

QA4EO Daily Report for NOP data:

<u>15/02/2023</u>

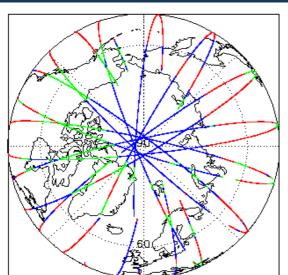
IDEAS-QA4E0

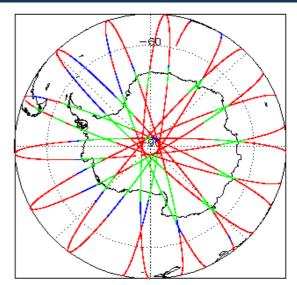
Panart Braduation	16 Eab 2022	Check	L1 & L2
Report Production:	16-Feb-2023	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal
		Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Used:	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
We would love to hear from you! 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

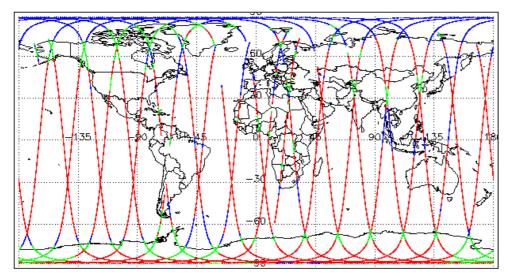
1. Overview

15-Feb-2023None16-Feb-2023Nothing planned

2. Global Coverage









LRM
SAR
SARIn

3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inc	onsistencies and/or errors raised by the ground-segment processing chain.			
> L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B NOPR and NOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and DSARIn chains. A modification is required in the next release.					
lumber of products with errors: 0					
4.3 L1B Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre-	-determined baseline and also t	o check the validity of Auxiliary Data Files is correct.			
> Dynamic Atmospheric Correction: The DAC is missing in all products beca	use the auxiliary files required a	re not available in time for processing. This known and expected behaviour.			
Number of products with errors: 0					
4.4 L1B Auxiliary Correction Error Check					
CryoSat L1B data includes a correction error flag for each measurement record	I. The bit value of this flag indica	tes any problems when set.			
Number of products with errors: 0					
4.5 L1B Measurement Confidence Data Check					
CryoSat L1B data includes a measurement confidence flag for each measurem	ent record. The bit value of this	flag indicates any problems when set.			
> Attitude Correction Missing: This flag is currently set in error for NOPR pro updated in the next SW update.	ducts due to a configuration iss	e. The attitude 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.	. The bit value of this flag indica	es any problems when set.			
> Loss of Echo Flag: This flag is currently set for occasional products over lan	nd, but this is to be expected.				
Number of products with errors: 21					
	Test Failed	Description			
Product	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001		•			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001	Loss of Echo 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 The tracking echo is missing for one or more records			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T170706_C001	Loss of Echo Loss of Echo 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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T170706_C001 CS_OFFL_SIR_NOPM1B_20230215T023908_20230215T024433_C001	Loss of Echo 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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
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Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T170706_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T1024433_C001 CS_OFFL_SIR_NOPN1B_20230215T023908_20230215T024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T051138_20230215T051348_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 The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
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Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T1024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T050588_20230215T051348_C001 CS_OFFL_SIR_NOPN1B_20230215T050588_20230215T055425_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_2030215T06549_C001 CS_OFFL_SIR_NOPN1B_20230215T082202_20230215T082218_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T082218_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114143_C001 CS_OFFL_SIR_NOPN1B_20230215T163739_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T181504_20230215T181920_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e			
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Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T1023908_20230215T024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T051138_20230215T051348_C001 CS_OFFL_SIR_NOPN1B_20230215T05058_20230215T055425_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_20230215T065049_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_20230215T065049_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T1114113_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114143_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114143_C001 CS_OFFL_SIR_NOPN1B_20230215T1181504_20230215T1181920_C001 CS_OFFL_SIR_NOPN1B_20230215T1212850_20230215T131436_C001 CS_OFFL_SIR_NOPN1B_20230215T212850_20230215T213436_C001 CS_OFFL_SIR_NOPN1B_20230215T212850_20230215T233440_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T023908_20230215T024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T05058_20230215T051348_C001 CS_OFFL_SIR_NOPN1B_20230215T05058_20230215T055425_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_20230215T065049_C001 CS_OFFL_SIR_NOPN1B_20230215T01082202_20230215T082218_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114143_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114143_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114132_C001 CS_OFFL_SIR_NOPN1B_20230215T1181504_20230215T181920_C001 CS_OFFL_SIR_NOPN1B_20230215T212850_20230215T233440_C001 CS_OFFL_SIR_NOPN1B_20230215T001613_20230215T001950_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T023908_20230215T024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T051138_20230215T051348_C001 CS_OFFL_SIR_NOPN1B_20230215T05058_20230215T055425_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_20230215T065049_C001 CS_OFFL_SIR_NOPN1B_20230215T01082202_20230215T082218_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T11413_C001 CS_OFFL_SIR_NOPN1B_20230215T163739_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T181504_20230215T13436_C001 CS_OFFL_SIR_NOPN1B_20230215T212850_20230215T233440_C001 CS_OFFL_SIR_NOPN1B_20230215T001613_20230215T001950_C001 CS_OFFL_SIR_NOPN1B_20230215T001613_20230215T0014343_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T023908_20230215T024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T051138_20230215T051348_C001 CS_OFFL_SIR_NOPN1B_20230215T05058_20230215T055425_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_20230215T065049_C001 CS_OFFL_SIR_NOPN1B_20230215T1082202_20230215T082218_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T105344_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T181504_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T181504_20230215T233440_C001 CS_OFFL_SIR_NOPN1B_20230215T001613_20230215T01950_C001 CS_OFFL_SIR_NOPN1B_20230215T001613_20230215T0141343_C001 CS_OFFL_SIR_NOPR1B_20230215T001613_20230215T0141343_C001 CS_OFFL_SIR_NOPR1B_20230215T0040758_20230215T04424242_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T1040758_C001 CS_OFFL_SIR_NOPM1B_20230215T1023908_20230215T024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T051138_20230215T051348_C001 CS_OFFL_SIR_NOPN1B_20230215T05058_20230215T055425_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_20230215T065049_C001 CS_OFFL_SIR_NOPN1B_20230215T082202_20230215T082218_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114143_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T114143_C001 CS_OFFL_SIR_NOPN1B_20230215T181504_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T181504_20230215T131436_C001 CS_OFFL_SIR_NOPN1B_20230215T233235_20230215T233440_C001 CS_OFFL_SIR_NOPN1B_20230215T01613_20230215T01950_C001 CS_OFFL_SIR_NOPN1B_20230215T0101613_20230215T0141343_C001 CS_OFFL_SIR_NOPR1B_20230215T040758_20230215T044242_C001 CS_OFFL_SIR_NOPR1B_20230215T044041_20230215T044242_C001 CS_OFFL_SIR_NOPR1B_20230215T044041_20230215T04	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e			
Product CS_OFFL_SIR_NOPM1B_20230215T024558_20230215T031532_C001 CS_OFFL_SIR_NOPM1B_20230215T035537_20230215T040758_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T152912_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T165736_20230215T154021_C001 CS_OFFL_SIR_NOPM1B_20230215T023908_20230215T024433_C001 CS_OFFL_SIR_NOPN1B_20230215T050903_20230215T051014_C001 CS_OFFL_SIR_NOPN1B_20230215T051138_20230215T051348_C001 CS_OFFL_SIR_NOPN1B_20230215T05058_20230215T055425_C001 CS_OFFL_SIR_NOPN1B_20230215T064824_20230215T065049_C001 CS_OFFL_SIR_NOPN1B_20230215T1082202_20230215T082218_C001 CS_OFFL_SIR_NOPN1B_20230215T101028_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T114113_20230215T101512_C001 CS_OFFL_SIR_NOPN1B_20230215T11413_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T1163739_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T181504_20230215T163941_C001 CS_OFFL_SIR_NOPN1B_20230215T212850_20230215T233440_C001 CS_OFFL_SIR_NOPN1B_20230215T001613_20230215T01950_C001 CS_OFFL_SIR_NOPN1B_20230215T001613_20230215T0141343_C001 CS_OFFL_SIR_NOPR1B_20230215T040758_20230215T0442424_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e			

5.1 L2 Product Format Check

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

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

0

0

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

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

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

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> 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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230215T002142_20230215T002214_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_20230215T001507_20230215T001611_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230215T005329_20230215T005454_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_20230215T010004_20230215T010312_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20230215T023412_20230215T023701_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_20230215T023908_20230215T024433_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_20230215T033004_20230215T033035_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20230215T041343_20230215T041619_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_20230215T050903_20230215T051014_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_20230215T054552_20230215T054726_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_20230215T055058_20230215T055425_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_20230215T064824_20230215T065049_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_20230215T065057_20230215T065303_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_20230215T073107_20230215T073257_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_20230215T074116_20230215T074336_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_20230215T082821_20230215T083247_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_20230215T101028_20230215T101512_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20230215T105042_20230215T105420_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_20230215T115151_20230215T115342_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_20230215T123006_20230215T123324_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_20230215T123837_20230215T124002_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_20230215T132056_20230215T132203_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_20230215T141743_20230215T141850_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_20230215T150008_20230215T150120_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_20230215T163739_20230215T163941_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_20230215T173317_20230215T173927_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_20230215T181504_20230215T181920_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_20230215T190354_20230215T190624_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_20230215T191250_20230215T191602_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_20230215T195355_20230215T195743_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_20230215T205340_20230215T205457_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_20230215T212850_20230215T213436_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_20230215T015427_20230215T020441_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_20230215T050229_20230215T050544_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_20230215T050544_20230215T050903_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_20230215T062051_20230215T062736_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_20230215T064206_20230215T064824_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_20230215T082350_20230215T082820_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_20230215T100040_20230215T101028_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_20230215T114144_20230215T114931_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_20230215T132203_20230215T132932_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_20230215T150121_20230215T150834_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_20230215T164036_20230215T164747_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_20230215T170707_20230215T170908_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_20230215T181920_20230215T182512_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_20230215T182512_20230215T182616_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_20230215T195743_20230215T200618_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_20230215T213437_20230215T214217_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

1

1

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.

85

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20230214T232636_20230215T000021_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_20230215T001414_20230215T001506_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_20230215T003341_20230215T005326_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_20230215T005455_20230215T010004_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_20230215T010521_20230215T014020_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_20230215T014159_20230215T014210_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_20230215T014219_20230215T014225_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_20230215T014228_20230215T014244_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_20230215T015416_20230215T015427_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_20230215T020958_20230215T022732_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_20230215T023029_20230215T023212_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_20230215T024558_20230215T031532_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_20230215T033508_20230215T035323_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_20230215T035537_20230215T040758_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_20230215T041619_20230215T041818_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_20230215T041936_20230215T042320_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_20230215T042502_20230215T044040_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_20230215T044242_20230215T045205_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_20230215T045845_20230215T045852_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_20230215T052001_20230215T053125_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_20230215T054727_20230215T054847_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_20230215T055434_20230215T060223_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_20230215T060409_20230215T061946_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_20230215T063400_20230215T063408_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_20230215T065745_20230215T073031_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_20230215T073526_20230215T074115_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_20230215T074336_20230215T080930_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_20230215T084048_20230215T090914_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_20230215T091509_20230215T091931_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_20230215T092221_20230215T095024_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_20230215T095041_20230215T095052_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_20230215T101512_20230215T104821_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_20230215T105420_20230215T105958_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_20230215T110120_20230215T110742_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_20230215T113100_20230215T113122_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_20230215T115342_20230215T122807_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_20230215T123325_20230215T123837_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_20230215T124021_20230215T130023_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_20230215T130919_20230215T131046_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_20230215T133205_20230215T140554_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_20230215T141058_20230215T141325_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_20230215T141939_20230215T144828_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_20230215T145808_20230215T150007_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_20230215T151422_20230215T152303_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_20230215T152743_20230215T152906_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_20230215T152912_20230215T154021_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_20230215T154130_20230215T154527_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_20230215T154705_20230215T155224_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_20230215T160331_20230215T161553_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_20230215T161816_20230215T163003_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_20230215T163250_20230215T163429_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_20230215T165736_20230215T170706_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_20230215T170942_20230215T172439_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_20230215T172631_20230215T173137_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_20230215T173927_20230215T174122_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_20230215T175922_20230215T180154_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_20230215T180317_20230215T180543_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_20230215T183531_20230215T183552_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_20230215T184651_20230215T190354_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_20230215T190624_20230215T191054_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_20230215T191116_20230215T191250_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_20230215T191650_20230215T194228_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_20230215T201710_20230215T204333_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_20230215T204449_20230215T205009_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_20230215T205015_20230215T205340_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_20230215T205558_20230215T212416_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_20230215T212542_20230215T212850_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_20230215T215232_20230215T215424_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_20230215T215527_20230215T222303_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_20230215T222435_20230215T222911_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_20230215T223517_20230215T231028_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_20230215T233821_20230215T234250_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_20230215T235422_20230216T000234_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_20230215T032339_20230215T032432_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_20230215T053126_20230215T053308_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_20230215T065622_20230215T065745_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_20230215T123837_20230215T124002_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_20230215T172446_20230215T172631_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_20230215T182616_20230215T182631_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_20230215T235150_20230215T235154_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_20230215T065304_20230215T065342_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_20230215T095752_20230215T100031_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_20230215T112824_20230215T112850_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_20230215T144828_20230215T144846_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_20230215T180707_20230215T180723_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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20230215T000345_20230215T000353_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_20230215T001223_20230215T001243_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_20230215T001507_20230215T001611_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_NOPN_2_20230215T023908_20230215T024433_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records
CS_OFFL_SIR_NOPN_2_20230215T032339_20230215T032432_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_20230215T041343_20230215T041619_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_NOPN_2_20230215T045206_20230215T045514_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_NOPN_2_20230215T050903_20230215T051014_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_NOPN_2_20230215T051138_20230215T051348_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_NOPN_2_20230215T053126_20230215T053308_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_20230215T054552_20230215T054726_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_NOPN_2_20230215T055058_20230215T055425_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_20230215T060223_20230215T060409_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records
CS_OFFL_SIR_NOPN_2_20230215T062902_20230215T063239_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records
CS_OFFL_SIR_NOPN_2_20230215T064824_20230215T065049_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_20230215T065057_20230215T065303_C001	Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter 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_20230215T065622_20230215T065745_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_20230215T073107_20230215T073257_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_20230215T074116_20230215T074336_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_20230215T080930_20230215T081306_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_20230215T082821_20230215T083247_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one of more records

CS_OFFL_SIR_NOPN_2_20230215T091336_20230215T091508_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality DCOG BACKSCATT	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T091932_20230215T092212_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter more records	er Quality Flags have been set for one or
	A, SWH and Backscatter Quality Flags nd Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230215T105042_20230215T105420_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter more records	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T105958_20230215T110113_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG BACKSCATTER DLRM	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T112946_20230215T113059_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DERM, OCOG Backscatter QUALITA DERM, OCOG Backscatter QUALITA DERM, OCOG BACKSCATTER DERM, OCOG BACKSCATTER DERM, OCOG	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T115151_20230215T115342_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter more records	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T130024_20230215T130336_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DERM, OCOG Backscatter QUALITA DERM, OCOG Backscatter QUALITA DERM, OCOG BACKSCATTER DERM, OCOG BACKSCATTER DERM, OCOG BACKSCATTER DERM, OCOG BACKSCAT	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T140720_20230215T141058_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUA	er Quality Flags have been set for one or
	A, SWH and Backscatter Quality Flags nd Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230215T155447_20230215T155635_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality DCOG Backscatter QUALITY	er Quality Flags have been set for one or
	A, SWH and Backscatter Quality Flags nd Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230215T181029_20230215T181152_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG BACKSCATTER DLRM, OCOG BACKSCATTER DLRM, OCOG BACKSCATTER DLRM, OCOG BACKSCAT	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T181504_20230215T181920_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter more records	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T190354_20230215T190624_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter more records	er Quality Flags have been set for one or
	A, SWH and Backscatter Quality Flags nd Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230215T205340_20230215T205457_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG Backscatter QUALITA DLRM, OCOG BACKSCATTER DLRM, OCOG BACKSCATTER DLRM, OCOG	er Quality Flags have been set for one or
	A, SWH and Backscatter Quality Flags nd Backscatter Quality Flags have been
	A, SWH and Backscatter Quality Flags nd Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20230215T222311_20230215T222435_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality DCOG	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPN_2_20230215T235150_20230215T235154_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DLRM, or encoded backscatter QUAL, or encoded backscatter QUAL, or encoded backscatter QUAL, or encoded backscatter QUAL,	er Quality Flags have been set for one or
	A, SWH and Backscatter Quality Flags nd Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20230215T001613_20230215T001950_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter more records	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPR_2_20230215T014247_20230215T014253_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Ocog Backscatter Quality OCOG Backscatter Quality OCOG Backscatter Quality DLRM, Nore records	er Quality Flags have been set for one or
CS_OFFL_SIR_NOPR_2_20230215T015427_20230215T020441_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter more records	er Quality Flags have been set for one or

CS_OFFL_SIR_NOPR_2_20230215T031532_20230215T031955_C001 Attimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPR_2_20230215T032243_20230215T032339_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags CS_OFFL_SIR_NOPR_2_20230215T032243_20230215T032339_C001 OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags CS_OFFL_SIR_NOPR_2_20230215T040759_20230215T041343_C001 Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Ocean Altimeter Range and Backscatter Quality PLRM, OCOG The Ocean Altimeter Range and Backscatter Quality PLRM, OCOG	
CS_OFFL_SIR_NOPR_2_20230215T032243_20230215T032339_C001 OCOG Backscatter Quality more records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	have been set for one or
CS_OFFL_SIR_NOPR_2_20230215T040759_20230215T041343_C001 Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality et and the OCOG Altimeter Range and Backscatter Quality	
PLRM set for one or more records	
CS_OFFL_SIR_NOPR_2_20230215T050229_20230215T050544_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 PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T050544_20230215T050903_C001 OCean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Ba and the OCOG Altimeter Range and Backscatter Quality PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T051349_20230215T051751_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 PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T062051_20230215T062736_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags more records	have been set for one or
CS_OFFL_SIR_NOPR_2_20230215T062738_20230215T062803_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality COG Backscatter QUA	have been set for one or
CS_OFFL_SIR_NOPR_2_20230215T065304_20230215T065342_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Ba and the OCOG Altimeter Range and Backscatter Quality PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T065407_20230215T065622_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPR_2_20230215T081942_20230215T082202_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Ba and the OCOG Altimeter Range and Backscatter Quality PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T082218_20230215T082317_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T082350_20230215T082820_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPR_2_20230215T095752_20230215T100031_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T100040_20230215T101028_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPR_2_20230215T104821_20230215T105041_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 PLRM The Ocean Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPR_2_20230215T114144_20230215T114931_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Ba	
CS_OFFL_SIR_NOPR_2_20230215T115105_20230215T115112_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Flags more records	have been set for one or
CS_OFFL_SIR_NOPR_2_20230215T131821_20230215T132056_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Ba	
CS_OFFL_SIR_NOPR_2_20230215T132203_20230215T132932_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Ba and the OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPR_2_20230215T150121_20230215T150834_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Ba and the OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_NOPR_2_20230215T155635_20230215T155820_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Ba and the OCOG Altimeter Range and Backscatter Quality PLRM.	
CS_OFFL_SIR_NOPR_2_20230215T161602_20230215T161816_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality more records	have been set for one or
CS_OFFL_SIR_NOPR_2_20230215T163430_20230215T163739_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM. The Ocean Altimeter Range, SSHA, SWH and Ba	
CS_OFFL_SIR_NOPR_2_20230215T164036_20230215T164747_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Set for one or more records	
CS_OFFL_SIR_NOPR_2_20230215T174122_20230215T174429_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality Cocod	have been set for one or

CS_OFFL_SIR_NOPR_2_20230215T180707_20230215T180723_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_20230215T181152_20230215T181409_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_20230215T181420_20230215T181504_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_20230215T181920_20230215T182512_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_20230215T195743_20230215T200618_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_20230215T213437_20230215T214217_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_20230215T214426_20230215T214507_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_20230215T215143_20230215T215232_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_20230215T231201_20230215T231236_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_20230215T233440_20230215T233517_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

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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

144

> 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.

7

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	196	196	5	191	0
SIR_NOPR1B	114	114	0	114	0
SIR_NOPN1B	108	108	1	107	0
SIR_NOPM_2	196	196	148	48	0
SIR_NOPR_2	114	114	42	70	2
SIR_NOPN_2	108	108	42	66	0

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrences of each error											
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPR_2		1	2	2	1	2					
Test Descriptio	n Key:										
Abbreviation	Test na	me		Details							
RLOBOPNCDF	RangeLa	titudeOrBlankOP_	7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF							
RL	RangeLa	titude_6		Latitude should be between -90E6 and 90E6							
RL	RangeLa	titude_7		Latitude should be between -90E7 and 90E7							

PLRMNCD

7.2 QCC Warnings

		<u> </u>						
1	Number of QCC repor	rts with warnings	1692					
				Total num	per of occurrences of ea	ach warning		
	Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDP
	SIR_NOPM1B	191	0	0	0	0	0	0
	SIR_NOPM_2	0	0	35	39	0	37	0
	SIR_NOPN1B	105	0	0	0	0	0	0
	SIR_NOPN_2	0	0	8	37	3	28	33
	SIR_NOPR1B	111	0	0	0	0	0	0
	SIR_NOPR_2	0	2	26	36	0	25	25

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARN	CERPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	31	0	30	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	19	0	0	0	18	0	37
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	13	1	0	37	0	42	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	26	0	0	6	26	0	7
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	28	17	47	52	28
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	35	0	2	54	29	8
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	33	0	4	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	51	0
SIR_NOPN_2	27	32	11	0	0	0	0
SIR_NOPR1B	0	0	0	0	0	114	8
SIR NOPR 2	30	36	2	1	9	0	0

Abbreview Value Value 000000000000000000000000000000000000	Test Description Key:							
OHHMOOR Indexploring of 20 Hz in 14 managements should be line many of 20 mumber of 14 kz samples - 1 MOIDEPEDNDEF Missing Value/InDexenExcluding/Point/ED2MetOF The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees MOIDEPEDNDEF Missing Value/InDexenExcluding/Point/HEDE The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees MOIDEPENDEF Missing Value/InDexenExcluding/Point/ED2MetOF The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees RBSZOPDEFENDEF Regrees/assampting/mazzine/OpcenExcluding/Point/ED2MetOF The backstant sign zaroo Inculd be between 700 and 7500 (or missing) for surface type - ocean for latitudes between -700 and 70 degrees RBSZOPDEFENDEF RangeNELEDTONCOF RegreeSelEndending/Point/ED2MetAGEF The backstant sign zaroo Inculd be between -700 and 70 degrees RBEEPOFEDLINNDF RegreeSelEndending/Point/ED2MetAGEF The backstant sign zaroo Inculd be between -700 and 70 degrees RBEEPOFEDLINNDF RegreeSelEndending/Point/ED2MARMetCDF The backstant sign zaroo Inculd be between -700 and 70 degrees RBEEPOFEDLINNDF RegreeSelEndending/Point/ED2MARMetCDF The Pointreas should be between 0 and 15000 (or missing) for surface type - ocean for latitudes between -700 and 70 degrees RBEEPOFELINNDEF RegreeSelEndendi	Abbreviation	Test name	Details					
MVICEPEDNCDF Missing Value Into Search Science Sciene Science Science Science	BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter					
MODEPROFID Masing ValueInt/CeanEls/cubdingPolar/NBCDF The value should not be a missing value' for surface type 0 only for latitudes between 70 and 70 degrees MODEPROFID Resign ValueInt/CeanEls/cubdingPolar/NBCDF The backscatter sign az row 0 hold be between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type 0 coene for latitudes between 70 and 700 (or missing) for surface type - coene for latitudes between 70 and 700 (or missing) for surface type - coene for latitudes between 70 and 700 (or missing) for surface type - coene for latitudes between 70 and 70 degrees RPEPOPFDENRINGP Respected/Polar/OPED2FURMSNNwCDF The Pakiness should be between 0 and 4500 (or missing) for surface type - coene for latitudes between 70 and 70 degrees RPEPOPFDENRINDF Respected/Polar/OPED2FURMSNNwCDF The Pakiness should be between 0 and 4500 (or missing) for surface type - coene for latitudes between 70 and 70 degrees RPEPOPFDSINNDF Respeceskiness beculute protein	IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)					
MVIONCDF Musing ValueInt/CeantNet/CDF The value should no be a missing value' for surface type 0 only RBSZOPOEPFDCPF RangeBackscatterSigmaZnoOPCeantExcludingPolarEPEXetCPF The backscatter sigmaZnoOPCeantExcludingPolarEPEXetCPF RBSZOPOEPFDCFF RangeBackscatterSigmaZnoOPCeantExcludingPolarEPD2FLRMMetCDF The backscatter sigmaZnoOPCeantExcludingPolarEPD2FLRMMetCDF RBSZOPOEFFDCF RangeBackscatterSigmaZnoOPCeantExcludingPolarED2FLRMMetCDF The backscatter sigmaZnoOPCeantExcludingPolarED2FLRMMetCDF REFEOFFDLRMMCDF RangePeakinesEscludingPolarOFFD2LRMMetCDF The backscatter sigmaZnoOPCeantExcludingPolarOFFD2LRMMetCDF REFEOFFDLRMMCDF RangePeakinesEscludingPolarOFFD2LRMMetCDF The backscatter sigmaZnoOPCeantExcludingPolarOFFD2LRMMetCDF REFEOFFDLRMMCDF RangePeakinesEscludingPolarOFFD2LRMMetCDF The Pacinese should be between 0 and 4500 (or missing) for surface type - ocean for latitudes between 70 and 70 dogrees REFEOFFDLRMSIND RangePeakinesEscludingPolarOFFD2PLRMSRMMetCDF The Pacinese should be between 0 and 45000 (or missing) for surface type - ocean for latitudes between 70 and 70 dogrees REFEOFFDLRMNCDF RangePeakinesExcludingPolarOFFD2PLMSRMMetCDF The Pacinese should be between 0 and 45000 (or missing) for surface type - ocean for latitudes between 70 and 70 dogrees REFEOFFDLRMNCDF RangePeakinesExcludingPolarOFFD2PLMSRMSRMECDF The Pacineses should be	MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
RBSZOPCEPEPDICADD magaBackacatterSigmaZercoPOceanExcludingPolarFD2NetCDF The backacatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes RBSZOPCEPEPDICADD RangeBackacatterSigmaZercoPOceanExcludingPolarFD2PLENNetCDF Extension 700 and 70 degrees RBSZOPCEPENCDF RangeBackacatterSigmaZercoPOceanExcludingPolarFD2PLENNetCDF Extension 700 and 70 degrees RBSZOPOEPENCDF RangeBackacatterSigmaZercoPOceanExcludingPolarNetCDF Extension 700 and 70 degrees RPEPOPFDLENNCDF RangePackacatterSigmaZercoPOceanExcludingPolarNetCDF The Non-equilibrium long period ocean backing lide height abould be between 700 and 7500 (or missing) for surface type = ocean for latitudes RPEPOPFDLENNCDF RangePackinessExcludingPolarOFFD2LRNNetCDF The Packiness should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between 70 RPEPOPFDLRNNCDF RangePackinessExcludingPolarOFFD2LRNNetCDF The Packiness should be between 70 and 70 degrees RPEPOPFDSINNCDF RangePackinessExcludingPolarOFFD2LRNNetCDF The Packiness should be between 70 and 70 degrees RPEPOPFDSINNCDF RangePackinessExcludingPolarOFFD2LRNNetCDF The Packiness should be between 70 and 70 degrees RPEPOPFDSINNCDF RangePackinessExcludingPolarOFFD2LRNNetCDF The Packiness should be between 70 and 70 degrees RPEPOPFDSINNCDF <td>MVIOEPNCDF</td> <td>MissingValueIntOceanExcludingPolarNetCDF</td> <td>The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees</td>	MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees					
Integer Integer <t< td=""><td>MVIONCDF</td><td>MissingValueIntOceanNetCDF</td><td>The value should not be a 'missing value' for surface type 0 only</td></t<>	MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only					
NCDF Hangeleakceattersignazzeno/DPCesent.sculudingPolar/DP2HUNNECDF between 70 and 70 degrees Attach RBSZOPOEPNCDF RangeBackscatterSignazzeno/DPCesent.SculudingPolar/NECDF The AttachScatter signazzeno/DPCesent.SculudingPolar/NECDF The AttachScatter signazzeno/DPCesent.SculudingPolar/NECDF RPEPOFDELRNINCDF RangePeakinessExculudingPolar/OFD22RINNECDF The Peakiness shuld be between 0 and 5000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOFDELRNINCDF RangePeakinessExculudingPolar/OFD22RINSINNECDF The Peakiness shuld be between 0 and 5000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOFDELNNINCDF RangePeakinessExculudingPolar/OFD22RINSINNECDF The Peakiness shuld be between 0 and 5000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOFDENNINCDF RangePeakinessExculudingPolar/OFD22RINSINNECDF The Peakiness shuld be between 0 and 5000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOFDSINNCDF RangePeakinessExculudingPolar/OFD22SINNECDF The Peakiness shuld be between 0 and 5000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOFSINNCDF RangePeakinessExculudingPolar/OFIZSINNECDF The Peakiness shuld be between 0 and 5000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RSSECONCDF RangeSeasUtaceHeightAno	RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF						
InstSchOrtErNcDr RangeBackstation between Detween Option Option RNELPOCONCDF RangeNELPOCeanTide/CeanTide/CeanNiet/CDF The Non-equilibrium ong period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean for latitudes between -70 RPEPOPFDLRMNCDF RangePeakinessExcludingPelarOPFD2LRMNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between -70 RPEPOPFDLRMSINN RangePeakinessExcludingPelarOPFD2PLRMSINNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between -70 RPEPOPFDLRMSINN RangePeakinessExcludingPelarOPFD2PLRMSINNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between -70 RPEPOPFDSINNCDF RangePeakinessExcludingPelarOPFD2SRNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between -70 RPEPOPFDSINNCDF RangePeakinessExcludingPelarOPFD2SRNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between -70 RPEPOPFDSINNCDF RangePeakinessExcludingPelarOPFDRSRNetCDF The Peakiness should be between 0 and 5000 (or missing) for surface type = ocean for latitudes between -70 RPEPOPSINNCDF RangePeakinessExcludingPelarOPSRNetCDF The Seal state Bias correction should be between -50		RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF						
IntelEPCONCOP IndigNetEPCoefficient National Inductor IndigNetEPCOEF Surface type = cocan RPEPOPFDLRMNCDF RangePaskinessExcludingPolar/OFFD2LRMNAtCDF The Peakiness should be between 0 and 6400 (or missing) for surface type = cocan for latitudes between -70 and 70 degrees RPEPOPFDLRMSRAR RangePaskinessExcludingPolar/OFFD2LRMSARNetCDF The Peakiness for uld to between 0 and 15000 (or missing) for surface type = cocan for latitudes between -70 and 70 degrees RPEPOPFDLRMSINN RangePaskinessExcludingPolar/OFFD2LRMSINNetCDF The Peakiness for uld to between 0 and 90000 (or missing) for surface type = cocan for latitudes between -70 and 70 degrees RPEPOPFDLRMSINN RangePaskinessExcludingPolar/OFFD2SARNetCDF The Peakiness for uld to between 0 and 15000 (or missing) for surface type = cocan for latitudes between -70 and 70 degrees RPEPOPFDSINNCDF RangePaskinessExcludingPolar/OFFD2SARNetCDF The Peakiness for uld to between 0 and 4600 (or missing) for surface type = cocan for latitudes between -70 and 70 degrees RPEPOPFSINNCDF RangePaskinessExcludingPolar/OFASARNetCDF The Peakiness for uld to between 0 and 4600 (or missing) for surface type = cocan for latitudes between -70 and 70 degrees RPEPOPSINNCDF RangePaskinessExcludingPolar/OFASARNetCDF The Peakiness for uld to between 0 and 4600 (or missing) for surface type = cocan for latitudes between -70 and 70 degrees RSSHAOCFDNCDF RangeSestitaBilisCorrectionCocanNetCDF The	RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF						
InterCorp DLFNINCODF and 70 degrees and 70 degrees RPEPOPEDLENKSAR RangePeakinessExcludingPolarOPED2LENKSARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPEDLENKSIN RangePeakinessExcludingPolarOPED2LENKSARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPEDSARNCDF RangePeakinessExcludingPolarOPED2SARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPEDSINNCDF RangePeakinessExcludingPolarOPED2SARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPEDSINNCDF RangePeakinessExcludingPolarOPEANNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPEANNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolarOPSARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees RSSECONCDF RangeSeasurfaceHeightAnomalyOceanFEODF The seas state bias correction should be between -3000mm and 0mm (or missing) for surface type = ocean	RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF						
NDDF Hangereakmessizkulturgroan/UPU2PLMMSARMetCDF and 70 degrees Note Mathematic RPEPOPFDPLRMSINN RangePeakmessExcludingPolar/OPD2PLMSINNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOPFDSRNCDF RangePeakmessExcludingPolar/OPFD2SARNetCDF The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolar/OPFD2SINNetCDF The Peakiness should be between 0 and 4000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOPFDSINNCDF RangePeakinessExcludingPolar/OPFD2SINNetCDF The Peakiness should be between 0 and 4000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolar/OPSARNetCDF The Peakiness should be between 0 and 4000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RPEPOPSINNCDF RangePeakinessExcludingPolar/OPSARNetCDF The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RSSECONCDF RangeSeaSitateBiasCorrectionOceanNetCDF The sea state bias correction should be between 3000mm and 3000mm (or missing) for surface type = ocean for latitudes between 70 and 70 degrees RSSHAOFDPLRMNCDF RangeSeaSurfaceHeightAnomalyOceanNetCDF	RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF						
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	SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample					
SCSTODNCDF SequenceCounterStepTODNetCDF The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter	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