

QA4EO Daily Report for IOP data:

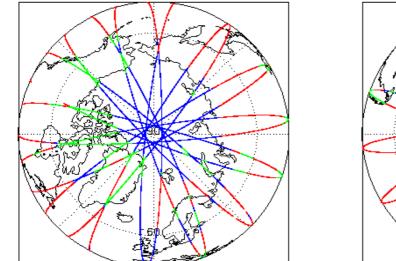
<u>05/12/2021</u>

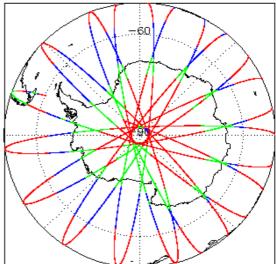
Panart Braduation	09-Dec-2021	Check	L1 & L2	P2P
Report Production:	09-Dec-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
L1B, L2 & P2P S	L1B, L2 & P2P Science Data	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

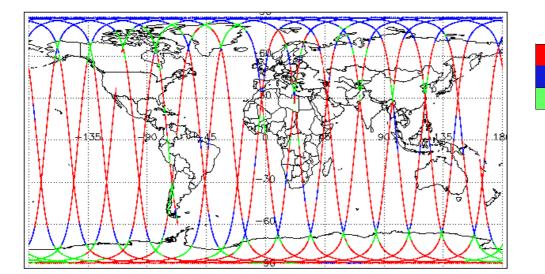
1. Overview

Miss	sion / Instru	iment News
04-I	-Dec-2021	None
05-I	-Dec-2021	None
06-I	-Dec-2021	Nothing planned











3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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).

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The 11b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the 11b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. 0

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag for each measurement record. The bit value of this flag indicates any problems when set.

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

4.6 L1B Waveform Group Data Check

CryoSat L1B data includes a waveform data flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211205T021613_20211205T023128_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211205T073425_20211205T074302_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211205T025957_20211205T030106_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211205T033138_20211205T033755_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211205T043914_20211205T044509_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211205T142908_20211205T143118_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211205T160452_20211205T161005_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211205T184430_20211205T184549_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211205T212333_20211205T212524_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T001828_20211205T002523_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T034229_20211205T034252_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T111302_20211205T112026_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T120937_20211205T121327_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T125210_20211205T125925_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T143125_20211205T143826_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T161005_20211205T161716_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T202450_20211205T202904_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T212524_20211205T212559_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T214113_20211205T214415_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T232934_20211205T233330_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211205T234408_20211205T234641_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

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. Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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

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

Maximum Internation Network Network CS GPTL_SEL_UPUL_2_DOT15000000000000000000000000000000000000			
Number Number Number Number Number 00, 0FH_UNIL_OFM_L_X0F100ETB0500_C001 Number Department Trauge (V) 11 Nem concrete 00, 0FH_UNIL_OFM_L_X0F100ETB0500_C001 Number Department Trauge (V) 11 Nem concrete 00, 0FH_UNIL_OFM_L_X0F100ETB100ED_C001102EEEEB050_C001 Number Department Trauge (V) 11 Nem concrete 00, 0FH_UNIL_OFM_L_X0F100ETB110EE_D20110ETB110EE Number Department Trauge (V) 11 Nem concrete Nem concrete 00, 0FH_UNIL_OFM_L_X0F10ETB110EE_D20110ETB110EE Nem concrete Nem concrete Nem concrete Nem concrete 00, 0FH_UNIL_OFM_L_X0F10ETB110EE X20110ETB110EE X20110ETB11EE X20110ETB11EE X20110ETB11EE X20110ETB11EE X20110ETB11EE X20110ETB11EE X20110EEEEE X20110EEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEEE	Product	Test Failed	Description
BC: OFFL BRI LONG 2: ADDITION 0: ADDITION 0	CS_OFFL_SIR_IOPM_2_20211205T023556_20211205T024254_C001	Mean Dynamic Topography (1)	
BL_DPTL_BPL_DPTL_2RET130T11004_28E1128ET11003_0001 Instrumentation provide Dataset in the USE head to calculate to the US	CS_OFFL_SIR_IOPM_2_20211205T063240_20211205T065831_C001		
Sold Markel Norm 2. 20211000712110021 2021100071211002, COMIT STRENG COMIT Targography (1) The graph and the Markel Normalin Targography (1) Sold Markel Normalization (1) Markel Nyamine Targography (1) There is an one with the Markel Nyamine Targography (1) Sold Markel Normalization (1) Markel Nyamine Targography (1) There is an one with the Markel Nyamine Targography (1) Sold Markel Normalization (1) Markel Nyamine Targography (1) There is an one with the Markel Nyamine Targography (1) Sold Markel Name Markel Nyamine Targography (1) There is an one with the Markel Nyamine Targography (1) Sold Markel Name Markel Nyamine Targography (1) There is an one with the Markel Nyamine Targography (1) Sold Markel Name Markel Nyamine Targography (1) There is an one with the Markel Nyamine Targography (1) Sold Markel Name Markel Nyamine Targography (1) There is an one with the MARKel Nyamine Targography (1) Sold Markel Name Markel Nyamine Targography (1) There is an one with the MARKel Nyamine Targography (1) Sold Markel Name Markel Nyamine Targography (1) There is an one with the MARKel Nyamine Targography (1) Sold Markel Name Markel Nyamine Targography (1) There is an one with the MARKel Nyamine Targography (1) Sold Markel Nyamine Targography (CS_OFFL_SIR_IOPM_2_20211205T112048_20211205T114323_C001	Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean	GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean
SQL CHP_LIGN_UPM_Z_REVINENTIALS_CONTRACTIONS_CO	CS_OFFL_SIR_IOPM_2_20211205T175730_20211205T175826_C001		
CSUP_DRUCALCAPT INSTACKAPUT INTERSTITUCT Mean Optimizant (Digitality (1)) monocods CS_OPPL_SH_OPPL_PROFILENCE_DOUGLESS_COPPL_SH_OPPL_PROFILENCE Mean Optimizant (Digitality (1)) monocods CS_OPPL_SH_OPPL_PROFILENCE_DOUGLESS_COPPL_SH_OPPL_PROFILENCE Mean Optimizant (Digitality (1)) monocods CS_OPPL_SH_OPPL_PROFILENCE_DOUGLESS_COPPL_PROFILENCE Mean Optimizant (Digitality (1)) monocods CS_OPPL_SH_OPPL_PROFILENCE Mean Optimizant (Digitality (1)) Mean Optimizant (Digitality (1)) monocods CS_OPPL_SH_OPPL_PROFILENCE Mean Optimizant (Digitality (1)) Mean Optimizant (Digitality (1)) monocods monocods CS_OPPL_SH_OPPL_PROFILENCE Mean Optimizant (Digitality (1)) monocods monocods monocods CS_OPPL_SH_OPPL_PROFILENCE Mean Optimizant (Digitality (1)) monocods monocods monocods monocods CS_OPPL_SH_OPPL_PROFILENCE Mean Optimizant (Digitality (Digita	CS_OFFL_SIR_IOPM_2_20211205T211535_20211205T211626_C001	Mean Dynamic Topography (1)	, , , , , , , ,
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CSU DFL_SH_UPFL2_202112051022692_20211205102016_0001 Topography (n) Topography (n) Topography (n) CSL_OFFL_SH_UPFL2_202112051022692_20211205102016_0001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total CSL_OFFL_SH_UPFL2_202112051002576_2001 Mean Dynamic Topography (1), Total There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total CSL_OFFL_SH_UPFL2_202112051052022_202112051052269_0001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CSL_OFFL_SH_UPFL2_20211205105202_202112051052269_0001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) CSL_OFFL_SH_UPFL2_20211205105202_202112051052269_0001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CSL_OFFL_SH_UPFL2_20211205105202_20212051062342_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Total Sea Surface (1), Total Geocetric Dear Total Sec Surface (2), Mean Dynamic Topography (1) CSL_OFFL_SH_UPFL2_20211205100128_20211205100128_20201 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Total Geocetric Dear Total Sec Surface (1), Total Geocetric Dear Total Sec Surface (1), Mean Dynamic Topography (1)	CS_OFFL_SIR_IOPN_2_20211205T012051_20211205T012541_C001		
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CE_OFFL_SIR_IOPN_2_20211205T0318_20211205T03575_0001 Decominic Ocean Tob (FES), Non- Tob decominic Ocean Tob (FES), Non- tor Records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_IOPN_2_20211205T052300_02211205T052320_0001 Mean Dynamic Topography (I) Mean Dynamic Topography (I) There is an error with the MSS height (solution 1), the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_IOPN_2_20211205T052320_0001 Mean Dynamic Topography (I) Mean Sta Subcice (I), Total decounted Coean Topography isolation 1), the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_IOPN_2_20211205T070131_20211205T070312_C001 Mean Sta Subcice (I), Total decounted Coean Tob (solution 1), solution 1), and the Total Geoorthic Ocean Tob (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynam	CS_OFFL_SIR_IOPN_2_20211205T025957_20211205T030106_C001		
CB_OFFL_SIR_UOPN_2_20211205T05202_20211205T05230_C001 Teopgraphy (1) There is an error with the Mean Dynamic Topography height for one or more records CB_OFFL_SIR_UOPN_2_20211205T052202_0211205T052342E_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or nore records CS_OFFL_SIR_UOPN_2_20211205T052202_0211205T052342E_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or nore records CS_OFFL_SIR_UOPN_2_20211205T061927_20211205T062334_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_UOPN_2_20211205T061926_20211205T080538_C001 Ceaen Tde (GOTI) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_UOPN_2_20211205T080126_20211205T080538_C001 Ceaen Tde (GOTI) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_UOPN_2_20211205T111302_C0011 Mean Sea Surface (1), Mean Dynamic Topograph	CS_OFFL_SIR_IOPN_2_20211205T033138_20211205T033755_C001	Geocentric Ocean Tide (FES), Non-	Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium
Column Start Column Start<	CS_OFFL_SIR_IOPN_2_20211205T043914_20211205T044509_C001		
OS_DFPL_SIR_LOPN_2_20211205T003282_2001 Inter the update Upd	CS_OFFL_SIR_IOPN_2_20211205T052202_20211205T052350_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20211205T061327_20211205T062334_C001 Topography (1), Total Geocentric Ocean Total (2001) or nor more records CS_OFFL_SIR_IOPN_2_20211205T070131_20211205T070312_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Total (solution 1). CS_OFFL_SIR_IOPN_2_20211205T080128_20211205T080538_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Total (solution 1). CS_OFFL_SIR_IOPN_2_20211205T080128_20211205T084510_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1). CS_OFFL_SIR_IOPN_2_20211205T102453_20211205T102414_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1). CS_OFFL_SIR_IOPN_2_20211205T120828_20211205T1102414_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1). CS_OFFL_SIR_IOPN_2_20211205T120828_20211205T14925_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (solution 1). There is an error with the MSS height (solution 1) and the Mean Dynamic To	CS_OFFL_SIR_IOPN_2_20211205T053200_20211205T053425_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_2021120510/031_2021120510/031_2001 Mean Sea Surface (1), Total Geocentric Cean offle (Solution 1: GCT) for one or more records CS_OFFL_SIR_IOPN_2_20211205T080128_20211205T08450_C001 Mean Sea Surface (1), Nean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211205T084139_20211205T08450_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography Height (solution 1) CS_OFFL_SIR_IOPN_2_20211205T102512_2051102414_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography Height (solution 1) CS_OFFL_SIR_IOPN_2_20211205T111132_20211205T1111302_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211205T134531_20211205T134725_C001 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211205T134521_20211205T16452_2021 Mean Sea Surface (1), Mean Dynamic Topography Height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography Height (solution 1) CS_OFFL_SIR_IOPN_2_20211205T16442_20211205T164582_C001 Mean Sea Surface (1), Mean Dynamic Topography Height	CS_OFFL_SIR_IOPN_2_20211205T061927_20211205T062334_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS_OFFL_SIR_IOPN_2_202112051080126_202112051084510_C001 Ceean Tide (GOT) Geocentric Ocean Tide (solution 1: GOT) for one or more records CS_OFFL_SIR_IOPN_2_20211205T084139_20211205T084510_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_20211205T102053_20211205T102414_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211205T111302_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_20211205T134531_20211205T130937_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211205T134531_20211205T134725_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211205T16452_20211205T161005_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOPN_2_20211205T165441_20211205T165736_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography	CS_OFFL_SIR_IOPN_2_20211205T070131_20211205T070312_C001	Mean Dynamic Topography (1)	
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CS_OFFL_SIR_IOPN_2_202112051134331_202112051134725_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211205T143118_20211205T143125_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_20211205T160452_20211205T161005_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_20211205T165441_20211205T165736_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_20211205T174449_20211205T174828_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211205T174449_20211205T174828_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_IOPN_2_20211205T192017_20211205T192522_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_20211205T193448_20211205T21524_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_202112	CS_OFFL_SIR_IOPN_2_20211205T120828_20211205T120937_C001	Mean Dynamic Topography (1)	, , , , , ,
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CS_OFFL_SIR_IOPN_2_20211205T192017_20211205T192522_C001 Topography (1) Topography height (solution 1) CS_OFFL_SIR_IOPN_2_20211205T192017_20211205T192522_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_20211205T193448_20211205T193610_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_20211205T212333_20211205T212524_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_20211205T212533_20211205T212524_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_20211205T2125344_20211205T215510_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_20211205T165441_20211205T165736_C001	Mean Dynamic Topography (1)	
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CS_OFFL_SIR_IOPN_2_20211205121233_202112051212524_0001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or	CS_OFFL_SIR_IOPN_2_20211205T193448_20211205T193610_C001	Mean Dynamic Topography (1)	
	CS_OFFL_SIR_IOPN_2_20211205T212333_20211205T212524_C001	Mean Dynamic Topography (1)	
	CS_OFFL_SIR_IOPN_2_20211205T215344_20211205T215510_C001	Mean Dynamic Topography (1)	

CS_OFFL_SIR_IOPN_2_20211205T220027_20211205T220333_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_20211205T233330_20211205T233633_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_20211205T233928_20211205T234308_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_20211205T011524_20211205T011940_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_20211205T011940_20211205T012051_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_20211205T025321_20211205T025656_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_20211205T025656_20211205T025957_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_20211205T043258_20211205T043914_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_20211205T061435_20211205T061927_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_20211205T075209_20211205T080126_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_20211205T093226_20211205T094020_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_20211205T111302_20211205T112026_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_20211205T125210_20211205T125925_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_20211205T140652_20211205T140906_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_IOPR_2_20211205T143125_20211205T143826_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_20211205T161005_20211205T161716_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_20211205T174829_20211205T175114_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_20211205T175114_20211205T175730_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_20211205T192522_20211205T193301_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_20211205T210452_20211205T211121_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_20211205T211121_20211205T211404_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_20211205T224338_20211205T225021_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_20211205T225021_20211205T225204_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)

5.5 L2 Measurement Confidence Data Check

CryoSat L2 data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:
0

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

87

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211205T000050_20211205T001828_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T003730_20211205T005149_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
		The Ocean Altimeter Range, SSHA, SWH 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_20211205T005900_20211205T010811_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_20211205T012558_20211205T014347_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_20211205T014517_20211205T015917_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_20211205T020707_20211205T020909_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_20211205T021013_20211205T021411_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_20211205T021613_20211205T023128_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_20211205T023329_20211205T023553_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_20211205T023556_20211205T024254_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_20211205T024946_20211205T025321_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_20211205T030539_20211205T032158_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_20211205T032912_20211205T033057_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_20211205T033755_20211205T034035_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_20211205T034512_20211205T035314_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_20211205T035611_20211205T041037_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_20211205T042544_20211205T042627_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_20211205T044536_20211205T044613_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_20211205T044634_20211205T052011_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_20211205T052627_20211205T053200_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_20211205T053608_20211205T055947_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_20211205T063240_20211205T065831_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_20211205T070600_20211205T071041_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_20211205T071518_20211205T073422_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_20211205T074948_20211205T075209_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_20211205T080538_20211205T083703_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_20211205T084510_20211205T085042_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_20211205T085434_20211205T085829_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_20211205T092937_20211205T093225_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_20211205T094425_20211205T101718_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_20211205T102414_20211205T102927_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_20211205T103458_20211205T105109_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_20211205T110909_20211205T110928_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_20211205T112048_20211205T114323_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_20211205T114405_20211205T115604_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_20211205T121327_20211205T123929_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_20211205T123944_20211205T124700_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_20211205T124817_20211205T125101_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_20211205T130156_20211205T131355_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_20211205T131836_20211205T132001_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_20211205T132325_20211205T133548_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_20211205T133756_20211205T134314_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_20211205T135352_20211205T140652_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_20211205T140906_20211205T142559_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_20211205T144831_20211205T145856_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_20211205T150036_20211205T151422_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_20211205T151723_20211205T152226_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_20211205T152233_20211205T152244_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_20211205T152250_20211205T152405_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_20211205T153912_20211205T154257_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_20211205T154957_20211205T155246_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_20211205T155409_20211205T160120_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_20211205T160242_20211205T160430_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_20211205T162156_20211205T162404_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_20211205T163258_20211205T165320_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T165736_20211205T170144_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPM_2_20211205T170858_20211205T173146_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T180837_20211205T183225_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T183533_20211205T184058_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPM_2_20211205T184105_20211205T184430_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPM_2_20211205T184835_20211205T192017_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T194336_20211205T194422_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPM_2_20211205T194512_20211205T200516_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T200723_20211205T201136_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T201533_20211205T202338_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPM_2_20211205T202904_20211205T210100_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T211404_20211205T211517_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T214415_20211205T214928_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T215510_20211205T220027_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPM_2_20211205T220720_20211205T222839_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T223125_20211205T224150_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T225217_20211205T225701_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T231220_20211205T231734_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T231921_20211205T232934_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20211205T233633_20211205T233928_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPM_2_20211205T234641_20211206T001246_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211205T034206_20211205T034229_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211205T052202_20211205T052350_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPN_2_20211205T180426_20211205T180635_C001	The OCOG Altimeter Range and Backscatter Quality Flags have been set or one or more records.
CS_OFFL_SIR_IOPR_2_20211205T011524_20211205T011940_C001	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPR_2_20211205T021550_20211205T021613_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_20211205T025321_20211205T025656_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_20211205T061435_20211205T061927_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_20211205T124700_20211205T124716_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_20211205T211121_20211205T211404_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_20211205T231734_20211205T231921_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_20211205T002523_20211205T002800_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_20211205T002958_20211205T003531_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_20211205T011456_20211205T011524_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_20211205T012051_20211205T012541_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_20211205T020432_20211205T020707_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_20211205T021411_20211205T021549_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_20211205T024254_20211205T024536_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_20211205T030212_20211205T030335_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_20211205T033138_20211205T033755_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_20211205T035314_20211205T035502_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_20211205T042026_20211205T042401_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_20211205T043914_20211205T044509_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_20211205T052558_20211205T052627_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_20211205T053200_20211205T053425_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_20211205T055947_20211205T060050_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_20211205T061246_20211205T061308_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_20211205T061927_20211205T062334_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_20211205T070131_20211205T070312_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_20211205T071156_20211205T071319_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_20211205T080126_20211205T080538_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_20211205T085042_20211205T085158_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_20211205T090929_20211205T091056_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_20211205T092835_20211205T092937_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_20211205T094331_20211205T094425_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_20211205T105109_20211205T105433_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_20211205T115805_20211205T120001_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_20211205T142908_20211205T143118_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_20211205T144508_20211205T144831_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_20211205T151535_20211205T151723_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_20211205T153617_20211205T153912_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_20211205T154257_20211205T154813_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_20211205T160452_20211205T161005_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_20211205T162608_20211205T162933_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_20211205T170401_20211205T170656_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_20211205T174242_20211205T174404_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_20211205T174449_20211205T174828_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_20211205T180728_20211205T180837_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_20211205T183419_20211205T183533_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_20211205T192017_20211205T192522_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_20211205T193448_20211205T193610_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_20211205T210100_20211205T210228_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_20211205T213413_20211205T213541_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_20211205T220027_20211205T220333_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_20211205T230921_20211205T231220_C001 OCOG Backscatter Quality	or more records.
CS_OFFL_SIR_IOPN_2_20211205T233330_20211205T233633_C001 OCOG Altimeter Range Qua OCOG Backscatter Quality	
CS_OFFL_SIR_IOPN_2_20211205T233928_20211205T234308_C001 OCOG Altimeter Range Qua OCOG Backscatter Quality	lity PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20211205T234356_20211205T234408_C001 CS_OFFL_SIR_IOPN_2_20211205T234356_2021 CS_OFFL_SIR_IOPN_2_20211205T234356_2021 CS_OFFL_SIR_IOPN_2_20211205T234356_2021 CS_OFFL_SIR_IOPN_2_20211205T234408_C001 CS_OFFL_SIR_IOPN_2_20211205T234408_C001 CS_OFFL_SIR_IOPN_2_2021 CS_OFFL_SIR_IOPN_2_202 CS_OFFL_SIR_IOPN_2_	RM, OCOG Ine Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T001828_20211205T002523_C001 CS_OFFL_SIR_IOPR_2_20211205T001828_2021020 CS_OFFL_SIR_IOPR_2_20211205T001828_20210 CS_OFFL_SIR_IOPR_2_20211205T001828_2021 CS_OFFL_SIR_IOPR_2_20211205T001828_2021 CS_OFFL_SIR_IOPR_2_20211205T002523_C001 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_202 CS_OFF	RM, OCOG and the OCOG Altimeter Range, SSRA, SWR and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T003531_20211205T003730_C001 CS_OFFL_SIR_IOPR_2_20211205T003531_20211205T003730_C001 Altimeter Range, SS and Backscatter Quality PLF Altimeter Range, and Backsc	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T005149_20211205T005309_C001 OCOG Altimeter Range Qua OCOG Backscatter Quality	lity PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T011341_20211205T011456_C001 CS_OFFL_SIR_IOPR_2_20211205T011341_20211205T011456_C001 Attimeter Range and Backson PLRM	RM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T011524_20211205T011940_C001 CS_OFFL_SIR_IOPR_2_20211205T011524_20211205T011940_C001 Attimeter Range and Backson PLRM	RM, OCOG Ine Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T014347_20211205T014517_C001 OCOG Altimeter Range Qua OCOG Backscatter Quality	lity PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T015917_20211205T020432_C001 Ocean Altimeter Range, SS And Backscatter Quality PLF Altimeter Range and Backsc PLRM	and the OCCG Altimeter Range, SSFA, SWH and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T025656_20211205T025957_C001 CS_OFFL_SIR_IOPR_2_20211205T025656_20211205T025957_C001 CCean Altimeter Range, SS and Backscatter Quality PLF Altimeter Range and Backsc PLRM	and the OCOG Altimeter Range, SSFA, SWH 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_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034229_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_20211205T034252_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_C001 CCs_OFFL_SIR_IOPR_2_20211205T034259_C001 CCs_OFFL_SIR_IOPR_2000 CCS_OF	RM, OCOG
CS_OFFL_SIR_IOPR_2_20211205T041037_20211205T041604_C001 OCOG Altimeter Range Qua OCOG Backscatter Quality	or more records.
CS_OFFL_SIR_IOPR_2_20211205T043258_20211205T043914_C001 CS_OFFL_SIR_IOPR_2_20211205T043258_20211205T043914_C001 Altimeter Range and Backson PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T052011_20211205T052202_C001 Altimeter Range and Backscatter Quality PLF Altimeter Range and Backsc	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T061024_20211205T061246_C001 OCCG Altimeter Range Qua OCCG Backscatter Quality	or more records.
CS_OFFL_SIR_IOPR_2_20211205T061435_20211205T061927_C001 Ocean Altimeter Range, SS And Backscatter Quality PLF Altimeter Range and Backsc PLRM	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T074842_20211205T074948_C001 OCOG Altimeter Range Qua OCOG Backscatter Quality	or more records.
CS_OFFL_SIR_IOPR_2_20211205T075209_20211205T080126_C001 CS_OFFL_SIR_IOPR_2_20211205T075209_2021 CS_OFFL_SIR_IOPR_2_20211205T075209_202 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_202 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_2021 CS_OFFL_SIR_IOPR_2_202 CS_OFFL_SIR_IOPR_2_202	and the OCOG Altimeter Range, SSFA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T083703_20211205T084139_C001 CCs_OFFL_SIR_IOPR_2_20211205T083703_20211205T084139_C001 CCs_OFFL_SIR_IOPR_2_20211205T083703_2021 CCs_OFFL_SIR_IOPR_2_20211205T084139_C001 CCs_OFFL_SIR_IOPR_2_20211205T084139_C001 CCs_OFFL_SIR_IOPR_2_20211205T084139_C001 CCs_OFFL_SIR_IOPR_2_2021 CCs_OFFL_SIR_IOPR_2_202 CCs_OFFL_SIR_	and the OCCG Altimeter Range, SSFA, SWH and Backscatter Quality Flags and the OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T085158_20211205T085434_C001 Ocean Altimeter Range, SS And Backscatter Quality PLF Altimeter Range and Backsc PLRM	and the OCOG Altimeter Range, SSFA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T093226_20211205T094020_C001 CCs_OFFL_SIR_IOPR_2_20211205T093226_20211205T094020_C001 CCs_OFFL_SIR_IOPR_2_20211205T093226_2021 CCs_OFFL_SIR_IOPR_2_20211205T093226_2021 CCs_OFFL_SIR_IOPR_2_20211205T093226_2021 CCs_OFFL_SIR_IOPR_2_20211205T094020_C001 CCs_OFFL_SIR_IOPR_2_2021 CCs_OFFL_SIR_IOPR_2_2021 CCs_OFFL_SIR_IOPR_2_2021 CCs_OFFL_SIR_IOPR_2_2021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_2_2021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_222021 CCs_OFFL_SIR_IOPR_22202 CCs_OFFL_SIR_IOPR_22202 CCs_OFFL_SIR_IOPR_22202 CCs_OFFL_SIR_IOPR_2220 CCS_O	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPR_2_20211205T094219_20211205T094331_C001 OCOG Altimeter Range Qua OCOG Backscatter Quality	or more records.
CS_OFFL_SIR_IOPR_2_20211205T101718_20211205T102053_C001 CS_OFFL_SIR_IOPR_2_20211205T101718_20211205T102053_C001 CCean Altimeter Range, SS and Backscatter Quality PLF Altimeter Range and Backsc PLRM Comparison of the second	and the OCOG Altimeter Range, SSFA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20211205T103051_20211205T103458_C001 CS_OFFL_SIR_IOPR_2_20211205T103051_20211205T103458_C001 Altimeter Range and Backson PLRM	RM, OCOG and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags

CS_OFFL_SIR_IOPR_2_20211205T105926_20211205T105958_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_20211205T110139_20211205T110449_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_20211205T111302_20211205T112026_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_20211205T112028_20211205T112041_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_20211205T120937_20211205T121327_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_20211205T125210_20211205T125925_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_20211205T132257_20211205T132325_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_20211205T134725_20211205T135352_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_20211205T140652_20211205T140906_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_20211205T143125_20211205T143826_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_20211205T143835_20211205T143840_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_20211205T153254_20211205T153356_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_20211205T161005_20211205T161716_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_20211205T174829_20211205T175114_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_20211205T175114_20211205T175730_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_20211205T184549_20211205T184835_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_20211205T192522_20211205T193301_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_20211205T193331_20211205T193448_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_20211205T202450_20211205T202904_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_20211205T210452_20211205T211121_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_20211205T211819_20211205T211917_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_20211205T224338_20211205T225021_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_20211205T232934_20211205T233330_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_20211205T234308_20211205T234356_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.
10 Quality Flame (1 Ha & 1Ha DI DM)		

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

L2 Retracking Flags (20Hz)						
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea	surement record. The bit value of this flag indic	cates any problems when set.				
Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.						
Number of products with errors: 67						
L2 Retracking Flags (20Hz, PLRM)	Management and the bit of the fille					
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR Ocean Retracking Quality Flag (PLRM): This flag is currently set for produc		• •				
Number of products with errors: 148	is for manufor mproducts over sea ice, but					
6. IOP L2	Pole-to-Pole Data Quality	Check				
6.1 P2P Product Format Check						
Each product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML header file (.HDR) and a NetCDF product file (.nc).				
Number of products with errors: 0						
6.2 P2P Product Header Analysis						
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsistencies	and/or errors raised by the ground-segment processing chain.				
Number of products with errors: 0						
6.3 P2P Auxiliary Data File Usage Check						
Each product is checked for missing Data Set Descriptors with respect to a pr	e-determined baseline and also to check the v	alidity of Auxiliary Data Files is correct.				
Number of products with errors: 0						
·						
6.4 P2P Auxiliary Correction Error Check						
For all products, the auxiliary corrections within the Geophysical Group are ch	ecked for the default error value (32767).					
Currently, there are some common auxiliary correction errors raised in t below, followed by a table highlighting any additional issues which may		e to surface type. All common flags are summarised in the list				
ECMWF Meteo Corrections: Currently the following corrections are not con Correction and the U-Wind and V-Wind components of the ECMWF model will are not reported in the table below.						
> Sea State Bias & Sea State Bias PLRM: The error value is currently set fo	r products over sea ice, but this is to be expec	sted.				
 > Sea State Bias & Sea State Bias PLRM: The error value is currently set fo > Mean Sea Surface: The error value is currently set for products over land a 		ted.				
> Mean Sea Surface: The error value is currently set for products over land a	nd sea ice, but this is to be expected.					
> Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of the error value is currentl	nd sea ice, but this is to be expected. wer land and sea ice, but this is to be expected	d.				
 > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products or a land a > Altimetric Wind Speed Error: The error value is currently set for products 	nd sea ice, but this is to be expected. wer land and sea ice, but this is to be expected	d.				
 > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products or a litimetric Wind Speed Error: The error value is currently set for products Number of products with errors: 30 	nd sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected	d.				
 > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products or a Altimetric Wind Speed Error: The error value is currently set for products > Altimetric Wind Speed Error: The error value is currently set for products > Mumber of products with errors: 30 Product 	nd sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected	d. ad. Description				
 Mean Sea Surface: The error value is currently set for products over land a Mean Dynamic Topography: The error value is currently set for products or a litimetric Wind Speed Error: The error value is currently set for products Altimetric Wind Speed Error: The error value is currently set for products Number of products with errors: 30 Product CS_OFFL_SIR_IOP_2_20211204T233958_20211205T002933_C002 	nd sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected whether the sea surface (1), Mean Dynamic	d. ed. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
> Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products Number of products with errors: 30 Product CS_OFFL_SIR_IOP_2_20211204T233958_20211205T002933_C002 CS_OFFL_SIR_IOP_2_20211205T002933_20211205T011912_C001	nd sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	d. ed. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
 > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products or a land a > Altimetric Wind Speed Error: The error value is currently set for products 	Ind sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	d. ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic				
> Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products Number of products with errors: 30 Product CS_OFFL_SIR_IOP_2_20211204T233958_20211205T002933_C002 CS_OFFL_SIR_IOP_2_20211205T002933_20211205T011912_C001 CS_OFFL_SIR_IOP_2_20211205T011912_20211205T020847_C001	Ind sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	d. ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic				
> Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products Number of products with errors: 30 Product CS_OFFL_SIR_IOP_2_20211204T233958_20211205T002933_C002 CS_OFFL_SIR_IOP_2_20211205T002933_20211205T011912_C001 CS_OFFL_SIR_IOP_2_20211205T011912_20211205T020847_C001 CS_OFFL_SIR_IOP_2_20211205T020847_20211205T025827_C001 CS_OFFL_SIR_IOP_2_20211205T020847_20211205T025827_C001 CS_OFFL_SIR_IOP_2_20211205T025827_20211205T034802_C001	Ind sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected Image: Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long	d. ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records				
> Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products Number of products with errors: 30 Product CS_OFFL_SIR_IOP_2_20211204T233958_20211205T002933_C002 CS_OFFL_SIR_IOP_2_20211205T002933_20211205T011912_C001 CS_OFFL_SIR_IOP_2_20211205T011912_20211205T020847_C001 CS_OFFL_SIR_IOP_2_20211205T020847_20211205T025827_C001	Ind sea ice, but this is to be expected. wer land and sea ice, but this is to be expected over land and sea ice, but this is to be expected Image: Test Failed Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic	d. ad. Description There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic				
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CS_OFFL_SIR_IOP_2_20211205T111440_20211205T120416_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_2_20211205T120416_20211205T125355_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_20211205T125355_20211205T134330_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_20211205T134330_20211205T143310_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_2_20211205T143310_20211205T152245_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_20211205T152245_20211205T161224_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_20211205T161224_20211205T170200_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_20211205T170200_20211205T175139_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_20211205T175139_20211205T184114_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_20211205T184114_20211205T193054_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_20211205T193054_20211205T202029_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_20211205T202029_20211205T211009_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_20211205T211009_20211205T215944_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_20211205T215944_20211205T224923_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_20211205T224923_20211205T233858_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_20211205T233858_20211206T002838_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)

6.5 P2P Measurement Confidence Data Check

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.

Number of products with errors:

6.6 P2P Measurement Quality Flag Check

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.

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.

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Number of products with errors:

P2P Quality Flags (20Hz PLRM)

Since the P2P Quality Flags are copied directly fi	om the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	29
P2P Quality Flags (1 Hz & 1Hz PLRM)	
Since the P2P Quality Flags are copied directly fi	om the L2 Quality Flags, please see Section 5.6 for the full list of products affected.
Number of products with errors:	30
6.8 P2P Ocean Retracking Quality (Check

P2P Retracking Flags (20Hz)

Cryosat P2P data includes an ocean retracking 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:

P2P Retracking Flags PLRM

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

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

Number of products with errors:

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	188	188	5	183	0
SIR_IOPR1B	110	99	1	98	0
SIR_IOPN1B	99	110	0	110	0
SIR_IOPM_2	188	188	129	59	0
SIR_IOPR_2	110	99	37	61	1
SIR_IOPN_2	99	110	24	85	1
SIR_IOP_P2P	29	29	0	26	3

7.1 QCC Errors

Number of QC	C reports with er	rors:	14								
					Total number	of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_IOPN_2	1	0	1	1	0	1					
SIR_IOPR_2	1	1	1	1	1	1					
							•				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	3	3	3	3							
									•		

Test Description Key:				
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		

7.2 QCC Warnings

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umber of QCC repo	nts with warnings	2240	Total num	ber of occurrences of	each warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR IOPM1B	183	0	0	0	0	0	0
SIR IOPM 2	0	0	45	46	1	48	0
SIR IOPN1B	96	0	0	0	0	0	0
SIR IOPN 2	0	1	12	30	3	23	29
SIR_IOPR1B	108	0	0	0	0	0	0
SIR_IOPR_2	0	1	36	50	1	32	25
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSAR	ICERPEPOPFDPLRMSINNC	DRPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	39	1	37	0	0	0	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	19	1	0	0	24	0	33
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	13	4	0	52	0	58	0
		1			1		1
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	29	0	0	7	23	0	4
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	28	20	42	51	24
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	52	0	5	73	29	15
	2011/10/22/2010/2			001000000000000000000000000000000000000		00070010007	00070707077
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF		SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	37	0	2	0	0	0	0
SIR_IOPN1B	0	0	0	1	0	51	3
SIR_IOPN_2	28	29	14	0	1	0	0
SIR_IOPR1B	0	0	0	0	0	110	4
SIR_IOPR_2	39	50	4	0	3	0	0
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR IOP 2	18	29	29	5	29	17	28
		-*		·			
Product Type	RNELPOTONCDF	RPEPOPFDPLRMSINNC	RPEPOPFDSINNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_	6	15	29	25	18	29	19
							· · · · · · · · · · · · · · · · · · ·
Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCD		SPHLPQWNCDF	•	-
SIR_IOP_2_	21	29	19	17	29		
Due due t Ter							
Product Type		-	-	-		-	•
SIR_IOP_2_							

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
	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	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
RSWHOEPFDPLRMN CDF	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