

QA4EO Daily Report for NOP data:

<u>10/12/2021</u>

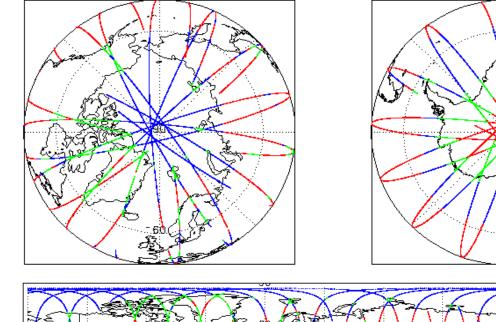
	12 Dec 2021	Check	L1 & L2
Report Production:	13-Dec-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:		Server check: calval-pds.cryosat.esa.int	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Used:	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2

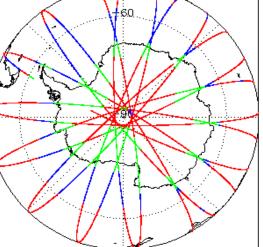
1. Overview

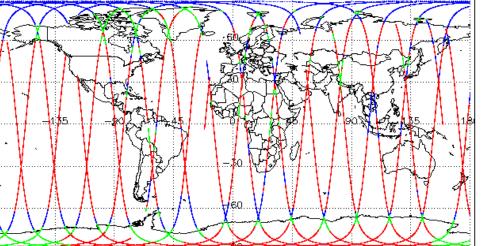
10-Dec-2021	None

11-Dec-2021 Nothing planned

2. Global Coverage









LRM
SAR
SARIn

3. Instrument Configuration

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

SIRAL - A
Star Tracker 1 & 2

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

0

4.2 L1B Product Header Analysis
For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_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: 0
4.3 L1B Auxilary Data File Usage Check
Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.
Number of products with errors: 0

4.4 L1B Auxiliary Correction Error Check

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

0

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 NOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update. 2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20211210T035502_20211210T040002_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20211210T185054_20211210T185322_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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_NOPM1B_20211210T083547_20211210T083639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211210T084926_20211210T090020_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211210T090030_20211210T092312_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211210T115255_20211210T115258_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211210T145359_20211210T150554_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20211210T220105_20211210T220113_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211210T034502_20211210T034714_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211210T052421_20211210T052906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211210T115628_20211210T115753_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211210T151027_20211210T151340_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211210T151352_20211210T151602_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20211210T215729_20211210T215817_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T001553_20211210T001706_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T083821_20211210T084610_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T093625_20211210T093940_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T101804_20211210T102835_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T111532_20211210T111854_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T202151_20211210T202342_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T204941_20211210T205231_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T205611_20211210T205923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211210T223510_20211210T223851_C001	Loss of Echo	The tracking echo is missing for one or more records

5. NOP Level 2 Data Quality Check

5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL). 0 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.

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

5.4 L2 Auxiliary Correction Error Check

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

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

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

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

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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:

CS_OFFL_SIR_NOPK_2_202112/0700246_202112/0700246_2001 Mean Sas Surbac (1) Mean Sur	oduct	Test Failed	Description
 CS, OFFL, SR, NOPN 2, 20211210710108, 202112107101222, 0001 Mens Sie Surface (1), Mens Dynamic CS, OFFL, SR, NOPN 2, 202112107102050, 202112107107050, 202112107105050, 2001 CS, OFFL, SR, NOPN, 2, 202112107105052, 2021121071050	S_OFFL_SIR_NOPM_2_20211210T012608_20211210T014830_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
St. OFFL_SIR_NOPN_2_001121010100_S20210210101522_0001 Trapsgraphy (1) Trapsgraphy (1) Trapsgraphy (1) CS_OFFL_SIR_NOPN_2_00112101030302_002112101030302_002112101030302_0001 Mean Bos Surface (1) Mean Dynamic There is an error with the MSS hight (balation 1) and the Mean Dynamic Topsgraphy (1) CS_OFFL_SIR_NOPN_2_002112101030302_002112101030302_002112101030302_0001 Mean Bos Surface (1) Mean Dynamic Topsgraphy (1) There is an error with the MSS hight (balation 1) and the Mean Dynamic Topsgraphy (1) CS_OFFL_SIR_NOPN_2_002112101030302_002112101030300_0001 Mean Dynamic Topsgraphy (1) There is an error with the MSS hight (balation 1) and the Mean Dynamic Topsgraphy (1) CS_OFFL_SIR_NOPN_2_002112101030382_0001 Mean Sos Surface (1) Mean Dynamic Topsgraphy (1) There is an error with the MSS hight (balation 1) and the Mean Dynamic Topsgraphy (1) CS_OFFL_SIR_NOPN_2_00211210103133_0001 Mean Sos Surface (1) Mean Dynamic Topsgraphy (1) There is an error with the MSS hight (balation 1) and the Mean Dynamic Topsgraphy (1) CS_OFFL_SIR_NOPN_2_00211210103133_0001 Mean Sos Surface (1) Mean Dynamic Topsgraphy (1) There is an error with the MSS hight (balation 1) and the Mean Dynamic Topsgraphy (1) CS_OFFL_SIR_NOPN_2_00211210103133_0001 Mean Sos Surface (1) Mean Dynamic Topsgraphy (1) There is an error with the MSS hight (balation 1) and the Mean Dynamic Topsgraphy (1) CS_OFFL_SIR_NOPN_2_002112101034340_002112101034340_0001 Mean S	S_OFFL_SIR_NOPN_2_20211210T002646_20211210T002649_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
Case_Der_L_Sile_NOPM_2_20211210703402_202112107034714_0001 Trapgraphy (1) Trapgraphy (2) Trapgraphy (2) CS_OFFL_SIR_NOPM_2_20211210703474_0001 Mean Dynamic Topography Hight (coldon 1) for one or more records CS_OFFL_SIR_NOPM_2_20211210703474_0001 Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean D CS_OFFL_SIR_NOPM_2_202112107035201_0001 Mean Sea Sufface (1) Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean D CS_OFFL_SIR_NOPM_2_202112107035200_0001 Mean Sea Sufface (1) Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean D CS_OFFL_SIR_NOPM_2_202112107035200_0001 Mean Sea Sufface (1) Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean D CS_OFFL_SIR_NOPM_2_202112107034289_002112107050500_0001 Mean Sea Sufface (1) Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean D CS_OFFL_SIR_NOPM_2_202112107034289_00211210708284_0001 Mean Sea Sufface (1) Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean D CS_OFFL_SIR_NOPM_2_20211210708289_00211210708289_0011 Mean Sa Sufface (1) Mean Dynamic Topography (1) There is an error with the MSS height (coldon 1) and the Mean D CS_OFFL_SIR_NOPM_2_20211210708289_00211210708289_0001 Mean Dynamic Topograp	S_OFFL_SIR_NOPN_2_20211210T011018_20211210T011252_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
Sec. DPL_SREVENUE_2X2112101033922_0211210103391_0.001 Trapagraphy (1) Trapa	S_OFFL_SIR_NOPN_2_20211210T020530_20211210T020647_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFL_SR_NOPN_2_20211210106240_202112101062806_0001 Meet Dypame Topography (1), Total Geocenito Coest Topography (1), Total Geocenito Coest Topography (2), 202112101074700_202112101075500_0001 There is an error with the MSS height (colution 1) and the Mean Dypame Topography (2), 202112101074700_202112101075500_0001 CS_OFFL_SIR_NOPN_2_2021121010762829_2021121010762824_C001 Mean Sas Surface (1), Mean Dynamic Topography (2), 202112101084002_202112101084002_202112101084002_0001 There is an error with the MSS height (colution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_202112101084002_202112101084002_0001 Mean Sas Surface (1), Mean Dynamic Topography (2), 202112101084002_202112101084002_0001 There is an error with the MSS height (colution 1), and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_202112101084002_20211210108282_0001 Mean Sas Surface (1), Mean Dynamic Topography (2), 202112101084002_20211210108282_0001 Mean Sas Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20211210111416_202112101111532_0001 Mean Sas Surface (1), Mean Dynamic Topography (1), Total Geocentric Coest Topography (1), Total Geocentr	S_OFFL_SIR_NOPN_2_20211210T034502_20211210T034714_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
GS_OFFL_SIR_NOPN_2_202112107052421_002112107052906_0001 Topography (1): Total Geocentric Ocean Tode (FES) Non-Equilibrium Long Parado Topography (solution 1) and the total corrections for one or more Cogona Total Topography (1): Total Geocentric Ocean Total Cogona Total Tore is an error with the MSS height (solution 1) and the total corrections for one or more Cogona Total CS_OFFL_SIR_NOPN_2_202112107062529_0211210705050_0001 Mean Sas Surface (1): Mean Dynamic Topography (1): Total Geocentric Ocean Tode (GC1). Total Geocentric Ocean Tode (GC2). OFFL_SIR_NOPN_2_202112107114026_20211210	S_OFFL_SIR_NOPN_2_20211210T042740_20211210T042918_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_DFPL_SIR_NOPN_2_202112101061682_0001 Topography (1) Topography leight (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202112101074700_202112101070500_C001 Maren Sea Strates (1) Mean Dynamic Tode (GFD), Non-Equilibrium Long Period There is an error with the MSS height (solution 1), the Mean Dynamic Topography (excution 1) and the Idial corrections for one or more Ocean Tide CS_OFFL_SIR_NOPN_2_202112101082822_02112101082824_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_202112101084802_202112101084928_C001 Mean Sa Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), and the Total Geocentric Coean Tare is an error with the MSS height (solution 1) and the Total Geocentric Coean Topography (1) CS_OFFL_SIR_NOPN_2_20211210108492_202112101092842_C001 Mean Sa Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Total Geocentric Coean Tare is an error with the MSS height (solution 1) and the Ideal Corrections for one or more records CS_OFFL_SIR_NOPN_2_20211210111415_20211210111525_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Ideal Corrections for one or more Coean Tide (CFS), Non-Equilibrium Long Period Coean Tide There is an error with the MSS height (solution 1) and the Ideal Corrections for one or more cords	S_OFFL_SIR_NOPN_2_20211210T052421_20211210T052906_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20211210T074700_20211210T075050_C001 Topography (1). Total Geocentric Ocean Tide (CFS). Non-Equilibrium Long Period Ocean Tide Topography (solution 1) and the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the Side Corrections for one or more Topography (solution 1) and the Side Corrections for one or more Topography (solution 1), the Mean Dynamic Topography height for corrections for one or more Topography (solution 1), the Mean Dynamic Topography height (solution 1), the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T082842_0211210T084692_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T082842_0211210T08286_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MS height (solution 1) and the Mean D Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T0111415_20211210T111532_C001 Mean Sea Surface (1), Mean Dynamic Topography (1). Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the MS height (solution 1) and the Mean D Topography (1). Total Geocentric Ocean Tide (GCT). Total Geocentric	S_OFFL_SIR_NOPN_2_20211210T061558_20211210T061833_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20211210106264_0011 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_20211210T084902_00211210T092956_0001 Mean Dynamic Topography (1), Total Geocentric Ocean The Big1t (solution 1) and the Total Geocentric Ocean Tide (GOT), To	S_OFFL_SIR_NOPN_2_20211210T074700_20211210T075050_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20211210T084602_20211210T084602_0001 Topography (1). Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Topography (1) CS_OFFL_SIR_NOPN_2_20211210T092642_20211210T092656_0001 Mean Sea Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean I Topography (1) CS_OFFL_SIR_NOPN_2_20211210T11155_20211210T111532_0001 Mean Sea Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean I Topography (1) CS_OFFL_SIR_NOPN_2_20211210T1115529_0001 Mean Sea Surface (1). Mean Dynamic Topography (1). Total Geocentric Ocean Tide (CGOT, Total Geocentric Ocean Tide (ECS), Non-Equilibrium Long Period Topography (solution 1) and the tidal corrections for one or more records CS_OFFL_SIR_NOPN_2_20211210T115628_20211210T115753_0001 Mean Sea Surface (1). Mean Dynamic Topography (1). Total Geocentric Ocean Tide (CFS), Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20211210T113558_20211210T1133701_0001 Mean Sea Surface (1). Mean Dynamic Topography (1). Total Geocentric Ocean Tide CS_OFFL_SIR_NOPN_2_20211210T1132558_20211210T1133701_0001 Mean Sea Surface (1). Mean Dynamic Topography (1). Total Geocentric Ocean Tide CS_OFFL_SIR_NOPN_2_20211210T115152_20211210T151340_0001 Total Geocentric Ocean Tide (GOT). Total Geocentric Ocean Tide (GOT). Total Geocentric Ocean Tide CS_OFFL_SIR_NOPN_2_20211210T151362_20211210T151340_0	S_OFFL_SIR_NOPN_2_20211210T082829_20211210T082844_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20211210T093610_0211210T093625_C001 Mean Dynamic Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T013550_0211210T11532_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_NOPN_2_20211210T115414_20211210T115559_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Oc	S_OFFL_SIR_NOPN_2_20211210T084802_20211210T084926_C001	Topography (1), Total Geocentric Ocean	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_202112101033510_20211210111532_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_202112101111415_20211210111552_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FS), Non-Equilibrium Long Period Ocean Tide (GS), Total Geocentric Ocean Tide (GS), Non-Equilibrium Long Period Ocean Tide (GS), Non-Equilibrium Long Per	S_OFFL_SIR_NOPN_2_20211210T092642_20211210T092956_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20211210111415_20211210111552_C001 Topography (1) Topography leight (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202112101115414_202112101115559_C001 Mean Sas Surface (1), Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records CS_OFFL_SIR_NOPN_2_202112101115628_202112101115753_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the tidal corrections for one or more records CS_OFFL_SIR_NOPN_2_202112101113558_202112101133701_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the tidal corrections for one or more records CS_OFFL_SIR_NOPN_2_202112101143253_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_202112101143253_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPN_2_202112101143253_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) one or more records CS_OFFL_SIR_NOPN_2_202112101151027_202112101151340_C001 Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (SOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (SOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	S_OFFL_SIR_NOPN_2_20211210T093510_20211210T093625_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20211210T115414_20211210T115559_C001 Topography (1), 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 (2), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- CS_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean E Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean E Topography height (solution 1) for	S_OFFL_SIR_NOPN_2_20211210T111415_20211210T111532_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20211210T115628_20211210T115753_C001 Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (SIR_NOPN_2_20211210T1433558_20211210T143273_C001 Mean Sea Surface (1), Mean Dynamic Topography (a) There is an error with the MSS height (solution 1) and the Mean I Topography (b) and the MSS height (solution 1) and the Mean I Topography (b) and the MSS height (solution 1) and the Mean I Topography (b) and the MSS height (solution 1) and the Mean I Topography (b) and the MSS height (solution 1) and the Mean I Topography (b) and the MSS height (solution 1) and the Mean I Topography (b) and the MSS height (solution 1) and the Mean I Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T142954_20211210T143223_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T151027_20211210T151340_C001 Total Geocentric Ocean Tide (GOT), Total Geocent Tide (GOT), Total Geocent Coean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution 2) and the Mean I Topography (1) CS_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean I Topography (1) CS_OFFL_SIR_NOPN_2_20211210T160902_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic	S_OFFL_SIR_NOPN_2_20211210T115414_20211210T115559_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20211210T143954_20211210T143223_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T142954_20211210T143223_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T151027_20211210T151340_C001 Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T1610902_20211210T161239_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography (1) CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C00	S_OFFL_SIR_NOPN_2_20211210T115628_20211210T115753_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_202112101142954_202112101143223_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T151027_20211210T151340_C001 Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide There is an error with the Total Geocentric Ocean Tide height (solution 2: FES) and the Non-equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T1610902_20211210T161239_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography (1) CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean D Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Dynamic Topography height (solution 1) for one or more records	S_OFFL_SIR_NOPN_2_20211210T133558_20211210T133701_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20211210T151027_20211210T151340_C001 Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide GOT and solution 2: FES) and the Non-equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean D CS_OFFL_SIR_NOPN_2_20211210T1610902_20211210T161239_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean D CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean D CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean D CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean D CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean D CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Dynamic There is an error with the Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165934_20211210T165034_20211210T165425_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for Oc	S_OFFL_SIR_NOPN_2_20211210T142954_20211210T143223_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20211210T161332_20211210T161239_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T160902_20211210T161239_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165934_20211210T165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211210T165934_20211210T165425_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records	S_OFFL_SIR_NOPN_2_20211210T151027_20211210T151340_C001	Total Geocentric Ocean Tide (FES), Non	
CS_OFFL_SIR_NOPN_2_202112101160902_202112101161239_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202112101165034_202112101165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202112101165034_202112101165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202112101165034_202112101165425_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202112101165034_202112101165425_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height (solution 1) for one or more records	S_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_202112101165034_202112101165425_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for or	S_OFFL_SIR_NOPN_2_20211210T160902_20211210T161239_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
	S_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
more records	S_OFFL_SIR_NOPN_2_20211210T165934_20211210T170010_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20211210T175014_20211210T175156_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for c more records	S_OFFL_SIR_NOPN_2_20211210T175014_20211210T175156_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20211210T210612_20211210T210927_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records	S_OFFL_SIR_NOPN_2_20211210T210612_20211210T210927_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20211210T215729_20211210T215817_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for a more records	S_OFFL_SIR_NOPN_2_20211210T215729_20211210T215817_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

CS_OFFL_SIR_NOPN_2_20211210T224510_20211210T224826_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPR_2_20211210T033854_20211210T034016_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20211210T034043_20211210T034502_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T065454_20211210T070457_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T082719_20211210T082829_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20211210T082844_20211210T082857_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20211210T083821_20211210T084610_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T101804_20211210T102835_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T115754_20211210T120525_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T133701_20211210T134226_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T143223_20211210T143452_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T150554_20211210T150650_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T151602_20211210T152256_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T153638_20211210T154453_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20211210T165425_20211210T165934_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T183149_20211210T183844_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T201034_20211210T201806_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20211210T202151_20211210T202342_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20211210T202718_20211210T202905_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors: 2		
Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20211210T035502_20211210T040002_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20211210T185054_20211210T185322_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Number of products with	errors:
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Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20211209T234234_20211210T001219_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T001327_20211210T001552_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T003143_20211210T003846_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T003900_20211210T010316_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T011252_20211210T011447_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

DUCH_SIRE_UPPU_2201101010218_2011210101028_001 Desk Alternet Frage SiRE Size Desk Alternet Frage SiRE Size <th></th> <th></th> <th></th>					
CAL_PHPBPDRM_2_2011011011648_201101101000 and Reckards Calury CRD and Reckards Calury CRD CAL_PHPBPDRM_2_2011011011645_20111010101010 Control Marcine Reging Calury CRD The Control Marcine Reging Calury CRD CAL_PHPBPDRM_2_2011010101645_20111010101000 Control Marcine Reging Calury CRD The Control Marcine Reging Calury CRD CAL_PHPBPDRM_2_2011010101010000 Control Marcine Reging Calury CRD The Control Marcine Reging Calury CRD CAL_PHPBPDRM_2_2011010101010000 CODE Marcine Reging Calury CRD The CODE Marcine Reging Calury CRD CAL_PHPBPDRM_2_2011010101010000 CODE Marcine Reging Calury CRD The CODE Marcine Reging Calury CRD CAL_PHPBPDRM_2_201101010100000 CODE Marcine Reging Calury CRD The CODE Marcine Reging Calury CRD CAL_PHPBPDRM_2_201101010100000 CodE Marcine Reging Calury CRD The CODE Marcine Reging Calury CRD CAL_PHPBPDRM_2_201101010100000 CodE Marcine Reging Calury CRD The CodE Marcine Reging Calury CRD CAL_PHPDRM_2_201101010100000 CodE Marcine Reging Calury CRD The CodE Marcine Reging Calury CRD CAL_PHPDRM_2_2011010101000000 CodE Marcine Reging Calury CRD The CodE Marcine Reging Calury CRD CAL_PHPDRM_2_2011010101000000000 CodE Marcine Reging Calury CRD The CodE Marcine Reging Calury CRD CAL_PHPDRM_2_20110101010000000000 CodE Marcine Reging Calury CRD The CodE Marcine Reging Calury CRD <	CS_OFFL_SIR_NOPM_2_20211210T012145_20211210T012523_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CPL_BR_NOM_2_01112000485_201120005581_0001 pxcBakazzer 0.40%, pcc0 pxcBakzzer 0.40%, pcc0 pxcBakzzer 0.40%, pcc0 CPL_PR_BR_NOM_2_010112000544_001120005584_0001 DCCO Alterate Range 0.40%, pcc0 The CCO Alterate Range of Exclusion Coulty Fage have base and beseries of coulty fage have been and beseries of coulty	CS_OFFL_SIR_NOPM_2_20211210T012608_20211210T014830_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
Backstein Outsig Backstein Outsig Beskstein Outsig Beskstein Outsig 01_00000000_0000_0000_0000_0000_0000	CS_OFFL_SIR_NOPM_2_20211210T014845_20211210T015017_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
 Bestentter Galty Bestentter Galty	CS_OFFL_SIR_NOPM_2_20211210T015244_20211210T015451_C001				
 CE, DPTL, SR, NOTML 2, 3211210722119, 20211210732255, 2021 CE, DPTL, SR, NOTML 2, 3211210732419, 20211210732540, 2021 CE, DPTL, SR, NOTML 2, 3211210732419, 20211210732540, 2021 CE, DPTL, SR, NOTML 2, 3211210732419, 20211210732540, 2021 CE, DPTL, SR, NOTML 2, 32112107325419, 20211210732540, 2021 CE, DPTL, SR, NOTML 2, 32112107325419, 20211210732540, 2021 CE, DPTL, SR, NOTML 2, 322112107305419, 20211210733550, 2021 CE, DPTL, SR, NOTML 2, 32211210730549, 202112107303500, 2021 CE, DPTL, SR, NOTML 2, 32211210730549, 20211210730549, 202	CS_OFFL_SIR_NOPM_2_20211210T020647_20211210T021009_C001				
C2: 0FTL_SRI, NOFM_2 2021121070249	CS_OFFL_SIR_NOPM_2_20211210T021157_20211210T022755_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
Carl, Ser, Vert, Ser,	CS_OFFL_SIR_NOPM_2_20211210T024402_20211210T024516_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CE: OFTL_SIR_NOPM_2_20211210703119_20211210703194_0001 Antester Reage and Backscatter Quality Flags have been Antester Reage and Backscatter Quality Flags have been Antester Reage and Backscatter Quality Call of FL_SIR_NOPM_2_202112107033248_202112107033249_0001 OCOG Attester Reage and Backscatter Quality Flags have been Antester Reage and Backscatter Quality Flags Horison Call, OFTL_SIR_NOPM_2_20211210704020_2001 Queen Antester Reage, SIA, SVM Her Coste Attester Reage and Backscatter Quality Flags have been store or nore records. Call, OFFL_SIR_NOPM_2_2021121010429_2001 COSTA Attester Reage and Backscatter Quality Flags have been store or nore records. Call, OFFL_SIR_NOPM_2_2021121010429_2001 COSTA Attester Reage Additater Classity Call, OFFL_SIR_NOPM_2_2021121010429_20011210100421_0001 COSTA Attester Reage and Backscatter Quality	CS_OFFL_SIR_NOPM_2_20211210T025426_20211210T025853_C001				
C3, OFFL_SIR_NOPM_2_20211210703208_20211210703208_C001 And Badecatter Quality, COOG Animeter Range Quality, COOG Th	CS_OFFL_SIR_NOPM_2_20211210T030118_20211210T031540_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
Displane	CS_OFFL_SIR_NOPM_2_20211210T031720_20211210T032003_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
C8_OFFL_SIR_NOPM_2_20211210T040245_20211210T040002_0001 and Backscatter Ouality CROG S_OFFL_SIR_NOPM_2_20211210T040245_20211210T040425_20211210T040425_20211210T040425_20211210T040425_20211210T040445_2021121	CS_OFFL_SIR_NOPM_2_20211210T033246_20211210T033249_C001				
CS_OFFL_SIR_NOPM_2_202112107040245_20211210704284_C001 and Backscatter Quality COCO Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been and the COCO Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112107050101_202112107051041_20011 COCO Altimeter Range Quality, COCO Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112107051041_2_02112107061461_C001 COCO Altimeter Range SNA, SNH and Backscatter Quality The OCOO Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112107051942_202112107061464_C001 COCO Altimeter Range SNA, SNH and Backscatter Quality The OCOO Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210705	CS_OFFL_SIR_NOPM_2_20211210T035502_20211210T040002_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have bee		
CS_OFFL_SIR_NOPM_2_202112101044019_20211210106405_0001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_202112101044028_202112101056421_C001 Ocean Attimeter Range and Backscatter Quality The OCGO Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101056746_202112101056842_C001 DCGO Attimeter Range Quality. OCCG The OCGO Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101056746_202112101056143_C001 DCGO Attimeter Range Quality. OCCG The OCGO Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210105619_202112101066145_C0011 DCGO Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101061135_202112101061454_C0011 DCGCA Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101061145_202112101061454_C0011 DCGCA Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101061455_02112 DCGCA Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101071254_202112101074326_C0011 DCGCA Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101071254_20211210107	CS_OFFL_SIR_NOPM_2_20211210T040245_20211210T042624_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_NOPM_2_20211210T06428_20211210T069421_001 and Backscatter Quality. COCG Allimeter Range and Backscatter Quality. Flags have been and the CCCG Allimeter Range and Backscatter Quality. Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210T061013_20211210T061413_C001 CCCG Allimeter Range Quality. CCCG Backscatter Quality. CCCG Backscat	CS_OFFL_SIR_NOPM_2_20211210T042919_20211210T043805_C001				
CS_OFFL_SIR_NOPM_2_202112101080746_202112101090442_0001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_202112101051013_202112101051413_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCCOA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101053807_202112101066454_C001 Ocean Altimeter Range Askscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality, COCO GAltimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101061135_202112101061558_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCCOA Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210106145_202112101064449_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101071254_202112101074326_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_2021121010775050_202112101074526_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101075050_202112101076538_C001 OCCGA Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_O	CS_OFFL_SIR_NOPM_2_20211210T044028_20211210T050421_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_NOPM_2_202112101081013_20211210108043_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20211210105307_202112101060454_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Backscatter Quality, OCCG The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101061135_202112101061558_C001 OCGA Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101061945_202112101064449_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101071254_202112101074326_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, Flags have been Altimeter Range and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_202112101075050_202112101075638_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range, SSHA, SWH and Backscatt	CS_OFFL_SIR_NOPM_2_20211210T050746_20211210T050842_C001				
CS_OFFL_SIR_NOPM_2_20211210T063907_20211210T060454_C001 and Backscatter Quality AcCGG Altimeter Range and Backscatter Quality oc OCGG Altimeter Range and Backscatter Quality Flags have been act for one or more records. CS_OFFL_SIR_NOPM_2_20211210T061135_20211210T061559_C001 OCCGG Altimeter Range Quality, OCCG Backscatter Quality The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210T061945_20211210T064449_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, OCCG Altimeter Range, SHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_NOPM_2_20211210T071254_20211210T074326_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Altimeter Range and Backscatter Quality Flags have been at for one or more records. CS_OFFL_SIR_NOPM_2_20211210T075050_20211210T075638_C001 OCCGA Altimeter Range Quality, OCCG Altimeter Range, SHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210T075922_20211210T0760423_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality, Flags have bee	CS_OFFL_SIR_NOPM_2_20211210T051013_20211210T051413_C001				
CS_OFFL_SIR_NOPM_2_202112101081783_202112101081783_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20211210T061945_20211210T064449_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T071254_20211210T074326_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T071254_20211210T074326_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T075050_20211210T075638_C001 Ocean Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T075922_20211210T080423_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T080707_20211210T081559_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T083547_20211210T083639_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality,	CS_OFFL_SIR_NOPM_2_20211210T053907_20211210T060454_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_NOPM_2_20211210T061945_20211210T064449_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T071254_20211210T074326_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T071254_20211210T074326_C001 Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210T075050_20211210T075638_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, COOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, and Backscatter Quality Flags have been altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T080707_20211210T080423_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T080707_20211210T080559_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T083547_20211210T083649_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality The Ocean Al	CS_OFFL_SIR_NOPM_2_20211210T061135_20211210T061558_C001				
CS_OFFL_SIR_NOPM_2_20211210T071254_20211210T074326_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality set for one or more records. CS_OFFL_SIR_NOPM_2_20211210T075050_20211210T075638_C001 OCOG Altimeter Range Quality, OCOG Backscatter Quality The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210T075050_20211210T075638_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20211210T080707_20211210T080423_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatt	CS_OFFL_SIR_NOPM_2_20211210T061945_20211210T064449_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_NOPM_2_20211210T075030_20211210T075038_C001 Backscatter Quality for one or more records. CS_OFFL_SIR_NOPM_2_20211210T075922_20211210T080423_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags hat the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T080707_20211210T081559_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 hat the OCOG Altimeter Range and Backscatter Quality CS_OFFL_SIR_NOPM_2_20211210T080507_20211210T081559_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and	CS_OFFL_SIR_NOPM_2_20211210T071254_20211210T074326_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_NOPM_2_20211210T075922_20211210T080423_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality, OCOG CS_OFFL_SIR_NOPM_2_20211210T083547_20211210T083639_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG CS_OFFL_SIR_NOPM_2_20211210T084926_20211210T090020_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20211210T075050_20211210T075638_C001				
CS_OFFL_SIR_NOPM_2_20211210T080707_20211210T081559_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality and the OCOG Altimeter Range and Backscatter Quality Flags have been ast for one or more records. CS_OFFL_SIR_NOPM_2_20211210T083547_20211210T083639_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, occog Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been and Backscatter Quality, OCOG CS_OFFL_SIR_NOPM_2_20211210T084926_20211210T090020_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality, OCOG	CS_OFFL_SIR_NOPM_2_20211210T075922_20211210T080423_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_NOPM_2_20211210T083547_20211210T083639_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Altimeter Range, SSHA, SWH and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags CS_OFFL_SIR_NOPM_2_20211210T084926_20211210T090020_C001 and Backscatter Quality, OCOG The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_NOPM_2_20211210T080707_20211210T081559_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
CS_OFFL_SIR_NOPM_2_20211210T084926_20211210T090020_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20211210T083547_20211210T083639_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		
Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_NOPM_2_20211210T084926_20211210T090020_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been		

CS_OFFL_SIR_NOPM_2_20211210T090030_20211210T092312_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T092956_20211210T093510_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T093940_20211210T093956_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T094146_20211210T094937_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T095150_20211210T095616_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T101229_20211210T101428_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T101443_20211210T101506_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T102835_20211210T103805_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T104051_20211210T110221_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T110823_20211210T110958_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T111004_20211210T111415_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T111854_20211210T113828_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T113917_20211210T114343_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T121513_20211210T124138_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T124916_20211210T125141_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T130002_20211210T1311117_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T131119_20211210T131231_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T131321_20211210T133027_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T133433_20211210T133558_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T135400_20211210T140327_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T140531_20211210T142036_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T142300_20211210T142755_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T143653_20211210T144918_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T145359_20211210T150554_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T154453_20211210T155951_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T160227_20211210T160710_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_NOPM_2_20211210T161359_20211210T164032_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T170757_20211210T170810_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T171423_20211210T173513_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T173603_20211210T173906_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T174247_20211210T174625_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T174648_20211210T175014_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T175319_20211210T182121_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T185327_20211210T191802_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T192044_20211210T192539_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T192547_20211210T192916_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T193358_20211210T200724_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T201948_20211210T202151_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T205231_20211210T205354_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T210043_20211210T210612_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T211250_20211210T214619_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T215857_20211210T220048_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T221825_20211210T223510_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T224005_20211210T224510_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T225134_20211210T232506_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T232706_20211210T232738_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T232802_20211210T232814_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20211210T234953_20211211T001247_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211210T011018_20211210T011252_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211210T011018_20211210T011252_C001 CS_OFFL_SIR_NOPN_2_20211210T095616_20211210T095719_C001		
	Backscatter Quality OCOG Altimeter Range Quality, OCOG	for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set
CS_OFFL_SIR_NOPN_2_20211210T095616_20211210T095719_C001	Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPN_2_20211210T201807_20211210T201823_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T082429_20211210T082618_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T152717_20211210T152808_C001	o b	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_NOPN_2_20211210T011018_20211210T011252_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T011950_20211210T012113_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T023007_20211210T023038_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T034502_20211210T034714_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T034807_20211210T035035_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T040122_20211210T040245_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T052421_20211210T052906_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T082157_20211210T082302_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T083243_20211210T083405_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T083730_20211210T083821_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T084610_20211210T084718_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for on more records.		
CS_OFFL_SIR_NOPN_2_20211210T110401_20211210T110822_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T115218_20211210T115255_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T115628_20211210T115753_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T133027_20211210T133433_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T142117_20211210T142259_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T142827_20211210T142834_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T143453_20211210T143615_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T144934_20211210T144948_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		
CS_OFFL_SIR_NOPN_2_20211210T144957_20211210T145219_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.		

	Ocean Altimeter Range, SSHA, SWH	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags			
CS_OFFL_SIR_NOPN_2_20211210T151027_20211210T151340_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T151352_20211210T151602_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flag and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T160010_20211210T160227_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T164815_20211210T164939_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T165034_20211210T165425_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T171148_20211210T171423_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T174017_20211210T174246_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T203937_20211210T204143_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T205923_20211210T210043_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T210612_20211210T210927_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T220114_20211210T220234_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T220600_20211210T220732_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T221554_20211210T221824_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPN_2_20211210T223851_20211210T224005_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T001219_20211210T001327_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T010316_20211210T011017_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T012113_20211210T012145_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T022755_20211210T023007_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T032003_20211210T032320_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T033854_20211210T034016_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T034043_20211210T034502_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T034714_20211210T034807_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T035035_20211210T035249_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T060455_20211210T060717_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T061833_20211210T061945_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.			
CS_OFFL_SIR_NOPR_2_20211210T065454_20211210T070457_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.			

	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPR_2_20211210T074326_20211210T074659_C001	Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T075801_20211210T075921_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T083405_20211210T083435_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T083821_20211210T084610_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T084725_20211210T084801_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T093625_20211210T093940_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T094937_20211210T095150_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T101804_20211210T102835_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T111532_20211210T111854_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T115258_20211210T115336_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T115754_20211210T120525_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T120632_20211210T120641_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T125328_20211210T130002_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T131231_20211210T131320_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T133701_20211210T134226_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T134318_20211210T134414_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T134853_20211210T134917_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T135202_20211210T135400_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T143223_20211210T143452_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T150554_20211210T150650_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T151602_20211210T152256_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T153638_20211210T154453_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T161239_20211210T161359_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T165425_20211210T165934_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T170010_20211210T170145_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T170835_20211210T170850_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20211210T173906_20211210T174017_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T175157_20211210T175319_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T183149_20211210T183844_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T184019_20211210T184250_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T193056_20211210T193358_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T200901_20211210T200919_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T201034_20211210T201806_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T201823_20211210T201948_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T202151_20211210T202342_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T210927_20211210T211250_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T220307_20211210T220524_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T220732_20211210T220936_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211210T223510_20211210T223851_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
L2 Quality Flags (1 Hz & 1Hz PLRM)		
Currently, there are several common flags raised in the Level 2 products, w	hich are summarised below.	
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for pro	oducts over sea ice, which is to be expected	l.
Number of products with errors: 190		

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

13

62

142

Number of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	188	188	6	182	0
SIR_NOPR1B	120	120	0	120	0
SIR_NOPN1B	105	105	2	103	0
SIR_NOPM_2	188	188	136	52	0
SIR_NOPR_2	120	120	36	76	8
SIR_NOPN_2	105	105	43	62	0

7.1 QCC Errors

Number	of	000	roporte	with	orrore
Number	σ	QUU	reports	with	errors:

Total number of occurrences of each error											
Product Type RL	OBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_NOPR_2	8	1	8	8	1	8					
						•		•	· ·	· ·	· ·

Test Description Key:				
Abbreviation	Test name	Details		
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7 - NetCDF		
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 - NetCDF		
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6		

RL

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7.2 QCC Warnings

Number of QCC reports with warnings

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC
SIR NOPM1B	182	0	0	0	0	0	0
SIR NOPM 2	0	0	35	37	0	41	0
SIR NOPN1B	103	0	0	0	0	0	0
SIR NOPN 2	0	0	7	32	7	23	24
SIR_NOPR1B	117	0	0	0	0	0	0
SIR_NOPR_2	0	8	38	49	1	30	19
Product Type	RBSZOPOEPNCDF	RMSSGHOPONCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNC	DIRPEPOPFDSARNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	37	1	0	25	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	16	0	0	0	0	22	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	11	0	1	0	50	0	56
	·	·	·				
Product Type	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	19	0	0	8	28	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	31	0	0	25	14	51	50
SIR_NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	0	0	47	0	2	64	37

Product Type	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_NOPM1B	0	0	0	0	1	0	0
SIR_NOPM_2	5	33	0	3	1	0	0
SIR_NOPN1B	0	0	0	0	0	0	43
SIR_NOPN_2	27	30	28	11	0	1	0
SIR_NOPR1B	0	0	0	0	1	0	120
SIR_NOPR_2	11	41	51	2	0	11	0

Test Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only			
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPFDPLRM	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RMSSGHOPONCDF	RangeMSSGeoidHeightOPOceanNetCDF	The MSS/geoid height should be between -106000mm and 88000mm (or missing) for surface type = ocean			
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean			
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDPLRMSINN	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_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			

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0