

QA4EO Daily Report for NOP data:

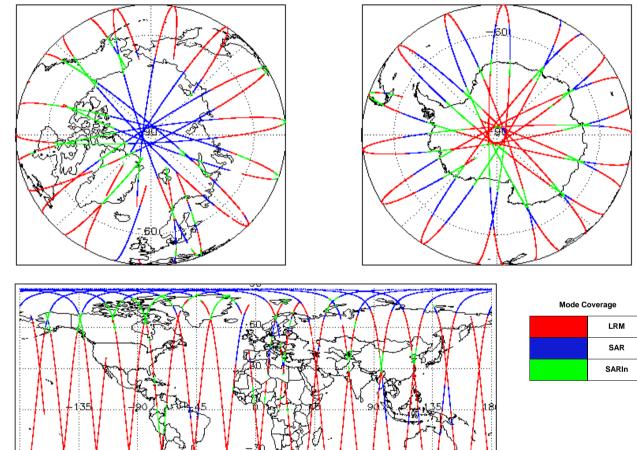
18/10/2021

onert Breduction.	19-Oct-2021	Check	L1 & L2
Report Production:	19-Oct-2021	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	Cruce Set Occor Brasses	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
Data Used:	L1B & L2 Science Data	Product Header Analysis	Nominal
	· · · · · · · · · · · · · · · · · · ·	Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2

1. Overview

Mission / Instrument News			
17-Oct-2021	None		
18-Oct-2021	None		
19-Oct-2021	Nothing planned		





3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

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:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4.6 L1B Waveform Group Data Check

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

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

25

Number of products with errors:

CS_OFFL_SIR_NOPMIB_20211018T030235_20211018T03460_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPMIB_20211018T045242_20211018T05451_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPMIB_20211018T058280_20211018T058300_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPMIB_20211018T1630330_20211018T165227_C0011Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPMIB_20211018T184034_20211018T18030_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPMIB_20211018T18436_20211018T180286_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPMIB_20211018T032856_2001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPNIB_20211018T032856_2001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPNIB_20211018T032552_20011018T032558_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPNIB_20211018T1532_20211018T03555_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPNIB_20211018T1532_20211018T1535_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPNIB_20211018T15320_2011018T1355_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPNIB_20211018T16421_20211018T04292_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPRIB_20211018T16431_20211018T04292_C001	Product	Test Failed	Description
CS_OFFL_SR_NOPM1B_20211018T052821_20211018T052821_20211018T05284_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPM1B_20211018T053804_20211018T165227_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPM1B_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T163402_20211018T1032645_20211018T032645_20211018T032645_20211018T032645_20211018T032645_20211018T032645_20211018T032658_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPN1B_20211018T032645_20211018T032658_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPN1B_20211018T052450_20211018T032658_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPN1B_20211018T070407_20211018T070407_20211018T070407_20211018T052450_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPN1B_20211018T15322_20211018T133755_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPN1B_20211018T13364_20211018T133755_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPN1B_20211018T16540_20211018T133755_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPN1B_20211018T16540_20211018T13456_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SR_NOPR1B_20211018T16540_20211018T143456_C001Loss of EchoThe tracking echo is missing for one or more	CS_OFFL_SIR_NOPM1B_20211018T030235_20211018T031606_C001	Loss of Echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_NOPR1B_20211018T083927_20211018T084421_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T115716_20211018T120513_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T142058_20211018T142259_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T143434_20211018T142259_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T143434_20211018T14250_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T172351_20211018T172530_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T201320_20211018T20132_02011018T20132_001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T215753_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T20132_02011018T20153_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T215753_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_NOPR1B_20211018T042419_20211018T042922_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211018T115716_20211018T120513_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T142058_20211018T142259_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T143434_20211018T143847_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T172351_20211018T172530_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T201320_20211018T201931_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T201320_20211018T201931_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T21503_20211018T201931_C001Loss of EchoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_NOPR1B_20211018T21503_20211018T215753_C001Loss of EchoThe tracking echo is missing for one or more records	CS_OFFL_SIR_NOPR1B_20211018T074512_20211018T074700_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211018T142058_20211018T142259_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPR1B_20211018T143434_20211018T143847_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPR1B_20211018T172351_20211018T172530_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPR1B_20211018T201320_20211018T201931_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPR1B_20211018T20132_20211018T201931_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPR1B_20211018T21503_20211018T215753_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_NOPR1B_20211018T083927_20211018T084421_C001	Loss of Echo	The tracking echo is missing for one or more records
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CS_OFFL_SIR_NOPR1B_20211018T201320_20211018T201931_C001 Loss of Echo The tracking echo is missing for one or more records CS_OFFL_SIR_NOPR1B_20211018T215013_20211018T215753_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_NOPR1B_20211018T143434_20211018T143847_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211018T215013_20211018T215753_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_NOPR1B_20211018T172351_20211018T172530_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_NOPR1B_20211018T201320_20211018T201931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20211018T215828_20211018T215913_C001 Loss of Echo The tracking echo is missing for one or more records	CS_OFFL_SIR_NOPR1B_20211018T215013_20211018T215753_C001	Loss of Echo	The tracking echo is missing for one or more records
	CS_OFFL_SIR_NOPR1B_20211018T215828_20211018T215913_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). Number of products with errors: 0

5.2 L2 Product Header Analysis

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

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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 Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.

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

> 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.

CS_OFFL_SIR_NOPM_2_20211018T0450452_20211018T0450747_C001 Mean Sea Surface (1), Total Geocentric Coean Tide (EGOT) Total Geocentric Coean Tide (GOT) Total Geocentric Coean Tide (GOT) Total Geocentric Coean Tide (SOT) Total (SOT) Total Geocentric Coean Tide (SOT) Total Geocoentric Coean Tide (SOT) Total Ge	records (solution 1), the Total 2: FES) and the Non- records height for one or the Mean Dynamic the Mean Dyn
CS_OFFL_SIR_NOPM_2_20211018T134540_20211018T140819_C001 Geocentric Ocean Tide (CGT), Total Geocentric Ocean Tide (CGD), Total	2: FES) and the Non- records height for one or the Mean Dynamic las Mean Dynamic ne or more records the Mean Dynamic las the Mean Dynamic las the Mean Dynamic las the Mean Dynamic las the Mean Dynamic las the Mean Dynamic las (solution 1), the Total -Equilibrium Long
CS_OFFL_SIR_NOPM_2_202110181171225_202110181171225_202110181172235_2001 Invest in prography (1) more records CS_OFFL_SIR_NOPM_2_202110181720225_2021101817010925_2021101817010925_2021101817010925_2021101817010925_2021101817010925_2021101817010925_2021101817010925_2021101817011903_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (COV), Total Geocentric Ocean Tide (SOUNCIN 1) and Topography (1) CS_OFFL_SIR_NOPN_2_20211018T034543_20211018T035041_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography (1) CS_OFFL_SIR_NOPN_2_20211018T052450_20211018T035258_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FS), Nor. Equilibrium Long Tide (COV) There is an error with the MSS height (solution 1) and Topography (1) </td <td>the Mean Dynamic Is Mean Dynamic ne or more records the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic Is (solution 1), the Total -Equilibrium Long Mean Dynamic ric Ocean Tide height</td>	the Mean Dynamic Is Mean Dynamic ne or more records the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic Is (solution 1), the Total -Equilibrium Long Mean Dynamic ric Ocean Tide height
CS_OFFL_SIR_NOPN_2_20211018120225_202110181202235_2001 Topography (1) Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T010925_20211018T011042_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GC), FFL_SIR_NOPN_2_20211018T034543_20211018T035041_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more record (GC), OFFL_SIR_NOPN_2_20211018T034543_20211018T035041_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T052545_0211018T052558_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GO) There is an error with the MSS height (solution 1) and Topography height (solution 1) and the orgen rapic records CS_OFFL_SIR_NOPN_2_20211018T07646	Is the Mean Dynamic Is Mean Dynamic ne or more records the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic Is (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide height
CS_OFFL_SIR_NOPN_2_202110181010425_0021 Topography (1) Topography (1) Topography (1) Topography (1) Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T01551_20211018T01903_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the tidal corrections for on CS_OFFL_SIR_NOPN_2_20211018T025023_20211018T025258_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the tidal corrections for on CS_OFFL_SIR_NOPN_2_20211018T025455_20211018T030030_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and top graphy (1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T034543_20211018T036041_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T042922_20211018T042303_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T052558_C001 Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and top graphy (1) There is an error with the MSS height (solution 1) and top graphy (1) CS_OFFL_SIR_NOPN_2_20211018T052558_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211018T07692_C001 Mean Dynamic Topography (1) There is an error with the	Is Mean Dynamic ne or more records the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic Is the Mean Dynamic (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide heigh
CS_OFFL_SIR_NOPN_2_20211018T011551_20211018T011903_C001 Topography (1). Total Geocentric Ocean Tide There is an error with the MSS height (solution 1) and the tidal corrections for or topography (solution 1) and the tidal correction coens to the tidae correction coens	ne or more records the Mean Dynamic is the Mean Dynamic is the Mean Dynamic is the Mean Dynamic is (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide height
CS_OFFL_SIR_NOPN_2_202110181023023_202110181023023_202110181023023_20211018103030_C001 Topography (1) Topography (epidt (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T034543_20211018T030030_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more record There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T034543_20211018T035041_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T042922_20211018T043203_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T052450_20211018T052558_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_20211018T052856_20211018T060236_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211018T070407_20211018T071002_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1), the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPN_2_20211018T0780422_20211018T075922_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solutio	Is the Mean Dynamic is the Mean Dynamic is the Mean Dynamic is (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide height
CS_OFFL_SIR_NOPN_2_202110181023435_20211018103003_C001Topography (1)Topography height (solution 1) for one or more recordCS_OFFL_SIR_NOPN_2_20211018T034543_20211018T035041_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more recordCS_OFFL_SIR_NOPN_2_20211018T042922_20211018T043203_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more recordCS_OFFL_SIR_NOPN_2_20211018T052450_20211018T052558_C001Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (solution 2): FES) and the Non- Period Ocean Tide (solution 1) and the Total Geocentric Cocan Tide (solution 1) and the Total Geocentric Ocean Tide (GOT)CS_OFFL_SIR_NOPN_2_20211018T070407_20211018T075922_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1), the Topography height (solution 1) and the Total Geocentric tolution 1) and the Total Geocentric tolution 1) and the Total Geocentric tolution 1). There is an error with the MSS height (solution 1) and the Topography height (solution 1) and the Total Geocentric tolution 1). There is an error with the MSS height (solution 1) and the Total Geocentric tolution 1) and the Total Geocentric tolution 1). There is an error with the MSS height (solution 1) and topography height (solution 1) and the Total Geocentric tolution 1). There is an error with the MSS height (solution 1) and topography height (solution 1) and the Total Geocentric tolution 1). There is an error with the MSS height (solution 1) and topography (1)CS_OFFL_SI	Is the Mean Dynamic is the Mean Dynamic is (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide heigh
CS_OFFL_SIR_NOPN_2_202110181034343_202110181033041_C001Topography (1)Topography height (solution 1) for one or more recordCS_OFFL_SIR_NOPN_2_20211018T042922_20211018T043203_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more recordCS_OFFL_SIR_NOPN_2_20211018T052450_20211018T052558_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more recordCS_OFFL_SIR_NOPN_2_20211018T052856_20211018T060236_C001Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide (solution 1) the Topography height (solution 1), the Topography height (solution 1) the Topography (1), Total Geocentric Ocean Tide (GOT)There is an error with the MSS height (solution 1), the Topography height (solution 1), the Topography height (solution 1) and Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211018T075656_20211018T075922_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211018T075656_20211018T075922_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211	Is the Mean Dynamic Is (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide heigh
CS_OFFL_SIR_NOPN_2_202110181042922_202110181043203_C001Topography (1)Topography height (solution 1) for one or more recordCS_OFFL_SIR_NOPN_2_20211018T052450_20211018T052558_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 2) and topography height (solution 1) and topography (1), Total Geocentric Ocean Tide (FES), Non- Period Ocean Tide (solution 1) and the Total Geocentric topography (1), Total Geocentric Ocean Tide (GOT)There is an error with the MSS height (solution 1), the Topography height (solution 1) and the Total Geocentric (solution 1) and topography (1)CS_OFFL_SIR_NOPN_2_20211018T0750566_20211018T075922_C001Mean Sea Surface (1), Mean Dynamic Topography (1)CS_OFFL_SIR_NOPN_2_20211018T084421_20211018T084825_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211018T092627_20211018T092809_C001Mean Sea Surface (1), Mean Dynamic Topography (1)CS_OFFL_SIR_NOPN_2_20211018T110637_20211018T111007_C001Mean Sea Surface (1), Mea	Is the Mean Dynamic Is (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide heigh
CS_OFFL_SIR_NOPN_2_202110181052450_202110181052358_C001Topography (1)Topography leight (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211018T055856_20211018T060236_C001Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1) and the Total Geocentric Coentric Ocean Tide (solution 1) and the Total Geocentric (solution 1) and the Total Geocentric Topography (1), Total Geocentric Ocean Tide (solution 1) and the Total Geocentric (solution 1) Gone or more recordsCS_OFFL_SIR_NOPN_2_20211018T075656_20211018T075922_C001Mean Dynamic Topography (1)There is an error with the Mesn Dynamic Topography height (solution 1) and the Total Geocentric (solution 1) Gone or more recordsCS_OFFL_SIR_NOPN_2_20211018T075656_20211018T075922_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211018T084421_20211018T084825_C001Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more recordsCS_OFFL_SIR_NOPN_2_20211018T092627_20211018T092809_C001Mean Dynamic Topography (1)There is an error with the Mean Dynamic Topography more recordsCS_OFFL_SIR_NOPN_2_20211018T110637_20211018T111007_C001Mean Sea Surface (1), Mean Dynamic Topography (1)There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more records	ls (solution 1), the Tota -Equilibrium Long Mean Dynamic ric Ocean Tide height
CS_OFFL_SIR_NOPN_2_20211018T055856_20211018T060236_C001 Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide Geocentric Ocean Tide (solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide CS_OFFL_SIR_NOPN_2_20211018T070407_20211018T071002_C001 There is an error with the MSS height (solution 1), the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPN_2_20211018T075656_20211018T075922_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (SOUTION 1: GOT) for one or more records CS_OFFL_SIR_NOPN_2_20211018T075656_20211018T075922_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Oxean Tide (SOUTION 1) for one or more records CS_OFFL_SIR_NOPN_2_20211018T084421_20211018T084825_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211018T092627_20211018T092809_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20211018T110637_20211018T111007_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more records	-Equilibrium Long Mean Dynamic ric Ocean Tide height
CS_OFFL_SIR_NOPN_2_20211018T070407_20211018T071002_C001 Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric (solution 1: GOT) for one or more records CS_OFFL_SIR_NOPN_2_20211018T075656_20211018T075922_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20211018T084421_20211018T084825_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_20211018T092627_20211018T092809_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records CS_OFFL_SIR_NOPN_2_20211018T10637_20211018T111007_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography more records	ric Ocean Tide height
CS_OFFL_SIR_NOPN_2_202110181073636_202110181073922_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_202110181073636_202110181073922_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_202110181092627_202110181092809_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records CS_OFFL_SIR_NOPN_2_202110181092627_202110181092809_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records CS_OFFL_SIR_NOPN_2_202110181110637_202110181111007_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more record	
CS_OFFL_SIR_NOPN_2_202110181084421_202110181084825_C001 Topography (1) Topography height (solution 1) for one or more record CS_OFFL_SIR_NOPN_2_202110181092627_202110181092809_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (more records CS_OFFL_SIR_NOPN_2_20211018110637_202110181111007_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	height for one or
CS_OFFL_SIR_NOPN_2_20211018T110637_20211018T111007_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) more records There is an error with the MSS height (solution 1) and Topography (1)	
Topography (1) Topography height (solution 1) for one or more record	height for one or
CS_OFFL_SIR_NOPN_2_20211018T124549_20211018T124910_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more record	
CS_OFFL_SIR_NOPN_2_20211018T125424_20211018T125548_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	height for one or
CS_OFFL_SIR_NOPN_2_20211018T133614_20211018T133755_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more record	
CS_OFFL_SIR_NOPN_2_20211018T143324_20211018T143434_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	height for one or
CS_OFFL_SIR_NOPN_2_20211018T161026_20211018T161222_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more record	
CS_OFFL_SIR_NOPN_2_20211018T165401_20211018T165618_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and Topography height (solution 1) for one or more record	
CS_OFFL_SIR_NOPN_2_20211018T182944_20211018T183456_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide Topography (solution 1) and the tidal corrections for or	
CS_OFFL_SIR_NOPN_2_20211018T191938_20211018T192237_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	height for one or
CS_OFFL_SIR_NOPN_2_20211018T192906_20211018T193154_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	height for one or
CS_OFFL_SIR_NOPN_2_20211018T200944_20211018T201320_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	height for one or
CS_OFFL_SIR_NOPN_2_20211018T215753_20211018T215828_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	height for one or
CS_OFFL_SIR_NOPN_2_20211018T215943_20211018T220100_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	hoight for one or
CS_OFFL_SIR_NOPN_2_20211018T232549_20211018T232715_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography more records	neight for one of
CS_OFFL_SIR_NOPR_2_20211018T042419_20211018T042922_C001 Mean Sea Surface (1) There is an error with the MSS height (solution 1) for o	-

CS_OFFL_SIR_NOPR_2_20211018T051818_20211018T052114_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_20211018T052114_20211018T052450_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_20211018T065748_20211018T070407_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_20211018T083927_20211018T084421_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_20211018T101742_20211018T102620_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_20211018T115716_20211018T120513_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_20211018T133756_20211018T134533_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_20211018T151703_20211018T152415_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_20211018T163148_20211018T163401_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_20211018T165618_20211018T165830_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_20211018T165830_20211018T170329_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_20211018T183456_20211018T184213_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_20211018T201320_20211018T201931_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_20211018T201931_20211018T202225_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the Mean Dynamic Topography (solution 1) and the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20211018T215013_20211018T215753_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

81

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20211017T234429_20211018T001854_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_20211018T001929_20211018T001946_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_20211018T002858_20211018T003107_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_20211018T004918_20211018T010519_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_20211018T011042_20211018T011550_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_20211018T012249_20211018T015806_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_20211018T020829_20211018T021011_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_20211018T022027_20211018T022500_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_20211018T022544_20211018T024324_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_20211018T025258_20211018T025455_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_20211018T030235_20211018T031606_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_20211018T032355_20211018T033626_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_20211018T035041_20211018T040835_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_20211018T041012_20211018T042418_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_20211018T043508_20211018T043908_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_20211018T044137_20211018T045607_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_20211018T045824_20211018T050747_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_20211018T052821_20211018T054514_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_20211018T054659_20211018T054712_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_20211018T055300_20211018T055856_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_20211018T060236_20211018T060514_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_20211018T061007_20211018T061811_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_20211018T062124_20211018T063536_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_20211018T071002_20211018T074512_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_20211018T075125_20211018T075655_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_20211018T080136_20211018T082441_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_20211018T085700_20211018T092341_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_20211018T093057_20211018T093542_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_20211018T094028_20211018T100715_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_20211018T101500_20211018T101741_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_20211018T103026_20211018T110155_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_20211018T111007_20211018T111537_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_20211018T111941_20211018T112325_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_20211018T115427_20211018T115715_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_20211018T120915_20211018T124213_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_20211018T124910_20211018T125423_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_20211018T125952_20211018T131603_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_20211018T134540_20211018T140819_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_20211018T140822_20211018T142058_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_20211018T142452_20211018T142911_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_20211018T142929_20211018T143324_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_20211018T143847_20211018T151204_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_20211018T151308_20211018T151554_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_20211018T152557_20211018T153848_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_20211018T154330_20211018T154455_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_20211018T154457_20211018T154716_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_20211018T154828_20211018T160018_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_20211018T160253_20211018T160810_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_20211018T161843_20211018T163148_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_20211018T163402_20211018T165226_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_20211018T171325_20211018T172351_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_20211018T172530_20211018T173904_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_20211018T174220_20211018T174722_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_20211018T174747_20211018T174901_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_20211018T180334_20211018T180800_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_20211018T181436_20211018T181740_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_20211018T181903_20211018T182613_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_20211018T182735_20211018T182943_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_20211018T184910_20211018T184935_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_20211018T185454_20211018T185655_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_20211018T185752_20211018T191750_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_20211018T192237_20211018T192640_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_20211018T193409_20211018T200735_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_20211018T203451_20211018T205704_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_20211018T210028_20211018T210555_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_20211018T211318_20211018T214518_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_20211018T215913_20211018T215942_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_20211018T220101_20211018T220120_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_20211018T220832_20211018T220912_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_20211018T221027_20211018T222954_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_20211018T223220_20211018T223626_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_20211018T224031_20211018T224834_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_20211018T225412_20211018T232548_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_20211018T233814_20211018T234008_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_20211018T142259_20211018T142452_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_20211018T171007_20211018T171324_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_20211018T200735_20211018T200857_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_20211018T205914_20211018T210028_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_20211018T223906_20211018T224030_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20211018T143434_20211018T143847_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_20211018T234312_20211018T234405_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20211018T003542_20211018T003611_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_20211018T003647_20211018T003656_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_20211018T004725_20211018T004918_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_20211018T010925_20211018T011042_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_20211018T011551_20211018T011903_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	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_NOPN_2_20211018T025023_20211018T025258_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20211018T025455_20211018T030030_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_20211018T034543_20211018T035041_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_20211018T042922_20211018T043203_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_20211018T052450_20211018T052558_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_20211018T054712_20211018T055300_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_20211018T055856_20211018T060236_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_20211018T070407_20211018T071002_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_20211018T074700_20211018T074847_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_20211018T082705_20211018T082844_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_20211018T084421_20211018T084825_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_20211018T092627_20211018T092809_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_20211018T093655_20211018T093818_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_20211018T102621_20211018T103026_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_20211018T113450_20211018T113605_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_20211018T120513_20211018T120707_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_20211018T120836_20211018T120914_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_20211018T124549_20211018T124910_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_20211018T131603_20211018T131929_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_20211018T133614_20211018T133755_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_20211018T143324_20211018T143434_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_20211018T160115_20211018T160253_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_20211018T165401_20211018T165618_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_20211018T171007_20211018T171324_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_20211018T175658_20211018T175757_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_20211018T180046_20211018T180333_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_20211018T180800_20211018T181302_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_20211018T182613_20211018T182653_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_20211018T182944_20211018T183456_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_20211018T185046_20211018T185431_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_20211018T191938_20211018T192237_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_20211018T192906_20211018T193154_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_20211018T200735_20211018T200857_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_20211018T200944_20211018T201320_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_20211018T203230_20211018T203331_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_20211018T205914_20211018T210028_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_20211018T214518_20211018T215013_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_20211018T215943_20211018T220100_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_20211018T223906_20211018T224030_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_20211018T224835_20211018T224946_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_20211018T232549_20211018T232715_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_20211018T232811_20211018T232943_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_20211018T234149_20211018T234311_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_20211018T235925_20211019T000041_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_20211018T003243_20211018T003537_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_20211018T003752_20211018T004011_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_20211018T010519_20211018T010925_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_20211018T011903_20211018T012249_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_20211018T024324_20211018T025023_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_20211018T030030_20211018T030235_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_20211018T033832_20211018T033950_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_20211018T042419_20211018T042922_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	
CS_OFFL_SIR_NOPR_2_20211018T051818_20211018T052114_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_20211018T052114_20211018T052450_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_20211018T052817_20211018T052821_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_20211018T063536_20211018T064346_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_20211018T065748_20211018T070407_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_20211018T083518_20211018T083737_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_20211018T083927_20211018T084421_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_20211018T092341_20211018T092627_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_20211018T101336_20211018T101500_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_20211018T101742_20211018T102620_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_20211018T110155_20211018T110637_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_20211018T111654_20211018T111941_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_20211018T112325_20211018T112635_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_20211018T115006_20211018T115314_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_20211018T115716_20211018T120513_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_20211018T124213_20211018T124549_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_20211018T125548_20211018T125951_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_20211018T133455_20211018T133614_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_20211018T133756_20211018T134533_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_20211018T143434_20211018T143847_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_20211018T151703_20211018T152415_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_20211018T161222_20211018T161843_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_20211018T163148_20211018T163401_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_20211018T165618_20211018T165830_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_20211018T165830_20211018T170329_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_20211018T175757_20211018T175845_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_20211018T183456_20211018T184213_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_20211018T185655_20211018T185752_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_20211018T193154_20211018T193409_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_20211018T201320_20211018T201931_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_20211018T211047_20211018T211318_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_20211018T215013_20211018T215753_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_20211018T215828_20211018T215913_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_20211018T220120_20211018T220226_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_20211018T223626_20211018T223906_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_20211018T224946_20211018T225411_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_20211018T232715_20211018T232811_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_20211018T234103_20211018T234148_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.				
L2 Quality Flags (1 Hz & 1Hz PLRM)						
Currently, there are several common flags raised in the Level 2 products, which are summarised below.						
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.						
Number of products with errors: 161						
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 or	cean/ land boundaries, but this is expected.					

Number of products with errors:

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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.

67

130

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	168	168	1	167	0
SIR_NOPR1B	85	85	0	85	0
SIR_NOPN1B	101	101	3	98	0
SIR_NOPM_2	168	168	119	49	0
SIR_NOPR_2	85	85	19	65	1
SIR_NOPN_2	101	101	42	59	0

7.1 QCC Errors

Number of QCC reports											
Total number of occurrences of each error											
Product Type RLOBOP	NCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_NOPR_2 1		1	1	1							
									·		

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

7.2 QCC Warnings

mber of QCC reports with warnings 1689 Total number of occurrences of each warning							
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
SIR_NOPM1B	167	0	0	0	0	0	0
SIR_NOPM_2	0	0	39	35	2	39	0
SIR_NOPN1B	96	0	0	0	0	0	0
SIR_NOPN_2	0	0	11	29	4	26	31
SIR_NOPR1B	82	0	0	0	0	0	0
SIR_NOPR_2	0	1	39	39	2	36	30
	•	•		•			
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCE	RPEPOPFDPLRMSINNCDI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	31	1	34	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	19	0	0	0	25	0	32
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	17	0	0	45	0	51	0
			1		i	i	
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	26	0	0	5	29	0	2
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	24	19	43	48	30
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	43	0	3	60	45	12
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF		SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	•
SIR_NOPM1B	0	0	0	0	0	0	
SIR_NOPM_2	34	0	3	0	0	0	
SIR_NOPN1B	0	0	0	0	47	0	
SIR_NOPN_2	29	27	12	0	0	0	
SIR_NOPR1B	0	0	0	0	85	7	
SIR_NOPR_2	39	45	5	4	0	0	

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

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0