

QA4EO Daily Report for IOP data:

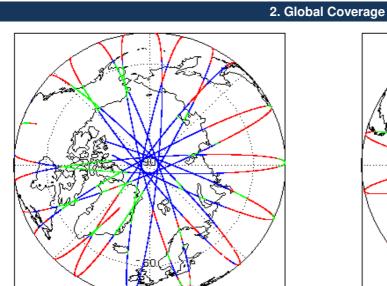
<u>09/01/2022</u>

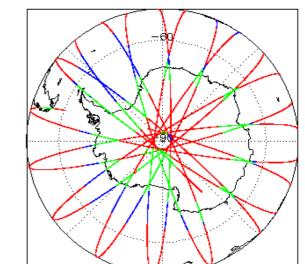
IDEAS-QA4E0

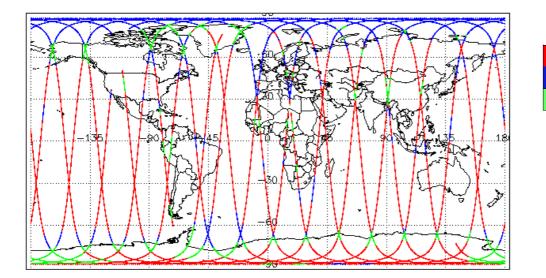
en est Dreduction.	13-Jan-2022	Check	L1 & L2	P2P
Report Production:	13-Jan-2022	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	I: CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor useu:		Product Software Check	Nominal	Nominal
Data Used:	Used: Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Useu:		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6	Nominal
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1 and 7.2

1. Overview

Mission / Instrument News		
08-Jan-2022	None	
09-Jan-2022	None	
10-Jan-2022	Nothing planned	











3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

	nd SPH in order to identify any inco	nsistencies and/or errors raised by the ground-segment processing chain.		
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all OSARIn chains. A modification is required in the next release.	L1B IOPR and IOPN products beca	ause the I1b_processing_quality_hr field is not correctly configured in the OSAR and		
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 p	re-determined baseline and also to	check the validity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement reco	rd. The bit value of this flag indicate	es any problems when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measure	ment record. The bit value of this fl	ag indicates any problems when set.		
> Attitude Correction Missing: This flag is currently set in error for IOPR pre- training of the set of the	oducts due to a configuration issue	. The attitude correction is actually not missing. This will be resolved in the next SW		
Number of products with errors: 0				
I.6 L1B Waveform Group Data Check				
CryoSat L1B data includes a waveform data flag for each measurement reco	rd. The bit value of this flag indicate	s any problems when set.		
.oss of Echo Flag: This flag is currently set for products over land, but this i	-			
Number of products with errors: 19				
Product	Test Failed	Description		
CS_OFFL_SIR_IOPM1B_20220109T032120_20220109T032140_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPM1B_20220109T233144_20220109T234437_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20220109T014126_20220109T014332_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20220109T031619_20220109T032120_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20220109T054905_20220109T055035_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPN1B_20220109T140936_20220109T141154_C001	Loss of Echo	The tracking echo is missing for one or more records		
	Loss of Echo	The tracking echo is missing for one or more records		
S OFFL SIR IOPNIB 202201091230731 202201091231137 C001				
	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001		The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 CS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001	Loss of Echo	The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 CS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 CS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 CS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 CS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 CS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 CS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 CS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 CS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 CS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
SS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 SS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 SS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 SS_OFFL_SIR_IOPR1B_20220109T01559_20220109T01853_C001 SS_OFFL_SIR_IOPR1B_20220109T01559_20220109T01853_C001 SS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001 SS_OFFL_SIR_IOPR1B_20220109T1122431_20220109T123012_C001	Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
SS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 SS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 SS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 SS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 SS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001 SS_OFFL_SIR_IOPR1B_20220109T122431_20220109T123012_C001 SS_OFFL_SIR_IOPR1B_20220109T130825_20220109T131508_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
SS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 SS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 SS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 SS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 SS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 SS_OFFL_SIR_IOPR1B_20220109T113926_20220109T071853_C001 SS_OFFL_SIR_IOPR1B_20220109T12132431_20220109T123012_C001 SS_OFFL_SIR_IOPR1B_20220109T130825_20220109T131508_C001 SS_OFFL_SIR_IOPR1B_20220109T194134_20220109T194823_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
SS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 SS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 SS_OFFL_SIR_IOPR1B_20220109T062108_20220109T045640_C001 SS_OFFL_SIR_IOPR1B_20220109T07659_20220109T076853_C001 SS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 SS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001 SS_OFFL_SIR_IOPR1B_20220109T12431_20220109T123012_C001 SS_OFFL_SIR_IOPR1B_20220109T130825_20220109T131508_C001 SS_OFFL_SIR_IOPR1B_20220109T194134_20220109T194823_C001 SS_OFFL_SIR_IOPR1B_20220109T211747_20220109T211855_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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		
SS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 SS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 SS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 SS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 SS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 SS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001 SS_OFFL_SIR_IOPR1B_20220109T122431_20220109T123012_C001 SS_OFFL_SIR_IOPR1B_20220109T130825_20220109T131508_C001 SS_OFFL_SIR_IOPR1B_20220109T1914134_20220109T14823_C001 SS_OFFL_SIR_IOPR1B_20220109T211747_20220109T211855_C001 SS_OFFL_SIR_IOPR1B_20220109T212008_20220109T212723_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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		
CS_OFFL_SIR_IOPN1B_20220109T230731_20220109T231137_C001 CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 CS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 CS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 CS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 CS_OFFL_SIR_IOPR1B_20220109T071559_20220109T071853_C001 CS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001 CS_OFFL_SIR_IOPR1B_20220109T12431_20220109T123012_C001 CS_OFFL_SIR_IOPR1B_20220109T130825_20220109T131508_C001 CS_OFFL_SIR_IOPR1B_20220109T194134_20220109T194823_C001 CS_OFFL_SIR_IOPR1B_20220109T211747_20220109T211855_C001 CS_OFFL_SIR_IOPR1B_20220109T212008_20220109T212723_C001 CS_OFFL_SIR_IOPR1B_20220109T213137_20220109T231221_C001 CS_OFFL_SIR_IOPR1B_20220109T231137_20220109T231221_C001 CS_OFFL_SIR_IOPR1B_20220109T23137_20220109T23109_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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		
CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 CS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 CS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 CS_OFFL_SIR_IOPR1B_20220109T070559_20220109T070533_C001 CS_OFFL_SIR_IOPR1B_20220109T01559_20220109T01853_C001 CS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001 CS_OFFL_SIR_IOPR1B_20220109T122431_20220109T123012_C001 CS_OFFL_SIR_IOPR1B_20220109T130825_20220109T131508_C001 CS_OFFL_SIR_IOPR1B_20220109T1914344_20220109T194823_C001 CS_OFFL_SIR_IOPR1B_20220109T211747_20220109T211855_C001 CS_OFFL_SIR_IOPR1B_20220109T2112008_20220109T212723_C001 CS_OFFL_SIR_IOPR1B_20220109T231137_20220109T231221_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records 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		
CS_OFFL_SIR_IOPR1B_20220109T014613_20220109T014719_C001 CS_OFFL_SIR_IOPR1B_20220109T045133_20220109T045640_C001 CS_OFFL_SIR_IOPR1B_20220109T062108_20220109T062128_C001 CS_OFFL_SIR_IOPR1B_20220109T070559_20220109T01853_C001 CS_OFFL_SIR_IOPR1B_20220109T01559_20220109T01853_C001 CS_OFFL_SIR_IOPR1B_20220109T113926_20220109T114159_C001 CS_OFFL_SIR_IOPR1B_20220109T122431_20220109T123012_C001 CS_OFFL_SIR_IOPR1B_20220109T130825_20220109T131508_C001 CS_OFFL_SIR_IOPR1B_20220109T194134_20220109T194823_C001 CS_OFFL_SIR_IOPR1B_20220109T211747_20220109T211855_C001 CS_OFFL_SIR_IOPR1B_20220109T211747_20220109T2112723_C001 CS_OFFL_SIR_IOPR1B_20220109T231137_20220109T231221_C001 CS_OFFL_SIR_IOPR1B_20220109T234437_20220109T235109_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for		

Number of products with errors:

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. 0

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

0

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

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

> Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.

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

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

> Altimetric Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220109T032120_20220109T032140_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)
CS_OFFL_SIR_IOPM_2_20220109T062128_20220109T062243_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20220109T075955_20220109T080024_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPM_2_20220109T163450_20220109T163530_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T003944_20220109T004404_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)
CS_OFFL_SIR_IOPN_2_20220109T013705_20220109T013809_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)
CS_OFFL_SIR_IOPN_2_20220109T022004_20220109T022158_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T023020_20220109T023208_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T031619_20220109T032120_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220109T054101_20220109T054305_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20220109T071854_20220109T072214_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)
CS_OFFL_SIR_IOPN_2_20220109T072737_20220109T072856_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T085749_20220109T090109_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)
CS_OFFL_SIR_IOPN_2_20220109T094718_20220109T095008_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20220109T103420_20220109T103618_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T104456_20220109T104629_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)
CS_OFFL_SIR_IOPN_2_20220109T112808_20220109T112909_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)
CS_OFFL_SIR_IOPN_2_20220109T122225_20220109T122431_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)
CS_OFFL_SIR_IOPN_2_20220109T130609_20220109T130706_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T130706_20220109T130825_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T140936_20220109T141154_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)
CS_OFFL_SIR_IOPN_2_20220109T144241_20220109T144654_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T175825_20220109T180226_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T185122_20220109T185247_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T190037_20220109T190151_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20220109T203050_20220109T203216_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T203729_20220109T204031_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)
CS_OFFL_SIR_IOPN_2_20220109T221108_20220109T221409_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T221632_20220109T222148_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)

CS_OFFL_SIR_IOPN_2_20220109T230102_20220109T230150_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20220109T230731_20220109T231137_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20220109T235109_20220109T235344_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)
CS_OFFL_SIR_IOPR_2_20220109T002006_20220109T002220_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPR_2_20220109T013037_20220109T013121_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220109T013129_20220109T013210_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220109T013238_20220109T013436_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)
CS_OFFL_SIR_IOPR_2_20220109T013436_20220109T013705_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)
CS_OFFL_SIR_IOPR_2_20220109T031022_20220109T031618_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)
CS_OFFL_SIR_IOPR_2_20220109T045133_20220109T045640_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)
CS_OFFL_SIR_IOPR_2_20220109T061943_20220109T062035_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220109T062108_20220109T062128_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220109T062511_20220109T062657_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20220109T063032_20220109T063842_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)
CS_OFFL_SIR_IOPR_2_20220109T080918_20220109T081745_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)
CS_OFFL_SIR_IOPR_2_20220109T095008_20220109T095752_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)
CS_OFFL_SIR_IOPR_2_20220109T112910_20220109T113453_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)
CS_OFFL_SIR_IOPR_2_20220109T130825_20220109T131508_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)
CS_OFFL_SIR_IOPR_2_20220109T144654_20220109T145215_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)
CS_OFFL_SIR_IOPR_2_20220109T162517_20220109T163416_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)
CS_OFFL_SIR_IOPR_2_20220109T180226_20220109T181000_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)
CS_OFFL_SIR_IOPR_2_20220109T194134_20220109T194823_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)
CS_OFFL_SIR_IOPR_2_20220109T194823_20220109T195127_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)
CS_OFFL_SIR_IOPR_2_20220109T212008_20220109T212723_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)
CS_OFFL_SIR_IOPR_2_20220109T212723_20220109T212927_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)
CS_OFFL_SIR_IOPR_2_20220109T230005_20220109T230102_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPR_2_20220109T230150_20220109T230619_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)
CS_OFFL_SIR_IOPR_2_20220109T230619_20220109T230731_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)

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5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20220108T235908_20220109T000159_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_IOPM_2_20220109T000354_20220109T002006_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_IOPM_2_20220109T002220_20220109T003703_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_IOPM_2_20220109T004404_20220109T004615_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_IOPM_2_20220109T004701_20220109T005118_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_IOPM_2_20220109T005300_20220109T010830_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_IOPM_2_20220109T011030_20220109T011951_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_IOPM_2_20220109T014801_20220109T015815_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_IOPM_2_20220109T020422_20220109T021900_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_IOPM_2_20220109T022158_20220109T023020_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_IOPM_2_20220109T023236_20220109T024946_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_IOPM_2_20220109T025051_20220109T025441_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_IOPM_2_20220109T033124_20220109T033508_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_IOPM_2_20220109T033511_20220109T035829_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_IOPM_2_20220109T040057_20220109T040256_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_IOPM_2_20220109T040342_20220109T040841_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_IOPM_2_20220109T041130_20220109T043715_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_IOPM_2_20220109T051010_20220109T053616_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_IOPM_2_20220109T054305_20220109T054905_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_IOPM_2_20220109T055035_20220109T061931_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_IOPM_2_20220109T062658_20220109T062855_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_IOPM_2_20220109T064200_20220109T071559_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_IOPM_2_20220109T072214_20220109T072737_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_IOPM_2_20220109T072937_20220109T073532_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_IOPM_2_20220109T073821_20220109T074153_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_IOPM_2_20220109T080539_20220109T080742_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_IOPM_2_20220109T080825_20220109T080918_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_IOPM_2_20220109T082149_20220109T083016_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_IOPM_2_20220109T083301_20220109T085519_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_IOPM_2_20220109T090109_20220109T090218_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_IOPM_2_20220109T090223_20220109T090631_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_IOPM_2_20220109T090844_20220109T092137_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_IOPM_2_20220109T092324_20220109T092911_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_IOPM_2_20220109T100028_20220109T103402_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_IOPM_2_20220109T103618_20220109T104117_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_IOPM_2_20220109T104123_20220109T104130_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_IOPM_2_20220109T104137_20220109T104456_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_IOPM_2_20220109T105218_20220109T112335_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_IOPM_2_20220109T112457_20220109T112608_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_IOPM_2_20220109T114306_20220109T115058_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_IOPM_2_20220109T115539_20220109T115649_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_IOPM_2_20220109T115651_20220109T121315_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_IOPM_2_20220109T121504_20220109T122016_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_IOPM_2_20220109T123012_20220109T124359_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_IOPM_2_20220109T124637_20220109T125751_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_IOPM_2_20220109T131950_20220109T132002_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_IOPM_2_20220109T132541_20220109T133512_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_IOPM_2_20220109T133739_20220109T135210_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_IOPM_2_20220109T135427_20220109T135928_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_IOPM_2_20220109T140804_20220109T140936_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_IOPM_2_20220109T141155_20220109T142156_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_IOPM_2_20220109T142438_20220109T142952_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_IOPM_2_20220109T145724_20220109T145743_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_IOPM_2_20220109T145811_20220109T145819_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_IOPM_2_20220109T150839_20220109T153140_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_IOPM_2_20220109T153503_20220109T153845_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_IOPM_2_20220109T154500_20220109T161348_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_IOPM_2_20220109T164516_20220109T171108_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_IOPM_2_20220109T171246_20220109T171800_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_IOPM_2_20220109T172511_20220109T175824_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_IOPM_2_20220109T181848_20220109T182052_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_IOPM_2_20220109T182138_20220109T182148_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_IOPM_2_20220109T182150_20220109T182841_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_IOPM_2_20220109T183452_20220109T183937_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_IOPM_2_20220109T184437_20220109T185038_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_IOPM_2_20220109T185247_20220109T185835_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_IOPM_2_20220109T190427_20220109T193727_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_IOPM_2_20220109T195128_20220109T195217_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_IOPM_2_20220109T201337_20220109T201525_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_IOPM_2_20220109T201628_20220109T203003_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_IOPM_2_20220109T203217_20220109T203729_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_IOPM_2_20220109T204311_20220109T210544_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_IOPM_2_20220109T210828_20220109T211746_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_IOPM_2_20220109T212927_20220109T213001_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_IOPM_2_20220109T213139_20220109T213150_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_IOPM_2_20220109T214820_20220109T220752_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_IOPM_2_20220109T221410_20220109T221631_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_IOPM_2_20220109T222324_20220109T225522_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_IOPM_2_20220109T231221_20220109T233124_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_IOPM_2_20220109T233144_20220109T234437_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_IOPM_2_20220109T235722_20220110T000044_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_IOPN_2_20220109T011951_20220109T012026_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_IOPN_2_20220109T130706_20220109T130825_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_IOPN_2_20220109T153146_20220109T153503_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_IOPN_2_20220109T153901_20220109T153907_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_IOPN_2_20220109T175825_20220109T180226_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_IOPN_2_20220109T193809_20220109T193909_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_IOPN_2_20220109T221108_20220109T221409_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_IOPR_2_20220109T045133_20220109T045640_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_IOPR_2_20220109T093557_20220109T094229_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_IOPR_2_20220109T104918_20220109T104921_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_IOPR_2_20220109T233124_20220109T233144_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20220109T003944_20220109T004404_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_IOPN_2_20220109T005118_20220109T005253_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_IOPN_2_20220109T011951_20220109T012026_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_IOPN_2_20220109T013705_20220109T013809_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_IOPN_2_20220109T014126_20220109T014332_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_IOPN_2_20220109T015921_20220109T020421_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_IOPN_2_20220109T022004_20220109T022158_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_IOPN_2_20220109T025701_20220109T030048_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_IOPN_2_20220109T031619_20220109T032120_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_IOPN_2_20220109T035938_20220109T040057_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_IOPN_2_20220109T043715_20220109T043904_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_IOPN_2_20220109T045112_20220109T045133_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_IOPN_2_20220109T053903_20220109T054024_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_IOPN_2_20220109T054101_20220109T054305_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_IOPN_2_20220109T054905_20220109T055035_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_IOPN_2_20220109T081745_20220109T082102_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_IOPN_2_20220109T090631_20220109T090755_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_IOPN_2_20220109T112356_20220109T112457_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_IOPN_2_20220109T113453_20220109T113506_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_IOPN_2_20220109T122225_20220109T122431_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_IOPN_2_20220109T132317_20220109T132541_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_IOPN_2_20220109T140936_20220109T141154_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_IOPN_2_20220109T144241_20220109T144654_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_IOPN_2_20220109T150305_20220109T150705_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_IOPN_2_20220109T154205_20220109T154409_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_IOPN_2_20220109T161348_20220109T161629_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_IOPN_2_20220109T164223_20220109T164255_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_IOPN_2_20220109T171109_20220109T171246_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_IOPN_2_20220109T181000_20220109T181035_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_IOPN_2_20220109T190037_20220109T190151_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_IOPN_2_20220109T193923_20220109T194134_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_IOPN_2_20220109T200756_20220109T200940_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_IOPN_2_20220109T203729_20220109T204031_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_IOPN_2_20220109T214643_20220109T214731_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_IOPN_2_20220109T221108_20220109T221409_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_IOPN_2_20220109T221632_20220109T222148_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_IOPN_2_20220109T230731_20220109T231137_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_IOPN_2_20220109T235109_20220109T235344_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_IOPN_2_20220109T235540_20220109T235722_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_IOPR_2_20220109T002006_20220109T002220_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_IOPR_2_20220109T013037_20220109T013121_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_IOPR_2_20220109T013238_20220109T013436_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T013436_20220109T013705_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_IOPR_2_20220109T013935_20220109T014125_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_IOPR_2_20220109T014613_20220109T014719_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_IOPR_2_20220109T030913_20220109T031022_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_IOPR_2_20220109T031022_20220109T031618_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_IOPR_2_20220109T032140_20220109T032418_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_IOPR_2_20220109T032948_20220109T033124_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_IOPR_2_20220109T044725_20220109T044921_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_IOPR_2_20220109T044956_20220109T045112_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_IOPR_2_20220109T050851_20220109T051009_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_IOPR_2_20220109T061943_20220109T062035_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_IOPR_2_20220109T062108_20220109T062128_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_IOPR_2_20220109T062856_20220109T063026_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_IOPR_2_20220109T063032_20220109T063842_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_IOPR_2_20220109T071559_20220109T071853_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_IOPR_2_20220109T072856_20220109T072936_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_IOPR_2_20220109T075606_20220109T075955_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_IOPR_2_20220109T080222_20220109T080428_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_IOPR_2_20220109T080918_20220109T081745_C001 ar AI PI CS_OFFL_SIR_IOPR_2_20220109T093557_20220109T094229_C001 Or	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM COG Altimeter Range 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.
O	COG Altimeter Bange Quality PLBM.	
0	COG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T095008_20220109T095752_C001	Icean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	COG Altimeter Range Quality PLRM, COG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T104630_20220109T104918_C001 AI AI PI	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T112335_20220109T112356_C001	Icean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T112910_20220109T113453_C001 ar	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T113926_20220109T114159_C001	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	COG Altimeter Range Quality PLRM, COG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T122431_20220109T123012_C001 ar	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	COG Altimeter Range Quality PLRM, COG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	COG Altimeter Range Quality PLRM, COG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T130420_20220109T130609_C001 AI AI PI	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T130825_20220109T131508_C001 AI AI PI	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T143930_20220109T144222_C001 AI PI	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T144654_20220109T145215_C001 ar	Icean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T145239_20220109T145331_C001	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
	COG Altimeter Range Quality PLRM, COG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T162517_20220109T163416_C001 ar	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T172300_20220109T172511_C001 ar	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T180226_20220109T181000_C001	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T181035_20220109T181504_C001 ar	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T194134_20220109T194823_C001 AI AI PI	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T194823_20220109T195127_C001 AI PI	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T195408_20220109T195708_C001	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20220109T200006_20220109T200326_C001 ar	cean Altimeter Range, SSHA, SWH nd Backscatter Quality PLRM, OCOG Itimeter Range and Backscatter Quality LRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20220109T212008_2022	20109T212723_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_IOPR_2_20220109T213150_2022	20109T213915_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_IOPR_2_20220109T220752_2022	20109T221108_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_IOPR_2_20220109T225522_2022	20109T225742_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_IOPR_2_20220109T231137_2022	20109T231221_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)			
Currently, there are several common flags raise	ed in the Level 2 products, wh	ich are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: The	se flags are currently set for proc	ducts over sea ice, which is to be expected	
Number of products with errors:	200		
5.8 L2 Ocean Retracking Quality (Shook		
~ · ·	SHECK		
L2 Retracking Flags (20Hz)	". <i>(</i>	· · · · · · · · · · · · · · · · · · ·	
CryoSat L2 data includes an ocean retracking qual		-	ttes any problems when set. e number of products with this error flag set is given below.
Number of products with errors:	63	and sea ice, but this is to be expected. Th	e number of products with this error hag set is given below.
	00		
L2 Retracking Flags (20Hz, PLRM)			
CryoSat L2 data includes an ocean retracking qual			
> Ocean Retracking Quality Flag (PLRM): This f	147	OPR and IOPN products over sea ice, but	this is to be expected.
Number of products with errors:	147		
	6. <mark>IOP</mark> L2 P	Pole-to-Pole Data Quality	Check
6.1 P2P Product Format Check			
	ience server, is checked to ensu	re it consists of both an XML beader file (k	IDB) and a NetCDE product file (nc)
Each product, retrieved and unpacked from the sci	ience server, is checked to ensu	re it consists of both an XML header file (.F	IDR) and a NetCDF product file (.nc).
Each product, retrieved and unpacked from the sci Number of products with errors:		re it consists of both an XML header file (.i	IDR) and a NetCDF product file (.nc).
Each product, retrieved and unpacked from the sci		re it consists of both an XML header file (.F	IDR) and a NetCDF product file (.nc).
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis	0		HDR) and a NetCDF product file (.nc).
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis	0		
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors:	0 e performed on the MPH and SP 0		
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are	0 e performed on the MPH and SP 0 Check	H in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage	0 e performed on the MPH and SP 0 Check	H in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors:	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-der 0	H in order to identify any inconsistencies a	nd/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-det 0 Check	H in order to identify any inconsistencies a termined baseline and also to check the va	nd/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-det 0 Check Geophysical Group are checker	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767).	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-del 0 • • Check • Geophysical Group are checker rrection errors raised in the L	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767).	nd/or errors raised by the ground-segment processing chain.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary co followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follow	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-del 0 Check Geophysical Group are checkee rrrection errors raised in the L issues which may arise from twing corrections are not compute	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospi	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary co followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follow Correction and the U-Wind and V-Wind componen	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-der 0 Check Geophysical Group are checked prection errors raised in the L issues which may arise from the wing corrections are not compute ts of the ECMWF model wind very	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospi rctor. This is a known anomaly (CRYO-COI	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct. to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric 2-3) and will be resolved in a future IPF update. The affected products are
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary co followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follo Correction and the U-Wind and V-Wind componen not reported in the table below.	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-det 0 Check Geophysical Group are checkee rrection errors raised in the L issues which may arise from the issues which may arise from the soft the ECMWF model wind we rror value is currently set for pro-	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospi tetor. This is a known anomaly (CRYO-COI ducts over sea ice, but this is to be expected	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct. to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric 2-3) and will be resolved in a future IPF update. The affected products are
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary cor followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follor Correction and the U-Wind and V-Wind componen not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The e	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-def 0 Check Geophysical Group are checkee rrrection errors raised in the L issues which may arise from the wing corrections are not compute ts of the ECMWF model wind vec rror value is currently set for pro- set for products over land and set	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospi sector. This is a known anomaly (CRYO-COI ducts over sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain. Iidity of Auxiliary Data Files is correct. Ito surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ad.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary co followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follo Correction and the U-Wind and V-Wind componen not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The e > Mean Sea Surface: The error value is currently	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-def 0 Check Geophysical Group are checker interaction errors raised in the L issues which may arise from the wing corrections are not compute ts of the ECMWF model wind ver rror value is currently set for prooset for products over land and set currently set for products over land and set	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospl actor. This is a known anomaly (CRYO-COI ducts over sea ice, but this is to be expected. and and sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain. Iidity of Auxiliary Data Files is correct. Ito surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric 2-3) and will be resolved in a future IPF update. The affected products are ad.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary cor followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follow Correction and the U-Wind and V-Wind componen not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The et > Mean Sea Surface: The error value is currently: > Mean Dynamic Topography: The error value is	0 e performed on the MPH and SP 0 Check criptors with respect to a pre-def 0 Check Geophysical Group are checker interaction errors raised in the L issues which may arise from the wing corrections are not compute ts of the ECMWF model wind ver rror value is currently set for prooset for products over land and set currently set for products over land and set	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospl actor. This is a known anomaly (CRYO-COI ducts over sea ice, but this is to be expected. and and sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct. to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric 2-3) and will be resolved in a future IPF update. The affected products are ad.
Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary cor followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follor Correction and the U-Wind and V-Wind componen not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The et > Mean Dynamic Topography: The error value is > Altimetric Wind Speed Error: The error value is	0 a performed on the MPH and SP 0 Check criptors with respect to a pre-det 0 check Geophysical Group are checker rerection errors raised in the L issues which may arise from wing corrections are not comput is of the ECMWF model wind ver rror value is currently set for products over l is currently set for products over l	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospl actor. This is a known anomaly (CRYO-COI ducts over sea ice, but this is to be expected. and and sea ice, but this is to be expected.	nd/or errors raised by the ground-segment processing chain. lidity of Auxiliary Data Files is correct. to surface type. All common flags are summarised in the list below, heric Corection, Wet Tropospheric Correction, Inverse Barometric 2-3) and will be resolved in a future IPF update. The affected products are ad.
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Each product, retrieved and unpacked from the sci Number of products with errors: 6.2 P2P Product Header Analysis For all products, a series of pre-defined checks are Number of products with errors: 6.3 P2P Auxiliary Data File Usage Each product is checked for missing Data Set Des Number of products with errors: 6.4 P2P Auxiliary Correction Error For all products, the auxiliary corrections within the Currently, there are some common auxiliary co followed by a table highlighting any additional > ECMWF Meteo Corrections: Currently the follor Correction and the U-Wind and V-Wind componen not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The e > Mean Sea Surface: The error value is currently > Mean Dynamic Topography: The error value is Number of products with errors: Product	0 a performed on the MPH and SP 0 Check criptors with respect to a pre-det 0 Check Geophysical Group are checkee rrection errors raised in the L issues which may arise from the issues which may arise for pro- set for products over land and se currently set for products over land and se currently set for products over land se currently set for products ov	H in order to identify any inconsistencies a termined baseline and also to check the va d for the default error value (32767). evel 2 products which are expected due this test. ed over CONTINENTAL ICE: Dry Tropospl actor. This is a known anomaly (CRYO-COI ducts over sea ice, but this is to be expected aa ice, but this is to be expected. and and sea ice, but this is to be expected land and sea ice, but this is to be expected and and sea ice, but this is to be expected. Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean	Ind/or errors raised by the ground-segment processing chain. Ind/or errors raised by the ground-segment processing chain. Indicity of Auxiliary Data Files is correct. Indicity of Auxiliary Data Files is correct. It o surface type. All common flags are summarised in the list below, there is a contract of the transformation o

Mean Sea Surface (1), Mean Dynamic

Topography (1)

Topography (1)

CS_OFFL_SIR_IOP_2_20220109T022512_20220109T031448_C001

CS_OFFL_SIR_IOP_2__20220109T031448_20220109T040426_C001

CS_OFFL_SIR_IOP_2_20220109T040426_20220109T045403_C001

There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) $% \left(\left(1-\frac{1}{2}\right) \right) \right) =0$

Topography height (solution 1)

There is an error with the MSS height (solution 1) and the Mean Dynamic

CS OFFL SIR IOP 2 20220109T045403 20220109T054341 C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic
00_0112_011_101_2202201001040400_202201001004041_0001	Tide (GCT), Total Geocentic Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220220109T054341_20220109T063318_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)
CS_OFFL_SIR_IOP_220220109T063318_20220109T072256_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)
CS_OFFL_SIR_IOP_220220109T072256_20220109T081232_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)
CS_OFFL_SIR_IOP_220220109T081232_20220109T090210_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)
CS_OFFL_SIR_IOP_220220109T090210_20220109T095147_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_220220109T095147_20220109T104125_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)
CS_OFFL_SIR_IOP_220220109T104125_20220109T113102_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)
CS_OFFL_SIR_IOP_220220109T113102_20220109T122040_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)
CS_OFFL_SIR_IOP_2_20220109T122040_20220109T131016_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)
CS_OFFL_SIR_IOP_220220109T131016_20220109T135954_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)
CS_OFFL_SIR_IOP_2_20220109T135954_20220109T144931_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)
CS_OFFL_SIR_IOP_220220109T144931_20220109T153909_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)
CS_OFFL_SIR_IOP_220220109T153909_20220109T162846_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)
CS_OFFL_SIR_IOP_220220109T162846_20220109T171824_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)
CS_OFFL_SIR_IOP_2_20220109T171824_20220109T180800_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)
CS_OFFL_SIR_IOP_220220109T180800_20220109T185739_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)
CS_OFFL_SIR_IOP_2_20220109T185739_20220109T194715_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)
CS_OFFL_SIR_IOP_220220109T194715_20220109T203653_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)
CS_OFFL_SIR_IOP_220220109T203653_20220109T212630_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)
CS_OFFL_SIR_IOP_220220109T212630_20220109T221608_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)
CS_OFFL_SIR_IOP_220220109T221608_20220109T230544_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOP_220220109T230544_20220109T235523_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records

6.5 P2P Measurement Confidence Data Check

Number of products with errors:

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

30

 Number of products with errors:
 0

 Product
 Test Failed
 Description

 6.6 P2P Measurement Quality Flag Check
 6.6 P2P Measurement Quality Flag Check
 6.6 P2P Quality Flags (20Hz)

 CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.
 5ince the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

 Number of products with errors:
 30

 P2P Quality Flags (20Hz PLRM)
 Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.

P2P Quality Flags (1 Hz & 1Hz P	RM)						
Since the P2P Quality Flags are copied of	ince the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.						
Number of products with errors:	29						
6.8 P2P Ocean Retracking Qu	ality Check						
P2P Retracking Flags (20Hz)							
	ng quality flag (field 19) for each 20-Hz 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 IOPR and IOPN products over sea ice, but this is to be expected.						
Number of products with errors:	29						
P2P Retracking Flags PLRM							
CryoSat L2 data includes an ocean retracki	g 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 IOPR and IOPN products over sea ice, but this is to be expected.						
Number of products with errors:	29						
	7. IOP QCC Report Analysis						

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	196	196	3	193	0
SIR_IOPR1B	120	103	2	101	0
SIR_IOPN1B	103	120	0	120	0
SIR_IOPM_2	196	196	145	51	0
SIR_IOPR_2	120	103	42	61	0
SIR_IOPN_2	103	120	37	80	3
SIR_IOP_P2P	29	29	0	27	2

7.1 QCC Errors

Number of QCC reports with errors:

	Total number of occurrences of each error										
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_IOPR_2	3	1	3	3	1	3					
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	2	2	2	2							

13

Test	Descrip	otion	Key:

rest bescription key.	est beschption Rey.					
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7				
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7				
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				
	5 5 <u>=</u>	6				

7.2 QCC Warnings

iber of QCC repo	rts with warnings	2168	Total numb	er of occurrences of ea	ich warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF		MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
SIR_IOPM1B	193	0	0	0	0	0	0
SIR_IOPM_2	0	0	46	42	0	37	0
SIR IOPN1B	99	0	0	0	0	0	0
SIR IOPN 2	0	0	6	32	4	23	22
SIR_IOPR1B	114	0	0	0	0	0	0
SIR_IOPR_2	0	3	33	51	2	24	20
	+					+	*
Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCD	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	30	39	0	0	0	0	30
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	15	0	0	20	0	32	0
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	8	0	51	0	61	0	0
Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF			RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_IOPM1B	0	0	0	-	0	0	0
SIR_IOPM_2	0	0	4	32	0	3	38
SIR_IOPN1B	0	0	0		0	0	0
SIR_IOPN_2	0	29	14		52	29	27
SIR_IOPR1B	0	0	•	-	0	0	0
SIR_IOPR_2	51	0	2	65	30	11	42
	-	r	T	r	n	T	T
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF		SCSTODHRNCDF	SCSTODNCDF	-
SIR_IOPM1B	0	0	1	*	0	0	
SIR_IOPM_2	0	1	1	-	0	0	
SIR_IOPN1B	0	0	0	0	48	1	
SIR_IOPN_2	25	12	1	0	0	0	
SIR_IOPR1B	0	0	0	0	120	6	
SIR_IOPR_2	47	1	0	6	0	0	
Product Type	IOHHMOOR	MVIOEPFDNCDF			RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	
SIR_IOP_2_	17	29	28	5	29	17	27
	RPEPOPFDPLRMSINNCD	PDEDODEDSINNODE	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
Dreadwet Turn -	REPOPEDELEMISINNCD				29	18	26
Product Type	10				79	110	20
Product Type SIR_IOP_2_	16	28	23	15	20	10	
	16 RSWHOEPFDNCDF	28 RSWHOEPFDPLRMNCDF		SPHLPQWNCDF	-	-	-

Test Description Key:		
Abbreviation	Test name	Details
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter signa 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	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	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
DE	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_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
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