

QA4EO Daily Report for NOP data:

<u>10/02/2022</u>

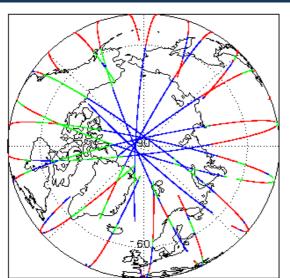
IDEAS-QA4E0

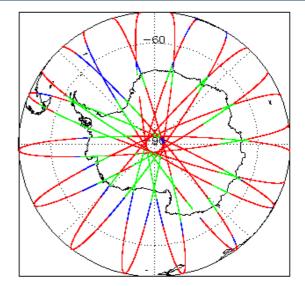
an aut Draduation.	11-Feb-2022	Check	L1 & L2	
Report Production:	11-Feb-2022	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal	
Data Used:	Near Real Time Ocean Products (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	

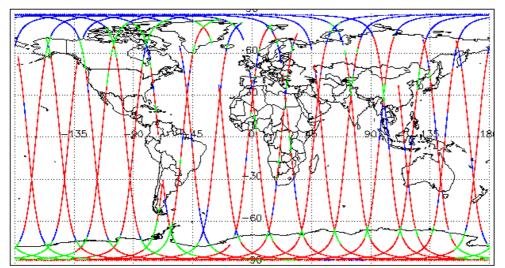
1. Overview

Mission / Ins	Mission / Instrument News		
09-Feb-202	2 None		
10-Feb-202	2 None		
11-Feb-202	Nothing planned		

2. Global Coverage









LRM
SAR
SARIn

3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH and	SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain			
> L1B Processing Quality HR: The l1b_proc_flag_hr flag is currently set all L					
OSARIn chains. A modification is required in the next release.	TO NOP N and NOP N products because the r				
Number of products with errors: 0					
4.3 L1B Auxilary Data File Usage Check					
Each product is checked for missing Data Set Descriptors with respect to a pre	- 9-determined baseline and also to check the v	validity of Auxiliary Data Files is correct.			
> Dynamic Atmospheric Correction: The DAC is missing in all products beca	ause the auxiliary files required are not availa	ble in time for processing. This known and expected behaviour.			
Number of products with errors: 0					
4.4 L1B Auxiliary Correction Error Check					
CryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indicates any prob	lems when set.			
Number of products with errors: 0					
4.5 L1B Measurement Confidence Data Check					
CrvoSat L1B data includes a measurement confidence flag for each measurem	nent record. The bit value of this flag indicates	s any problems when set.			
CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set. Attitude Correction Missing: This flag is currently set in error for NOPR products due to a configuration issue. The attitude correction is not actually missing, This is being investigated and will be updated in the next SW update.					
Number of products with errors: 1					
Product	Test Failed	Description			
CS_OFFL_SIR_NOPM1B_20220210T005426_20220210T005506_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records			
4.6 L1B Waveform Group Data Check		4.6 L1B Waveform Group Data Check			
CryoSat L1B data includes a waveform data flag for each measurement record					
	I. The bit value of this flag indicates any problem	ems when set.			
		ems when set.			
> Loss of Echo Flag: This flag is currently set for occasional products over lat		ems when set.			
 > Loss of Echo Flag: This flag is currently set for occasional products over land Number of products with errors: 	nd, but this is to be expected.				
 > Loss of Echo Flag: This flag is currently set for occasional products over land Number of products with errors: 14 Product 		Description			
 > Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 	nd, but this is to be expected.	Description The tracking echo is missing for one or more records			
 > Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 	nd, but this is to be expected. Test Failed Loss of Echo	Description			
 Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 CS_OFFL_SIR_NOPM1B_20220210T111550_20220210T112521_C001 	Test Failed Loss of Echo Loss of Echo	Description 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			
 Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 CS_OFFL_SIR_NOPM1B_20220210T111550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 	Test Failed Loss of Echo Loss of Echo	Description 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			
 Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 CS_OFFL_SIR_NOPM1B_20220210T11550_20220210T140859_C001 CS_OFFL_SIR_NOPM1B_20220210T11550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T10637_20220210T10902_C001 	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product 14 CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 CS_OFFL_SIR_NOPM1B_20220210T0134036_20220210T140859_C001 CS_OFFL_SIR_NOPM1B_20220210T111550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T101037_20220210T1010902_C001 CS_OFFL_SIR_NOPN1B_20220210T010914_20220210T11101_C001 CS_OFFL_SIR_NOPN1B_20220210T010914_20220210T011101_C001	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
 Loss of Echo Flag: This flag is currently set for occasional products over lar Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 CS_OFFL_SIR_NOPM1B_20220210T111550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T10637_20220210T10902_C001 CS_OFFL_SIR_NOPM1B_20220210T010914_20220210T11101_C001 CS_OFFL_SIR_NOPN1B_20220210T010914_20220210T0191934_C001 	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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			
 Loss of Echo Flag: This flag is currently set for occasional products over lar Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 CS_OFFL_SIR_NOPM1B_20220210T11550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T010637_20220210T10902_C001 CS_OFFL_SIR_NOPM1B_20220210T010914_20220210T011101_C001 CS_OFFL_SIR_NOPM1B_20220210T0199142_0220210T0191934_C001 CS_OFFL_SIR_NOPM1B_20220210T123323_20220210T123734_C001 	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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			
 Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T034036_20220210T040859_C001 CS_OFFL_SIR_NOPM1B_20220210T11550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T010637_20220210T010902_C001 CS_OFFL_SIR_NOPM1B_20220210T010914_20220210T1110_C001 CS_OFFL_SIR_NOPN1B_20220210T0191820_20220210T1110_C001 CS_OFFL_SIR_NOPN1B_20220210T0191820_20220210T191934_C001 CS_OFFL_SIR_NOPN1B_20220210T123323_20220210T12334_C001 CS_OFFL_SIR_NOPN1B_20220210T172844_20220210T173014_C001 	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
 Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T134036_20220210T140859_C001 CS_OFFL_SIR_NOPM1B_20220210T11550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T010637_20220210T010902_C001 CS_OFFL_SIR_NOPM1B_20220210T010914_20220210T011101_C001 CS_OFFL_SIR_NOPM1B_20220210T0191820_20220210T0191934_C001 CS_OFFL_SIR_NOPN1B_20220210T123323_20220210T123734_C001 CS_OFFL_SIR_NOPN1B_20220210T172844_20220210T173014_C001 CS_OFFL_SIR_NOPN1B_20220210T175484_20220210T175255_C001 	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
 Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T134036_20220210T140859_C001 CS_OFFL_SIR_NOPM1B_20220210T11550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T010637_20220210T109092_C001 CS_OFFL_SIR_NOPM1B_20220210T010914_20220210T011101_C001 CS_OFFL_SIR_NOPM1B_20220210T019182_02022010T191934_C001 CS_OFFL_SIR_NOPN1B_20220210T12332_20220210T123734_C001 CS_OFFL_SIR_NOPN1B_20220210T172844_20220210T173014_C001 CS_OFFL_SIR_NOPN1B_20220210T175048_20220210T175255_C001 CS_OFFL_SIR_NOPR1B_20220210T704014_20220210T075021_C001 	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			
 Loss of Echo Flag: This flag is currently set for occasional products over lat Number of products with errors: 14 Product CS_OFFL_SIR_NOPM1B_20220210T000548_20220210T000704_C001 CS_OFFL_SIR_NOPM1B_20220210T134036_20220210T140859_C001 CS_OFFL_SIR_NOPM1B_20220210T11550_20220210T112521_C001 CS_OFFL_SIR_NOPM1B_20220210T161312_20220210T164119_C001 CS_OFFL_SIR_NOPM1B_20220210T010637_20220210T010902_C001 CS_OFFL_SIR_NOPM1B_20220210T010914_20220210T011101_C001 CS_OFFL_SIR_NOPM1B_20220210T0191820_20220210T0191934_C001 CS_OFFL_SIR_NOPN1B_20220210T123323_20220210T123734_C001 CS_OFFL_SIR_NOPN1B_20220210T172844_20220210T173014_C001 CS_OFFL_SIR_NOPN1B_20220210T175484_20220210T175255_C001 	Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records			

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

41

> 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.

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20220210T000910_20220210T001253_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_20220210T010637_20220210T010902_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_20220210T010914_20220210T011101_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_20220210T014922_20220210T015113_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_20220210T015933_20220210T020149_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_20220210T024630_20220210T025100_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_20220210T032859_20220210T033038_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_20220210T050856_20220210T051236_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_20220210T064823_20220210T065141_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_20220210T065653_20220210T065819_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_20220210T073911_20220210T074014_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_20220210T083600_20220210T083707_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_20220210T091820_20220210T091934_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_20220210T115133_20220210T115715_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_20220210T123323_20220210T123734_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_20220210T124429_20220210T124446_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_20220210T132213_20220210T132435_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_20220210T133104_20220210T133418_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_20220210T141208_20220210T141557_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_20220210T151156_20220210T151313_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_20220210T165103_20220210T165219_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_20220210T175048_20220210T175255_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_20220210T182107_20220210T182233_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_20220210T182754_20220210T183103_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_20220210T200654_20220210T201025_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_20220210T214133_20220210T214408_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_20220210T223640_20220210T223801_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_20220210T231702_20220210T232256_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_20220210T004036_20220210T004616_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_20220210T010021_20220210T010637_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_20220210T024204_20220210T024630_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_20220210T041853_20220210T042840_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_20220210T055957_20220210T060745_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

solution 1) for one or more records
h the MSS height (solution 1) and the Mean Dynamic solution 1) for one or more records
h the MSS height (solution 1) and the Mean Dynamic solution 1) for one or more records
h the MSS height (solution 1) and the Mean Dynamic solution 1) for one or more records
h the Mean Dynamic Topography height for one or
h the MSS height (solution 1) and the Mean Dynamic solution 1) for one or more records
h the MSS height (solution 1) and the Mean Dynamic solution 1) for one or more records
h the Mean Dynamic Topography height for one or

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.

Product Test Failed Description CS_OFFL_SIR_NOPM_2_20220210T005426_20220210T005506_C001 Power scaling error There is an error in the scaling of the L2 waveform for one or more record	Number of products with errors: 1		
CS_OFFL_SIR_NOPM_2_20220210T005426_20220210T005506_C001 Power scaling error There is an error in the scaling of the L2 waveform for one or more record	Product	Test Failed	Description
	CS_OFFL_SIR_NOPM_2_20220210T005426_20220210T005506_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 (20 Hz)

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

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

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

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

99

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20220210T000548_20220210T000704_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_20220210T001253_20220210T002039_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_20220210T002229_20220210T003800_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_20220210T005521_20220210T005522_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_20220210T011559_20220210T014848_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_20220210T015113_20220210T015327_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_20220210T015338_20220210T015933_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_20220210T020149_20220210T022751_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_20220210T030001_20220210T032732_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_20220210T033038_20220210T033155_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_20220210T033324_20220210T033745_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_20220210T034036_20220210T040859_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_20220210T040902_20220210T041040_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_20220210T043331_20220210T050639_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_20220210T051236_20220210T051815_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_20220210T051936_20220210T052558_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_20220210T055713_20220210T055830_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_20220210T061154_20220210T064623_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_20220210T065141_20220210T065653_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_20220210T065837_20220210T071834_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_20220210T073630_20220210T073635_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_20220210T075021_20220210T082414_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_20220210T082922_20220210T083142_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_20220210T083148_20220210T083600_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_20220210T083756_20220210T090628_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_20220210T091633_20220210T091820_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_20220210T093219_20220210T094118_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_20220210T094559_20220210T094748_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_20220210T094750_20220210T095758_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_20220210T095945_20220210T100345_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_20220210T100522_20220210T101041_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_20220210T102152_20220210T103416_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_20220210T103623_20220210T104816_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_20220210T105058_20220210T105248_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_20220210T111550_20220210T112521_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_20220210T112723_20220210T114254_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_20220210T114448_20220210T114943_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_20220210T115017_20220210T115133_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_20220210T115745_20220210T115956_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_20220210T122129_20220210T122357_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_20220210T130518_20220210T132209_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_20220210T132435_20220210T132911_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_20220210T132932_20220210T133104_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_20220210T133504_20220210T140039_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_20220210T143514_20220210T150151_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_20220210T150307_20220210T150813_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_20220210T150832_20220210T151156_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_20220210T151414_20220210T154229_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_20220210T154354_20220210T154655_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_20220210T161032_20220210T161309_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_20220210T161312_20220210T164119_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_20220210T164250_20220210T164727_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_20220210T164730_20220210T165103_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_20220210T165334_20220210T172844_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_20220210T174157_20220210T174339_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_20220210T175333_20220210T175453_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_20220210T181740_20220210T182048_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_20220210T182233_20220210T182754_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_20220210T183325_20220210T185602_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_20220210T185847_20220210T190757_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_20220210T192025_20220210T192413_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_20220210T192733_20220210T192757_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_20220210T193128_20220210T193643_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_20220210T194009_20220210T194457_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_20220210T194644_20220210T195959_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_20220210T200257_20220210T200654_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

CI: CPUL DRI NOPY 2 202201722198 202210728411 0201 Costs Afterson Faces, 2894	CS_OFFL_SIR_NOPM_2_20220210T201242_20220210T201900_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records
CH CH <td< td=""><td>CS_OFFL_SIR_NOPM_2_20220210T201909_20220210T202441_C001</td><td>and Backscatter Quality, OCOG</td><td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td></td<>	CS_OFFL_SIR_NOPM_2_20220210T201909_20220210T202441_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CCUT_CONT_NOT_CALLECCULUIDARS_2002011721108_CONT Residuate Cauty are are armiticates COL_CONT_SONT_NOT_CALLECCULUIDARS_2002011721108_CONT The Accus Athenes Program Cauty Figs Instead COL_CONT_SONT_NOT_CALLECCULUIDARS_2002011721082_CONT The Accus Athenes Program Cauty Figs Instead COL_CONT_SONT_NOT_CALLECCULUIDARS_2002011721082_CONT The Accus Athenes Program Cauty Figs Instead COL_CONT_SONT_NOT_CALLECCULUIDARS_2002011722082_CONT The Accus Athenes Program Cauty Figs Instead COL_CONT_SONT_NOT_CALLECCULUIDARS_2002011722082_CONT <td>CS_OFFL_SIR_NOPM_2_20220210T202706_20220210T204506_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_NOPM_2_20220210T202706_20220210T204506_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dis_OPE_JER_JOPU_2_02220107121448_02220107121448_0001 and the Accounts County Flags Network Brags SMA, SMM and Basessmer Acad Manuss Reage SMA, SMM and Bas	CS_OFFL_SIR_NOPM_2_20220210T204853_20220210T204857_C001		
CB: 0FH_SR_NOPM_2_RESERVICE_ITTLESERVICE Answer Resp. 2000 Answer Resp. 20	CS_OFFL_SIR_NOPM_2_20220210T210403_20220210T211006_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Corr L, Sim Holm 2, allocation 1172001, Corr Basessite Cutify Ker are more result CS, OFFL, Sim Holm 2, allocation 11721000, Corr Core Attravier Reng, SSH, SWH Halfwer Reng, SSH, SWH Halfw	CS_OFFL_SIR_NOPM_2_20220210T211111_20220210T213434_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB: OFFL SIR. NOPM 2 30220210721505 20220210722912 0001 And Backastelle Cuality, COGO Minister Finge and Backastelle Cuality, Finge Have been set for one rine records CB: OFFL SIR, NOPM 2 20220210722801 2022010722801 2022010722801 2022010722801 2022010722801 2022010722801 2022010722801 2022010722801 202201072800 2022010	CS_OFFL_SIR_NOPM_2_20220210T214903_20220210T215031_C001		
CB_OFFL_SIR_NOPM_2_02220101721984_2022010722090 control to the control of the con	CS_OFFL_SIR_NOPM_2_20220210T215235_20220210T215929_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C65_OFFL_SIR_NOPM_2_202202107222640_202202107222612_C001 and Badecatter Quality_OC05 and the DOGR Atments Range and Badecatter Quality Flags have been and to or more mootds C65_OFFL_SIR_NOPM_2_202202107222640_20220210722612_C001 COCGR Atmeter Range Quality, C000 The OC06 Atlimeter Range and Badecatter Quality Flags have been and to or more mootds C65_OFFL_SIR_NOPM_2_20220210722640_202202107226432_C001 COCGR Atmeter Range Quality, C000 The OC06 Atlimeter Range and Badecatter Quality Flags have been and to or more mootds C65_OFFL_SIR_NOPM_2_202202107226432_20220107226432_C001 COCGR Atmeter Range, SSHA, SWH and Badecatter Quality, Flags have been and too or more mootds The OC06 Atlimeter Range and Badecatter Quality, Flags have been and too or more mootds C65_OFFL_SIR_NOPM_2_202202107226432_C001 Cocan Atlimeter Range, SSHA, SWH and Badecatter Quality, Flags have been and the OCGR Atlimeter Range and Badecatter Quality, Flags have been and the OCGR Atlimeter Range and Badecatter Quality, Flags have been at the or excells C65_OFFL_SIR_NOPM_2_202202107226422_C001 Cocan Atlimeter Range, SSHA, SWH and Badecatter Quality Flags have been at the or excells C65_OFFL_SIR_NOPM_2_20220210722650_20220210722550_C0022010723551_Q001 Cocan Atlimeter Range and Badecatter Quality Flags have been at the or excells C65_OFFL_SIR_NOPM_2_20220210722650_20220210723551_Q001 Cocan Atlimeter Range and Badecatter Quality Flags have been at the or excells C65_OFFL_SIR_NOPM_2_20220210722650_20220210723550_Q001 Cocan Atlime	CS_OFFL_SIR_NOPM_2_20220210T215949_20220210T220912_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Column Set UPPL SPL DUPPL 200202107224401_02202107224139 Description Biodecister Quality for one or more records OS OFFL_SIR_NOPM_2_202202107224139 COD A Alimeter Range Quality, OCOG The DOCA Alimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records OS_OFFL_SIR_NOPM_2_202202107224102 Code Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OSCA Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records OS_OFFL_SIR_NOPM_2_202202107224102 Code Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records OS_OFFL_SIR_NOPM_2_202202107224102 Code Alimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records OS_OFFL_SIR_NOPM_2_202202107225050_202001 COCOG Alimeter Range SUIA SWH and Backscatter Quality Flags have been set for one or more records OS_OFFL_SIR_NOPM_2_202202107235050_20201 COCOS Alimeter Range SUIA SWH and Backscatter Quality Fla	CS_OFFL_SIR_NOPM_2_20220210T221502_20220210T222205_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Des DPFL_SR_NOPM_2_2022010123436_202202101723464_0001 Backscatter Quality tor one or more records Cosen Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attimeter Range and Backscatter Quality Flags have been at the OCEO Attinter R	CS_OFFL_SIR_NOPM_2_20220210T222640_20220210T222812_C001		
CS_OFFL_SIR_NOPM_2_20220210722438_202202107224392_0001 and Badscatter Quality COCO Allineter Parge and Badscatter Quality Flags have been Allineter Parge Allineter Parge SNA, SWH and Badscatter Quality Flags have been Allineter Parge SNA, SWH and Badscatter Quality Flags have been Allineter Parge SNA, SWH and Badscatter Quality Flags have been Allineter Parge Allineter Parge SNA, SWH and Badscatter Quality Flags have been Allineter Parge SNA, SWH and Badscatter Quality Flags have been Allineter Parge SNA, SWH and Badscatter Quality Flags have been Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter Quality Flags have been at the QCORA Allineter Parge SNA, SWH and Badscatter QUALITY Flags have been at the	CS_OFFL_SIR_NOPM_2_20220210T223801_20220210T224139_C001		
CS_OFFL_SIR_NOPM_2_20220210T22478_20220210T224823_0001 and Backscatter Quality_Flags have been Allmeter Range and Backscatter Quality_Flags have been Allmeter Range and Backscatter Quality_COCO The OCGe Allmeter Range and Backscatter Quality_Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T225050_20220210T225906_C001 Cocean Allmeter Range, SSHA_SWH and Backscatter Quality_Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T225050_20220210T231702_C001 Cocean Allmeter Range, SSHA_SWH and Backscatter Quality_Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T232550_20220210T231702_C001 Cocean Allmeter Range ASHA_SWH and Backscatter Quality Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T232550_20220210T233057_C001 Cocean Allmeter Range, SSHA_SWH and Backscatter Quality Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T234011_20220210T233657_C001 Cocean Allmeter Range, SSHA_SWH and Backscatter Quality Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T234011_20220210T234652_C001 Cocean Allmeter Range, SSHA_SWH and Backscatter Quality Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T234051_20220210T023452_C001 Cocean Allmeter Range, SSHA_SWH and Backscatter Quality Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210T0234531_0220210T023450_C001 Cocean Allmeter Range ASHA_SWH and Backscatter Quality Flags have been all for one or more records CS_OFFL_SIR_NOPM_2_20220210	CS_OFFL_SIR_NOPM_2_20220210T224336_20220210T224645_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_202202107225050_202202107235050_202202107235050_202202107231702_0001 and Backscatter Quality, COCG Allimeter Range and Backscatter Quality, Plags have been and Backscatter Quality, COCG Allimeter Range and Backscatter Quality, Plags have been and Backscatter Quality, COCG Allimeter Range and Backscatter Quality, Plags have been and backscatter Quality, Plags have been and backscatter Quality, COCG Allimeter Range and Backscatter Quality, Plags have been and backscatter Quality, COCG Backscatter Quality, COCG Allimeter Range and Backscatter Quality, Flags have been and backscatter Quality, COCG Backscatter Quality, COCG Backscatter Quality, COCG Allimeter Range, SSHA, SWH and Backscatter Quality, COCG Backscatter Quality, COCG Allimeter Range, SSHA, SWH and Backscatter Quality, Plags have been and backscatter Quality, Plags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T02356_20220210T02356_20220210T02356_20220210T02356_20220210T02356_	CS_OFFL_SIR_NOPM_2_20220210T224718_20220210T224923_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_80220210T230586_20220210T231702_C001 and Backscatter Quality, OCCG and the OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPM_2_80220210T233051_20220210T233057_C001 Coccan Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Cocc Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the Cocc Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the Cocc Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have been at the Cocc Altimeter Range and Backscatter Quality, Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have been at the Cocc Altimeter Range and Backscatter Quality Flags have	CS_OFFL_SIR_NOPM_2_20220210T225050_20220210T225906_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20220210T23350_20220210T23365_001 Decan Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20220210T234011_20220210T234652_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and the OCCG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and the OCCG Altimeter Range and Backscatter Quality Flags have been at for one or more records CS_OFFL_SIR_NOPN_2_20220210T022751_20220210T023120_C001 DCOG Altimeter Range Quality.OCCG Backscatter Quality The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T023566_20220210T023688_C001 OCCG Altimeter Range Quality.OCCG Backscatter Quality The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T0723566_20220210T074014_C001 Ocean Altimet	CS_OFFL_SIR_NOPM_2_20220210T230526_20220210T231702_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20220210T233150_20220210T233857_C001 and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality Figs on eor more records CS_OFFL_SIR_NOPM_2_20220210T234011_20220210T234652_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20220210T234031_20220210T034652_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20220210T234831_20220211T000323_C001 Coean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20220210T034631_20220210T005040_C001 COCG Altimeter Range Quality, OCCG CS_OFFL_SIR_NOPN_2_20220210T004716_20220210T005040_C001 COCG Altimeter Range Quality, OCCG CS_OFFL_SIR_NOPN_2_20220210T022751_20220210T0023120_C001 COCG Altimeter Range Quality, OCCG CS_OFFL_SIR_NOPN_2_20220210T023556_20220210T023583_C001 COCG Altimeter Range Quality, OCCG CS_OFFL_SIR_NOPN_2_20220210T023556_20220210T023638_C001 COCG Altimeter Range Quality, OCCG CS_OFFL_SIR_NOPN_2_20220210T073911_20220210T074014_C001 Cocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T073911_20220210T074014_C001 Cocean Altimeter Range Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_O	CS_OFFL_SIR_NOPM_2_20220210T232550_20220210T233011_C001		
CS_OFFL_SIR_NOPM_2_20220210T234011_20220210T234652_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been act for one or more records CS_OFFL_SIR_NOPM_2_20220210T234831_20220211T000323_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 have been act for one or more records CS_OFFL_SIR_NOPN_2_20220210T004716_20220210T005040_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_20220210T022751_20220210T0023120_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_20220210T023556_20220210T023638_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_20220210T073911_20220210T074014_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T082538_20220210T200112_C001	CS_OFFL_SIR_NOPM_2_20220210T233150_20220210T233857_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20220210T234831_20220211T000323_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPN_2_20220210T004716_20220210T005040_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_20220210T022751_20220210T023120_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_20220210T022751_20220210T023120_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_20220210T023556_20220210T023638_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_20220210T073911_20220210T074014_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T082538_20220210T082522_C001 OCOG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records <td>CS_OFFL_SIR_NOPM_2_20220210T234011_20220210T234652_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_NOPM_2_20220210T234011_20220210T234652_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_202202101004716_202202101003040_C001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPN_2_202202101022751_202202101023120_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101023556_202202101023638_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101023556_202202101023638_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101073911_202202101074014_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101082538_202202101082922_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101082538_202202101082922_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101020050_202202101200112_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPM_2_20220210T234831_20220211T000323_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_202202101022751_202202101023120_C001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPN_2_202202101022751_202202101023556_20220210T023638_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T073911_20220210T074014_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T073911_20220210T074014_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T082538_20220210T082922_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T082538_20220210T082922_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T020050_20220210T200112_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20220210T004716_20220210T005040_C001		
CS_OFFL_SIR_NOPN_2_202202101023556_202202101023658_C001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPN_2_202202101023556_202202101023658_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101073911_202202101074014_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_202202101082538_202202101082922_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_202202101082050_202202101200112_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPN_2_20220210T022751_20220210T023120_C001		
CS_OFFL_SIR_NOPN_2_20220210T073911_20220210T074014_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T082538_20220210T082922_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T082538_20220210T082922_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records CS_OFFL_SIR_NOPN_2_20220210T08050_20220210T200112_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records	CS_OFFL_SIR_NOPN_2_20220210T023556_20220210T023638_C001		
CS_OFFL_SIR_NOPN_2_202202101082938_202202101082922_C001 Backscatter Quality for one or more records CS_OFFL_SIR_NOPN_2_20220210T200050_20220210T200112_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPN_2_20220210T073911_20220210T074014_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPN_2_20220210T200050_20220210T200112_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPN_2_20220210T082538_20220210T082922_C001		
	CS_OFFL_SIR_NOPN_2_20220210T200050_20220210T200112_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPR_2_20220210T002225_20220210T002229_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_20220210T041853_20220210T042840_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_20220210T064623_20220210T064823_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20220210T143037_20220210T143126_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_20220210T221022_20220210T221502_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records
CS_OFFL_SIR_NOPR_2_20220210T222502_20220210T222515_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_20220210T225906_20220210T230120_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (20 Hz PLRM)

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

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

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

75

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20220210T004716_20220210T005040_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_20220210T010914_20220210T011101_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_20220210T011200_20220210T011219_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_20220210T011435_20220210T011559_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_20220210T015933_20220210T020149_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_20220210T024133_20220210T024204_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_20220210T024630_20220210T025100_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_20220210T025637_20220210T025903_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_20220210T032859_20220210T033038_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_20220210T033745_20220210T034036_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_20220210T050856_20220210T051236_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_20220210T051815_20220210T051930_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_20220210T053511_20220210T053845_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_20220210T060745_20220210T060917_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_20220210T065653_20220210T065819_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_20220210T082538_20220210T082922_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_20220210T101305_20220210T101451_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_20220210T111153_20220210T111550_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_20220210T115133_20220210T115715_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_20220210T123323_20220210T123734_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_20220210T125410_20220210T125434_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_20220210T125448_20220210T125720_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_20220210T133104_20220210T133418_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_20220210T143142_20220210T143318_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_20220210T151156_20220210T151313_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_20220210T154655_20220210T155251_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_20220210T160154_20220210T160233_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_20220210T192413_20220210T192456_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_20220210T214133_20220210T214408_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_20220210T214601_20220210T214903_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_20220210T215031_20220210T215119_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_20220210T223640_20220210T223801_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_20220210T230420_20220210T230526_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_20220210T231702_20220210T232256_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_20220210T002225_20220210T002229_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_20220210T004036_20220210T004616_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_20220210T010021_20220210T010637_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_20220210T023756_20220210T024016_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_20220210T024204_20220210T024630_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_20220210T041040_20220210T041121_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_20220210T041607_20220210T041850_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_20220210T041853_20220210T042840_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_20220210T050639_20220210T050856_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_20220210T054635_20220210T054713_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_20220210T055957_20220210T060745_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_20220210T060917_20220210T060955_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_20220210T072658_20220210T072742_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_20220210T074014_20220210T075021_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_20220210T091934_20220210T092650_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_20220210T092926_20220210T093219_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_20220210T101520_20220210T101812_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_20220210T103416_20220210T103623_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_20220210T105849_20220210T110608_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_20220210T112521_20220210T112723_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_20220210T123005_20220210T123323_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_20220210T123735_20220210T124255_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_20220210T124255_20220210T124429_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_20220210T125824_20220210T125836_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_20220210T141557_20220210T142429_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_20220210T151313_20220210T151414_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_20220210T155251_20220210T160033_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_20220210T160043_20220210T160154_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_20220210T160234_20220210T160324_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_20220210T160335_20220210T160451_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_20220210T173014_20220210T173050_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_20220210T174339_20220210T174418_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_20220210T175016_20220210T175035_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_20220210T192757_20220210T192812_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_20220210T193004_20220210T193128_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_20220210T195959_20220210T200050_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_20220210T202441_20220210T202706_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_20220210T204506_20220210T204819_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_20220210T205825_20220210T210226_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_20220210T222422_20220210T222424_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_20220210T225906_20220210T230120_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records

L2 Quality Flags (1 Hz & 1 Hz PLRM)

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

176

66

119

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

Number of products with errors:

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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

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

13

1593

Number of products with errors:

L2 Retracking Flags (20 Hz PLRM)

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

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

Number of products with errors:

7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	191	191	5	186	0
SIR_NOPR1B	118	118	0	118	0
SIR_NOPN1B	108	108	2	103	3
SIR_NOPM_2	191	191	134	57	0
SIR_NOPR_2	118	118	54	59	5
SIR_NOPN_2	105	105	46	59	0

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrences of each error										
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	RRTAISSOPOBHRNCDF	-	-	-	-	-
SIR_NOPN1B	0	0	0	0	3					
SIR_NOPR_2	5	5	5	5	0					
•			•					•	•	

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					
RRTAISSOPOBHRNC DF	RangeRecordTAIStartStopOPOrBlankHRNetC DF	The time value should be between the record TAI start/stop times of the SPH					

7.2 QCC Warnings

Number of QCC reports with warnings

	Total number of occurrences of each warning							
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI	
SIR_NOPM1B	186	0	0	0	0	0	0	
SIR_NOPM_2	0	0	46	44	0	43	0	
SIR_NOPN1B	106	0	0	0	0	0	0	
SIR_NOPN_2	0	0	8	30	1	21	25	
SIR_NOPR1B	113	0	0	0	0	0	0	
SIR_NOPR_2	0	5	18	28	0	14	11	

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	33	38	0	0	0	0	33
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	16	0	0	19	0	27	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	8	0	26	0	33	0	0

Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	9	33	0	5	41
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	25	12	40	52	26	26
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	28	0	5	45	26	11	17
<u> </u>	÷						

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-
SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	0	1	0	0	0	0	
SIR_NOPN1B	0	0	0	0	49	0	
SIR_NOPN_2	28	13	0	1	0	0	
SIR_NOPR1B	0	0	0	0	118	6	
SIR_NOPR_2	30	4	1	9	0	0	

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

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0