

QA4EO Daily Report for NOP data:

22/04/2021

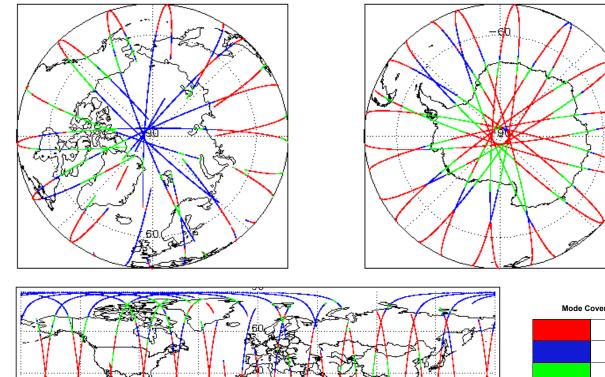
) an aut Duaduation.	22 Apr 2024	Check	L1 & L2
Report Production:	23-Apr-2021	Server check: science-pds.cryosat.esa.int	Nominal
Deserves and the set		Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Used:	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
		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

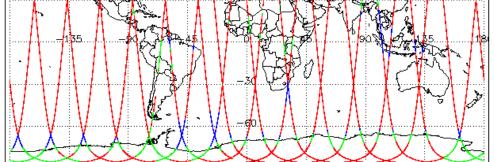
1. Overview

21-Apr-2021	NONE
22-Apr-2021	None
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23-Apr-2021 Nothing planned

2. Global Coverage





Mode Coverage		
	LRM	
	SAR	
	SARIn	

'n.

3. Instrument Configuration

The SIRAL instrument configuration for the day of acquisition is provided below.			
SIRAL instrument(s) in use:	SIRAL - A		

Star Tracker(s) in use:	Star Tracker 1

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

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I.2 L1B Product Header Analysis				
or all products, a series of pre-defined checks are performed on the MPH and	I SPH in order to identify any inconsi	istencies and/or errors raised by the ground-segment processing chain.		
1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1F	B IOPR and IOPN products because	the I1b_processing_quality_hr field is not correctly configured in the OSAR and		
SARIn chains. A modification is required in the next release.				
Number of products with errors: 0				
.3 L1B Auxilary Data File Usage Check				
ach product is checked for missing Data Set Descriptors with respect to a pre	-determined baseline and also to ch	neck the validity of Auxiliary Data Files is correct.		
ynamic Atmospheric Correction: The DAC is missing in all products becau	se the auxiliary files required are no	t available in time for processing. This known and expected behaviour.		
umber of products with errors: 0				
.4 L1B Auxiliary Correction Error Check				
ryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indicates	any problems when set.		
umber of products with errors: 0				
.5 L1B Measurement Confidence Data Check				
ryoSat L1B data includes a measurement confidence flag for each measurem	ant record. The hit value of this flag	indicates any problems when set		
Attitude Correction Missing: This flag is currently set in error for NOPR pro	-			
umber of products with errors: 1	sauces due to a configuration issue.	The is being investigated and win be updated in the next ove update.		
roduct	Test Failed	Description There is an error in the scaling of the L1B waveform for one or more		
S_OFFL_SIR_NOPM1B_20210422T163832_20210422T170357_C001	Power scaling error	records		
.6 L1B Waveform Group Data Check				
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yoSat L1B data includes a waveform data flag for each measurement record	I. The bit value of this flag indicates a	any problems when set.		
Loss of Echo Flag: This flag is currently set for products over land, but this	is to be expected.			
umber of products with errors: 18				
roduct	Test Failed			
	restraneu	Description		
	Loss of Echo	Description The tracking echo is missing for one or more records		
S_OFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001				
S_OFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001	Loss of Echo	The tracking echo is missing for one or more records		
S_OFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T022215_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		
S_OFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T022215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_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		
S_OFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPM1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T022215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T113337_20210422T113902_C001	Loss of Echo 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 The tracking echo is missing for one or more records		
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S_OFFL_SIR_NOPN1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T02215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T113337_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T145837_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T171630_20210422T171646_C001 S_OFFL_SIR_NOPN1B_20210422T203231_20210422T203325_C001 S_OFFL_SIR_NOPN1B_20210422T203541_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T02155_20210422T023611_C001 S_OFFL_SIR_NOPN1B_20210422T021455_20210422T021629_C001 S_OFFL_SIR_NOPR1B_20210422T072747_20210422T073232_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking e		
S_OFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T02215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T13337_20210422T13902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162837_C001 S_OFFL_SIR_NOPN1B_20210422T16230_20210422T16276_C001 S_OFFL_SIR_NOPN1B_20210422T171630_20210422T171646_C001 S_OFFL_SIR_NOPN1B_20210422T203231_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T02331_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T023341_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T0210422T03334_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T0210422T03334_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T0210422T02334_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T0210422T02334_20210422T03325_C001 S_OFFL_SIR_NOPR1B_20210422T0210422T02334_20210422T03325_C001 S_OFFL_SIR_NOPR1B_20210422T0210422T02344_20210422T03332_C001 S_OFFL_SIR_NOPR1B_20210422T072747_20210422T073232_C001 S_OFFL_SIR_NOPR1B_20210422T141024_20210422T141218_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
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GOFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T01422T04001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T022215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T13337_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T162837_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T171630_20210422T171646_C001 S_OFFL_SIR_NOPN1B_20210422T03331_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T0210422T0210422T03232_C001 S_OFFL_SIR_NOPN1B_20210422T072747_20210422T073232_C001 S_OFFL_SIR_NOPR1B_20210422T17455_20210422T141218_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T154525_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking e		
S_OFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T02215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T13337_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T162837_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T17630_20210422T171646_C001 S_OFFL_SIR_NOPN1B_20210422T03321_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T021055_20210422T03232_C001 S_OFFL_SIR_NOPN1B_20210422T072747_20210422T073232_C001 S_OFFL_SIR_NOPR1B_20210422T072747_20210422T15455_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T154525_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking e		
S_OFFL_SIR_NOPN1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T0140210422T02215_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T02215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T13337_20210422T13902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T145837_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T162302_10422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T1030_20210422T1646_C001 S_OFFL_SIR_NOPN1B_20210422T203231_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T021455_20210422T03611_C001 S_OFFL_SIR_NOPN1B_20210422T021455_20210422T03232_C001 S_OFFL_SIR_NOPR1B_20210422T072747_20210422T073232_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T154525_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T20513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T20513_20210422T22053_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking e		
S_OFFL_SIR_NOPN1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T02215_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T022215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T103205_C001 S_OFFL_SIR_NOPN1B_20210422T13337_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T145837_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T16230210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T1030210422T102726_C001 S_OFFL_SIR_NOPN1B_20210422T203231_20210422T203325_C001 S_OFFL_SIR_NOPN1B_20210422T203541_20210422T03611_C001 S_OFFL_SIR_NOPN1B_20210422T021455_20210422T02362_C001 S_OFFL_SIR_NOPN1B_20210422T021455_20210422T03232_C001 S_OFFL_SIR_NOPR1B_20210422T072747_20210422T073232_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T20513_20210422T20333_C001 S_OFFL_SIR_NOPR1B_20210422T20513_20210422T22053_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T22053_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T22053_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T222057_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
S_OFFL_SIR_NOPN1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T022215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T13337_20210422T113902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T145837_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T171630_20210422T10646_C001 S_OFFL_SIR_NOPN1B_20210422T203321_20210422T203325_C001 S_OFFL_SIR_NOPN1B_20210422T203541_20210422T203611_C001 S_OFFL_SIR_NOPN1B_20210422T021455_20210422T073232_C001 S_OFFL_SIR_NOPN1B_20210422T072747_20210422T073232_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T141218_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T154525_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T220533_C001 S_OFFL_SIR_NOPR1B_20210422T221631_20210422T222053_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
S_OFFL_SIR_NOPN1B_20210422T011446_20210422T013024_C001 S_OFFL_SIR_NOPN1B_20210422T004001_20210422T004137_C001 S_OFFL_SIR_NOPN1B_20210422T021914_20210422T02215_C001 S_OFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 S_OFFL_SIR_NOPN1B_20210422T13337_20210422T13902_C001 S_OFFL_SIR_NOPN1B_20210422T144022_20210422T144157_C001 S_OFFL_SIR_NOPN1B_20210422T145651_20210422T145837_C001 S_OFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T16230210422T162726_C001 S_OFFL_SIR_NOPN1B_20210422T203231_20210422T03325_C001 S_OFFL_SIR_NOPN1B_20210422T203541_20210422T203611_C001 S_OFFL_SIR_NOPN1B_20210422T021455_20210422T02362_C001 S_OFFL_SIR_NOPN1B_20210422T072747_20210422T073232_C001 S_OFFL_SIR_NOPR1B_20210422T154518_20210422T17249_C001 S_OFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001 S_OFFL_SIR_NOPR1B_20210422T20513_20210422T1220533_C001 S_OFFL_SIR_NOPR1B_20210422T20513_20210422T220537_C001 S_OFFL_SIR_NOPR1B_20210422T220513_20210422T22257_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		
GOFFL_SIR_NOPM1B_20210422T011446_20210422T013024_C001 GOFFL_SIR_NOPN1B_20210422T02101422T0210422T02215_C001 GOFFL_SIR_NOPN1B_20210422T031818_20210422T032305_C001 GOFFL_SIR_NOPN1B_20210422T13337_20210422T13902_C001 GOFFL_SIR_NOPN1B_20210422T144022_20210422T144157_C001 GOFFL_SIR_NOPN1B_20210422T145651_20210422T145837_C001 GOFFL_SIR_NOPN1B_20210422T162536_20210422T162726_C001 GOFFL_SIR_NOPN1B_20210422T17630_20210422T162726_C001 GOFFL_SIR_NOPN1B_20210422T203231_20210422T03325_C001 GOFFL_SIR_NOPN1B_20210422T03231_20210422T03325_C001 GOFFL_SIR_NOPN1B_20210422T021455_20210422T03611_C001 GOFFL_SIR_NOPN1B_20210422T021455_20210422T03232_C001 GOFFL_SIR_NOPN1B_20210422T072747_20210422T073232_C001 GOFFL_SIR_NOPR1B_20210422T154518_20210422T154525_C001 GOFFL_SIR_NOPR1B_20210422T171818_20210422T172249_C001 GOFFL_SIR_NOPR1B_20210422T20513_20210422T122257_C001 GOFFL_SIR_NOPR1B_20210422T220513_20210422T22357_C001 GOFFL_SIR_NOPR1B_20210422T221631_20210422T22357_C001 GOFFL_SIR_NOPR1B_20210422T221631_20210422T22357_C001 GOFFL_SIR_NOPR1B_20210422T221631_20210422T22357_C001 GOFFL_SIR_NOPR1B_20210422T221631_20210422T22357_C001 GOFFL_SIR_NOPR1B_20210422T221631_20210422T22357_C001 GOFFL_SIR_NOPR1B_20210422T221631_20210422T22357_C001 GOFFL_SIR_NOPR1B_20210422T221631_20210422T22357_C001 CIT_2 Product Format Check ch product, retrieved and unpacked from the science server, is checked to end	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e		

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:

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).

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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:

Number of products with errors: 49		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210422T011303_20210422T011323_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPM_2_20210422T020317_20210422T021455_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_20210422T000134_20210422T000315_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_20210422T004517_20210422T004613_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_20210422T013034_20210422T013216_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_20210422T013924_20210422T014139_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_20210422T021914_20210422T022215_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_20210422T022314_20210422T022528_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210422T030943_20210422T031132_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_20210422T031818_20210422T032305_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_20210422T035956_20210422T040353_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_20210422T045931_20210422T050122_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_20210422T090936_20210422T091040_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_20210422T094759_20210422T094924_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_20210422T095433_20210422T095740_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210422T112841_20210422T113130_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_20210422T113337_20210422T113902_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_20210422T122432_20210422T122442_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_20210422T130813_20210422T131048_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_20210422T140332_20210422T140443_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_20210422T144022_20210422T144157_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_20210422T144527_20210422T144903_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_20210422T154253_20210422T154518_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_20210422T154526_20210422T154733_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_20210422T162536_20210422T162726_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_20210422T163544_20210422T163804_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_20210422T172249_20210422T172717_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_20210422T190457_20210422T190941_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_20210422T194511_20210422T194848_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_20210422T204620_20210422T204812_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_20210422T212435_20210422T212753_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_20210422T213305_20210422T213430_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_20210422T221524_20210422T221631_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_20210422T231211_20210422T231318_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_20210422T004613_20210422T005155_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_20210422T005210_20210422T005337_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_20210422T022528_20210422T022728_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_20210422T022728_20210422T023216_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_20210422T040353_20210422T040913_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_20210422T071942_20210422T072344_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_20210422T073734_20210422T073838_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_20210422T104856_20210422T105911_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_20210422T151510_20210422T151633_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_20210422T151633_20210422T151717_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_20210422T171818_20210422T172249_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_20210422T185219_20210422T190457_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_20210422T203612_20210422T204400_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_20210422T221631_20210422T222357_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_20210422T235549_20210423T000305_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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210422T163832_20210422T170357_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210421T235841_20210422T000133_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_20210422T000921_20210422T003950_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_20210422T005927_20210422T011301_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_20210422T011446_20210422T013024_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_20210422T013216_20210422T013720_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_20210422T013740_20210422T013751_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_20210422T014649_20210422T015658_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_20210422T020317_20210422T021455_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_20210422T023617_20210422T024912_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_20210422T025026_20210422T025309_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_20210422T025448_20210422T030914_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_20210422T031132_20210422T031632_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_20210422T032305_20210422T034655_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_20210422T034813_20210422T035645_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_20210422T042610_20210422T044850_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_20210422T045216_20210422T045549_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_20210422T045611_20210422T045930_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_20210422T050157_20210422T053045_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_20210422T060150_20210422T062821_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_20210422T062959_20210422T063504_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_20210422T064201_20210422T071607_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_20210422T074224_20210422T074728_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_20210422T080150_20210422T080804_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_20210422T080959_20210422T081537_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_20210422T082119_20210422T085459_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_20210422T092811_20210422T094725_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_20210422T094924_20210422T095433_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_20210422T100029_20210422T103449_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_20210422T103656_20210422T103710_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_20210422T110428_20210422T112202_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_20210422T112458_20210422T112530_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_20210422T113130_20210422T113337_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_20210422T114038_20210422T120958_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_20210422T122939_20210422T124754_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_20210422T124854_20210422T130228_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_20210422T131048_20210422T131247_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_20210422T131404_20210422T131748_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_20210422T131940_20210422T133507_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_20210422T133709_20210422T134633_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_20210422T140443_20210422T140606_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_20210422T141400_20210422T142556_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_20210422T144903_20210422T145651_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_20210422T145859_20210422T151413_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_20210422T155215_20210422T162500_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_20210422T162953_20210422T163544_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_20210422T163832_20210422T170357_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_20210422T172920_20210422T173242_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_20210422T173556_20210422T180324_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_20210422T180937_20210422T181400_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_20210422T181720_20210422T183856_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_20210422T190941_20210422T194236_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_20210422T194849_20210422T195426_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_20210422T195552_20210422T200209_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_20210422T203326_20210422T203450_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_20210422T204812_20210422T212155_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_20210422T212754_20210422T213305_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_20210422T213519_20210422T215450_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_20210422T222641_20210422T230018_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_20210422T230528_20210422T230754_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_20210422T230810_20210422T231211_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_20210422T231440_20210422T234254_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_20210422T235237_20210422T235435_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_20210422T013924_20210422T014139_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_20210422T015658_20210422T015804_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_20210422T022314_20210422T022528_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_20210422T090729_20210422T090743_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_20210422T091539_20210422T091611_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_20210422T025309_20210422T025448_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_20210422T030915_20210422T030942_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_20210422T044850_20210422T044944_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_20210422T050123_20210422T050157_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_20210422T120959_20210422T121440_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_20210422T130228_20210422T130813_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_20210422T151720_20210422T152229_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 (20Hz PLRM)

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210422T004517_20210422T004613_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_20210422T005155_20210422T005209_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_20210422T013924_20210422T014139_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_20210422T015658_20210422T015804_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_20210422T030943_20210422T031132_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_20210422T031818_20210422T032305_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_20210422T034655_20210422T034813_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_20210422T035956_20210422T040353_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_20210422T042031_20210422T042409_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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COUNTLONG COUNTLONG <t< td=""><td>CS_OFFL_SIR_NOPN_2_20210422T062827_20210422T062959_C001</td><td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></t<>	CS_OFFL_SIR_NOPN_2_20210422T062827_20210422T062959_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dig Direct, Self, Control Self Contrel Self Contrel Self Control Self Control Self Control Self Con	CS_OFFL_SIR_NOPN_2_20210422T074858_20210422T075052_C001		
CB_OFFL_BR_NOPL_2_0210127106662_20210127130172_001 Image StatisticsControl Control C	CS_OFFL_SIR_NOPN_2_20210422T081739_20210422T081854_C001		
CS_CFL_SR_NOPK_2_021022T022T020072_0221022T00072_0001 DDDD Attempting Dames Restance Database Databas	CS_OFFL_SIR_NOPN_2_20210422T090652_20210422T090712_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Concern Landy Concern Calabian COCG Biology REAL The CocoG Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627113641_00010427113641_00010 COCG Biology REAL The CocoG Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627113641_00010 COCG Biology REAL The CocoG Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627113643_00010 COCG Biology REAL The Coco Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627114683_00010027114682_CO010 COCG Biology REAL The COCB Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627114683_000100271146817_CO011 COCGB Biology REAL The COCB Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627114682_CO011 COCGB Biology REAL The COCB Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627114682_CO011 COCGB Biology REAL The COCB Range and Baskscatter Quality Flags have been set for one or more records. CB, CFFL_SIR_NOPL_2_00014627114682_CO011 COCGB Biology REAL The COCB Range and Baskscatter Quality Flags have been set for one or more records. CB, OFFL_SIR_NOPL_2_00014627114682_CO011 COCGB	CS_OFFL_SIR_NOPN_2_20210422T090729_20210422T090743_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
 COURT_CSR_URDPL_2_02114221 (UPT 32,02104221 11310)_0201 COURD SEXSSERT Guilty Courd SexSector Guilty Courd SexSector Guilty Courd SexSector Guilty Courd SexSector Guilty FIRM, COURD ACCOUNT 22,02104221 113100_0201 COURD ARITICSR_RUPPL 2_202104221 113000_2001 COURD ARITICSR_RUPPL 2_202104221 113000_2001 COURD ARITICSR_RUPPL 2_202104221 113000_2001 COURD ARITICSR_RUPPL 2_202104221 113000_2001 COURD ARITICSR_RUPPL 2_202104221 113010_2001 COURD ARITICSR_RUPPL 2_202104221 114017_OD01 COURD ARITICSR_RUPPL 2_202104221 114017_DU1221 114017_OD01 COURD ARITICSR_RUPPL 2_202104221 114017_DU1221 114017_OD01 COURD ARITICSR_RUPPL 2_202104221 114017_DU1221 114017_DU121 114	CS_OFFL_SIR_NOPN_2_20210422T090936_20210422T091040_C001		
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CB_OFFL_SIR_NOPN_2_20210427119007_02104271191007_02104271191007_02104271191042_C001 and deadsauter Quality PLM. COO Amount Regins of Backsouter Quality PLM. COO COG Backsouter Quality PLM. COO Ammer Regins	CS_OFFL_SIR_NOPN_2_20210422T112841_20210422T113130_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Colorence OCCOG Backsocater Quality more records. Cis_OFFL_SIR_NOPN_2_20210422T140801_20210422T140801_C001 OCCOG Alimeter Range Quality PLRM. The OCCOG Range and Backscatter Quality Flags have been set for one or more records. Cis_OFFL_SIR_NOPN_2_20210422T140802_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144002_20210422T144003_C001 DCCCOG Alimeter Range Quality PLRM. The OCCOG Range and Backscatter Quality Flags have been set for one or more records. Cis_OFFL_SIR_NOPN_2_20210422T144002_20210422T144003_C001 DCCCOG Alimeter Range Quality PLRM. The OCCOG Range and Backscatter Quality Flags have been set for one or more records. Cis_OFFL_SIR_NOPN_2_20210422T14602_20210422T16501_C001 OCCOG Alimeter Range Quality PLRM. The OCCOG Range and Backscatter Quality Flags have been set for one or more records. Cis_OFFL_SIR_NOPN_2_20210422T165052_20210422T16504_C001 OCCOG Alimeter Range Quality PLRM. The OCCOG Range and Backscatter Quality Flags have been set for one or more records. Cis_OFFL_SIR_NOPN_2_20210422T172240_20210422T172710_C001 OCCOG Alimeter Range, SSHA_SWH and Backscatter Quality Flags have been set for one or more records. The OCCOG Range and Backscatter Quality Flags have been set for one or more records. Cis_OFFL_SIR_NOPN_2_20210422T172240_20210422T172710_C001 OCCOG Alimeter Range, SSHA_SWH and Backscatter Quality Flags have been set for one or more	CS_OFFL_SIR_NOPN_2_20210422T121807_20210422T121900_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
OCOG Backscater Quality The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T155052_0210422T155016_0001 COCOG Altimeter Range SHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatte	CS_OFFL_SIR_NOPN_2_20210422T134633_20210422T134942_C001		
CS_OFFL_SIR_NOPN_2_202104221144002_2021042211440167_C001 OCOG Backscatter Quality FLRM. COOG Altimeter Range Quality FLRM. COOG Altimeter Range SLAL SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_202104221144022_202104221144032_C001 OCOG Altimeter Range Quality FLRM. COOG Altimeter Range SLAL SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422114527_202104221145012_C001 OCOG Altimeter Range Quality FLRM. COOG Altimeter Range SLAL SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_202104221165054_202104221165054_0011 OCOG Altimeter Range Quality FLRM. COOG Altimeter Range and Backscatter Quality FLRM. COCOG Altimeter Range and Backscatter Quality FLRM. The OCOGA Altimeter Range and Backscatter Quality FLRM. The OCOGA Altimeter Range and Backscatter Quality FLRM. CS_OFFL_SIR_NOPN_2_202104221163544_202104221163804_0001 The OCOGA Altimeter Range and Backscatter Quality FLRM. The OCOGA Altimeter Range and Backscatter Quality FLRM. CS_OFFL_SIR_NOPN_2_202104221172758_202104221172770_C001 OCGA Altimeter Range and Backscatter Quality FLRM. COCOG Altimeter Range and Backscatter Quality FLRM. COCOG Altimeter Range and Backscatter Quality FLRM. The OCOGA Altimeter Range and Backscatter Quality FLRM. COCOG Altimeter Range and Backscatter Quality FLRM. COCOG Altimeter Range and Backscatter Quality FLRM. The OCOGA Altimeter Range and Backscatter Quality FLRM. COCOG Altimeter Range and Backscatter Quality FLRM.	CS_OFFL_SIR_NOPN_2_20210422T140606_20210422T140817_C001		
OCCOG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_202104221144527_202104221144593_C001 OCCOG Backscatter Quality The OCCOG Range and Backscatter Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_202104221145052_202104221155215_C001 OCCOG Atimeter Range and Backscatter Quality The OCCOG Range and Backscatter Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_202104221155215_C001 OCCOG Atimeter Range Quality The OCCOG Range and Backscatter Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_202104221172249_202104221175215_C001 OCCOG Atimeter Range SNA.SWH and Backscatter Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_202104221172745_002104221177717_C001 Atimeter Range SNA.SWH and Backscatter Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_202104221172756_02104221172717_C001 OCCCG Atimeter Range SNA.SWH and Backscatter Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_202104221172756_02104221172010_C001 OCCCG Backscatter Quality PLRM. CS_OFFL_SIR_NOPN_2_202104221172756_02104221172010_C001 OCCCG Atimeter Range SNA.SWH and Backscatter Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_202104221180511_002104221180650_C001 OCCCG Atimeter Range ASHASCATTER Quality Flags have been affor one or more records. CS_OFFL_SIR_NOPN_2_20210422118067_202104221198041_C001 OC	CS_OFFL_SIR_NOPN_2_20210422T142556_20210422T143158_C001		
GS_OFFL_SIR_NOPN_2_20210422T148527_20210422T14403_0001 and Backscatter Quality FLMM, OCCO Attimeter Range and Backscatter Quality FLMM, OCCO Attimeter Range and Backscatter Quality FLMM, The OCOS Alimeter Range, SNA, SWH and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLBS and the OCOS Alimeter Range, SNA, SWH and Backscatter Quality FLB	CS_OFFL_SIR_NOPN_2_20210422T144022_20210422T144157_C001		
OCG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_20210422T183544_20210422T18364_2001 OCGG Backscatter Quality PLRN, OCG Attimeter Range and Backscatter Quality FLRN, OCG Attimeter Range and Backscatter Quality PLRN, OCG Attimeter Range and Backscatter Quality FLRN, OCGG Attimeter Range and Backscatter Quality FLRN, OCG Attimeter Range and Ba	CS_OFFL_SIR_NOPN_2_20210422T144527_20210422T144903_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_NOPN_2_20210422T183844_20210422T183804_C001 and Backscatter Quality Flags And Backscatter Quality Flags have been affineter Range and Backsc	CS_OFFL_SIR_NOPN_2_20210422T155052_20210422T155215_C001		
CS_OFFL_SIR_NOPN_2_20210422T172249_20210422T172701 and Backscatter Quality PLRM, COCG Allimeter Range and Backscatter Quality Flags have been CS_OFFL_SIR_NOPN_2_20210422T172756_20210422T172920_C001 OCCG Altimeter Range and Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T172756_20210422T172920_C001 OCCG Altimeter Range and Backscatter Quality The OCCG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T180511_20210422T180650_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The OCCG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T181400_20210422T181649_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCCG Altimeter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_NOPN_2_20210422T190457_20210422T190941_C001 Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T201355_20210422T210351_C001 OCCGA Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T21435_20210422T212753_C001 OCCGA Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T21435_202104	CS_OFFL_SIR_NOPN_2_20210422T163544_20210422T163804_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210422T180511_20210422T180650_C001 OCGG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_20210422T180511_20210422T180650_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Altimeter Range and Backscatter Quality PLRM, The Ocean Altimeter Range, SSHA, SWH and the OCCG Altimeter Range and Backscatter Quality Flags hat the OCCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, The Ocean Altimeter Range, SSHA, SWH and the OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCCG Altimeter Range and Backscatter Quality Flags hat the OCCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, CS_OFFL_SIR_NOPN_2_20210422T190457_20210422T190941_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T190457_20210422T190941_C001 Ocean Altimeter Range Quality PLRM, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T201125_20210422T201351_C001 OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range Quality PLRM, OCCG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T212435_20210422T21253_C001 OCCG Altimeter Range Quality PLRM, OCCG Altimeter Range Quality PLRM, OCCG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T213305_20210422T21530_C001 OCCG Altimeter Range Quality PLRM, <b< td=""><td>CS_OFFL_SIR_NOPN_2_20210422T172249_20210422T172717_C001</td><td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></b<>	CS_OFFL_SIR_NOPN_2_20210422T172249_20210422T172717_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210422T180511_20210422T180650_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T181400_20210422T181649_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T181649_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T190457_20210422T190941_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T201125_20210422T201351_C001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T212435_20210422T212753_C001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T213305_20210422T213430_C001 OCOG Attimeter 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_20210422T215450_20210422T213430_C001 OCOG Attimeter Range Quality PLRM, OCOG Backscatter Qua	CS_OFFL_SIR_NOPN_2_20210422T172758_20210422T172920_C001		
CS_OFFL_SIR_NOPN_2_20210422T181400_20210422T181649_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T190457_20210422T190941_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T201125_20210422T201351_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_20210422T212435_20210422T212753_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T215450_20210422T215402_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, OC	CS_OFFL_SIR_NOPN_2_20210422T180511_20210422T180650_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210422T190457_20210422T190941_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM The OCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCGA Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPN_2_20210422T201125_20210422T201351_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCGA Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPN_2_20210422T212435_20210422T212753_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_20210422T213305_20210422T213430_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_20210422T215450_20210422T215802_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_20210422T181400_20210422T181649_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20210422T212435_20210422T21253_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_20210422T212435_20210422T212753_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_20210422T213305_20210422T213430_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_20210422T215450_20210422T215802_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210422T190457_20210422T190941_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_202104221212435_202104221212735_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_NOPN_2_20210422T213305_20210422T213430_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_20210422T215450_20210422T215802_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPN_2_20210422T201125_20210422T201351_C001		
CS_OFFL_SIR_NOPN_2_202104221213305_202104221213430_C001 OCOG Backscatter Quality more records. OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPN_2_20210422T212435_20210422T212753_C001		
	CS_OFFL_SIR_NOPN_2_20210422T213305_20210422T213430_C001		
	CS_OFFL_SIR_NOPN_2_20210422T215450_20210422T215802_C001		

CS_OFFL_SIR_NOPN_2_20210422T221524_20210422T221631_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_20210422T231211_20210422T231318_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_20210422T000316_20210422T000600_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_20210422T004613_20210422T005155_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_20210422T005630_20210422T005926_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_20210422T013024_20210422T013034_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_20210422T014139_20210422T014649_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_20210422T020105_20210422T020317_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_20210422T021455_20210422T021629_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_20210422T021812_20210422T021913_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_20210422T022528_20210422T022728_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_20210422T022728_20210422T023216_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_20210422T030915_20210422T030942_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_20210422T035645_20210422T035920_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_20210422T040353_20210422T040913_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_20210422T044850_20210422T044944_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_20210422T050123_20210422T050157_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_20210422T064011_20210422T064201_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_20210422T071942_20210422T072344_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_20210422T072747_20210422T073232_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_20210422T080804_20210422T080844_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_20210422T081855_20210422T082118_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_20210422T090712_20210422T090729_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_20210422T091043_20210422T091426_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_20210422T091644_20210422T092009_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_20210422T094725_20210422T094758_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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.
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.
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.
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.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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.
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.
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.
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.
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.
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.
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.
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.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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.
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.
OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
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.
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.
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.
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.
	OCOG Backscatter Quality Ocean Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality OCCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range an

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 187
5.7 L2 Ocean Retracking Quality Check
L2 Retracking Flags (20Hz)
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Ocean Retracking Quality Flag: This flag is currently set for products falling at ocean/ land boundaries, but this is expected.
Number of products with errors: 67
L2 Retracking Flags (20Hz, PLRM)

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

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

5

1737

146

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	156	156	4	152	0
SIR_NOPR1B	104	104	0	104	0
SIR_NOPN1B	104	104	7	97	0
SIR_NOPM_2	156	156	105	51	0
SIR_NOPR_2	104	104	29	73	2
SIR_NOPN_2	104	104	40	64	0

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrences of each error											
Product Type RLOBOPNCDF RL RLOBOPNCDF RL								-			
SIR NOPR 2	2	2	2	2							

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

7.2 QCC Warnings

Number of QCC reports with warnings

inaliser er det repe	to maningo						
			Total n	umber of occurrences	of each warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_NOPM1B	152	0	0	0	0	0	0
SIR_NOPM_2	0	0	37	39	0	37	0
SIR_NOPN1B	97	0	0	0	0	0	0
SIR_NOPN_2	0	0	9	30	4	25	30
SIR_NOPR1B	98	0	0	0	0	0	0
SIR_NOPR_2	0	2	36	52	0	31	23

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	0	31	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	22	0	0	0	25	0	30
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	15	1	0	55	0	59	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	23	0	0	6	29	0	5
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	26	22	44	53	32
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	0	55	0	1	61	30	13

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1B	0	0	0	2	0	0	0
SIR_NOPM_2	33	0	4	2	0	0	0
SIR_NOPN1B	0	0	0	0	0	45	0
SIR_NOPN_2	31	30	15	0	0	0	0
SIR_NOPR1B	0	0	0	0	0	104	3
SIR_NOPR_2	36	52	3	0	5	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	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	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSINN	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
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