPM_2_20221226T142333_20221226T142511_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20221226T145431_20221226T145706_C001       and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality       set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T155025_20221226T155140_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_20221226T155148_20221226T155554_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T160045_20221226T161059_C001       Ocean Altimeter Range, SSHA, SWH and Backsc	CS_OFFL_SIR_NOPM_2_20221226T144427_20221226T144555_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001       and Backscatter Quality, OCOG Attimeter 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_20221226T152226_20221226T154411_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter 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_20221226T155025_20221226T155140_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_20221226T155148_20221226T15554_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_20221226T15045_20221226T160045_20221226T16059_C001       OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags for one or more records	CS_OFFL_SIR_NOPM_2_20221226T145431_20221226T145706_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20221226T152226_20221226T154411_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_20221226T155025_20221226T155140_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_20221226T155148_20221226T15554_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_20221226T155148_20221226T15554_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_20221226T160045_20221226T161059_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20221226T151036_20221226T151940_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20221226T155045_20221226T155148_20221226T155554_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_NOPM_2_20221226T155148_20221226T155554_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records         CS_OFFL_SIR_NOPM_2_20221226T160045_20221226T160045_20221226T161059_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20221226T152226_20221226T154411_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_202212261155148_202212261155554_C001       Backscatter Quality       for one or more records         CS_OFFL_SIR_NOPM_2_20221226T160045_20221226T161059_C001       Ocean Altimeter Range, SSHA, SWH       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20221226T155025_20221226T155140_C001		
CS_OFFL_SIR_NOPM_2_20221226T160045_20221226T161059_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20221226T155148_20221226T155554_C001		
	CS_OFFL_SIR_NOPM_2_20221226T160045_20221226T161059_C001		

CS_OFFL_SIR_NOPM_2_20221226T161247_20221226T161859_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_20221226T162038_20221226T162520_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_20221226T164735_20221226T164736_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_20221226T164953_20221226T172309_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_20221226T172530_20221226T173040_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_20221226T173100_20221226T173355_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_20221226T174139_20221226T181214_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_20221226T183133_20221226T184602_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_20221226T184703_20221226T190225_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_20221226T190434_20221226T190938_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_20221226T191017_20221226T191142_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_20221226T191910_20221226T192916_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_20221226T193535_20221226T194754_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_20221226T201329_20221226T202228_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_20221226T202243_20221226T202525_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_20221226T202705_20221226T204118_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_20221226T204350_20221226T204850_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_20221226T205548_20221226T211913_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_20221226T212035_20221226T212853_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_20221226T215821_20221226T222035_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_20221226T222830_20221226T223146_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_20221226T223453_20221226T230319_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_20221226T233444_20221226T235946_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_20221226T041115_20221226T041149_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_20221226T072725_20221226T073323_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_20221226T073541_20221226T073617_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_20221226T112714_20221226T112813_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_20221226T022821_20221226T023131_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_20221226T050847_20221226T051248_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_20221226T063615_20221226T063628_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_20221226T142135_20221226T142333_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20221226T164706_20221226T164718_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

## L2 Quality Flags (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.

85

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20221226T001219_20221226T001251_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_20221226T014118_20221226T014250_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_20221226T020007_20221226T020038_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_20221226T023132_20221226T023258_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_20221226T033432_20221226T033549_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_20221226T034710_20221226T035033_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_20221226T041720_20221226T042049_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_20221226T050837_20221226T050846_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_20221226T055158_20221226T055433_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_20221226T055627_20221226T055939_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_20221226T072725_20221226T073323_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_20221226T074038_20221226T074216_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_20221226T082632_20221226T082845_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_20221226T083018_20221226T083238_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_20221226T084912_20221226T085243_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_20221226T090927_20221226T091112_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_20221226T100546_20221226T101037_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_20221226T104902_20221226T105023_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_20221226T105215_20221226T105311_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_20221226T112714_20221226T112813_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_20221226T113754_20221226T113855_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_20221226T123824_20221226T123951_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_20221226T131935_20221226T132000_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_20221226T143555_20221226T143640_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_20221226T143913_20221226T144058_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_20221226T154707_20221226T155025_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_20221226T161859_20221226T161942_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_20221226T161956_20221226T162038_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_20221226T163348_20221226T163433_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_20221226T173355_20221226T173536_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_20221226T192916_20221226T193022_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_20221226T193302_20221226T193322_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_20221226T195531_20221226T195712_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_20221226T205036_20221226T205525_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_20221226T213213_20221226T213609_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_20221226T214130_20221226T214205_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_20221226T215244_20221226T215624_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_20221226T000318_20221226T001219_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_20221226T001252_20221226T001509_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_20221226T010246_20221226T010618_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_20221226T014250_20221226T014841_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_20221226T014841_20221226T015157_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_20221226T015406_20221226T015526_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 20221226T020039 20221226T020112 C001	OCOG Altimeter Range Quality PLRM,	The OCOG Range and Backscatter Quality Flags have been set for one or
03_011 E_011_N0111_2_202212201020039_202212201020112_0001	OCOG Backscatter Quality	more records
CS_OFFL_SIR_NOPR_2_20221226T031851_20221226T032052_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_20221226T034004_20221226T034007_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_20221226T040734_20221226T041114_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_20221226T045701_20221226T045829_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_20221226T050847_20221226T051248_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_20221226T054500_20221226T055158_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_20221226T063556_20221226T063556_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_20221226T070932_20221226T071146_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_20221226T072651_20221226T072725_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_20221226T081442_20221226T081527_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_20221226T081946_20221226T082130_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_20221226T082845_20221226T083018_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_20221226T083238_20221226T083357_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_20221226T083618_20221226T083653_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_20221226T094446_20221226T094627_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_20221226T104653_20221226T104902_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_20221226T110007_20221226T110131_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_20221226T114054_20221226T114612_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_20221226T130857_20221226T131101_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_20221226T131420_20221226T131617_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_20221226T132000_20221226T132757_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_20221226T140444_20221226T140825_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_20221226T142511_20221226T142730_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_20221226T144555_20221226T144926_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_20221226T145136_20221226T145303_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_20221226T145821_20221226T150729_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_20221226T154412_20221226T154706_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_20221226T163433_20221226T163612_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20221226T163931_20221226T164654_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_20221226T181830_20221226T182412_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_20221226T182820_20221226T183015_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_20221226T191357_20221226T191910_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_20221226T193322_20221226T193535_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_20221226T194911_20221226T195128_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_20221226T195429_20221226T195531_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_20221226T195745_20221226T200433_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_20221226T212853_20221226T213151_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_20221226T213609_20221226T214130_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_20221226T214206_20221226T214307_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_20221226T215625_20221226T215703_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_20221226T231429_20221226T232421_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.

184

63

139

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

Number of products with errors:

### 5.7 L2 Ocean Retracking Quality Check

#### L2 Retracking Flags (20 Hz)

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

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

## Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

## 7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	193	193	5	188	0
SIR_NOPR1B	149	149	0	149	0
SIR_NOPN1B	106	106	2	104	0
SIR_NOPM_2	193	193	135	58	0
SIR_NOPR_2	149	149	74	74	1
SIR_NOPN_2	106	106	44	62	0

Number of QCC reports with errors:

Total number of occurrences of each error

I otal number of occurrences of each error											
Product Type RLOBO	PNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_NOPR_2	1	1	1	1							
Test Description Key:	Test Description Key:										
Abbreviation	Test name	•		Details							
RLOBOPNCDF	RangeLatitu	deOrBlankOP_	7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF							
RL	RangeLatitu	de_7		Latitude should be between -90E7 and 90E7							
RLOBOPNCDF	RangeLongi	tudeOrBlankOP	_7NetCDF	Longitude should I	be between -180E7	and 180E7 - NetC	DF				

4

# 7.2 QCC Warnings

Number of	f QCC repor	ts with warning	s

			Total num	ber of occurrences o	f each warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR NOPM1B	188	0	0	0	0	0	0
SIR NOPM 2	0	0	46	41	0	43	0
SIR_NOPN1B	102	0	0	0	0	0	0
SIR_NOPN_2	0	0	12	29	3	26	28
SIR_NOPR1B	141	0	0	0	0	0	0
SIR_NOPR_2	0	1	26	45	2	19	14
				÷		÷	
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSAR	NCERPEPOPFDPLRMSINNCE	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
			<b>O</b> .(	0	0	0	
SIR_NOPM_2	37	1	31	0	0	0	0
SIR_NOPM_2 SIR_NOPN1B	37 0	1	0	0	0	0	0
		1 0 0	0 0	0	0 0 23	0 0 0	0 0 29
SIR_NOPN1B	0	1 0 0 0	31 0 0 0	0 0 0	0 0 23 0	0 0 0	0 0 29 0
SIR_NOPN1B SIR_NOPN_2	0 18	1 0 0 0 0	0 0 0 0 0	0 0 0 0 43	0 0 23 0 0	0 0 0 0 53	0 0 29 0 0
SIR_NOPN1B SIR_NOPN_2 SIR_NOPR1B	0 18 0	1 0 0 0 0	31 0 0 0 0	0 0 0 43	0 0 23 0 0	0 0 0 0 53	0 0 29 0 0

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SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	26	0	0	6	29	0	3
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	25	17	45	46	29
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	39	0	2	56	31	12

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1B	0	0	0	1	0	0	0
SIR_NOPM_2	42	0	6	1	0	0	0
SIR_NOPN1B	0	0	0	0	0	39	0
SIR_NOPN_2	30	27	12	0	2	0	0
SIR_NOPR1B	0	0	0	0	0	149	8
SIR_NOPR_2	37	45	1	0	2	0	0

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

## 7.3 Missing QCC Reports

Number of products with missing QCC reports:

0