

QA4EO Daily Report for NOP data:

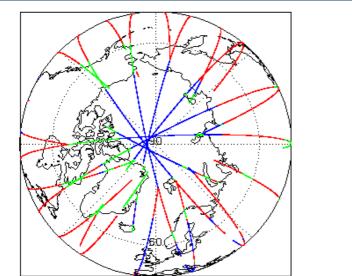
<u>07/09/2020</u>

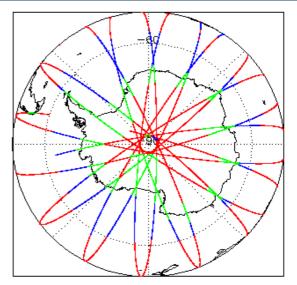
In ant Draduation.	00.0 0000	Check	L1 & L2
Report Production:	08-Sep-2020	Server check: science-pds.cryosat.esa.int	Nominal
Processor Used:	CriveCat Ocean Draassar	Server check: calval-pds.cryosat.esa.int	Nominal
Processor Usea:	CryoSat Ocean Processor	Product Software Check	Nominal
Data Used:	Near Real Time Ocean Products (NOP)	Product Format Check	Nominal
	L1B & L2 Science Data	Product Header Analysis	Nominal
		Auxiliary Data File Usage Check	Nominal
		Auxiliary Correction Error Check	See Section 5.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5
		Measurement Quality Flag Check	See Section 5.6
		Ocean Retracking Quality Check	See Section 5.7
		QCC Error/ Warning Check	See Section 7.1 and 7.2

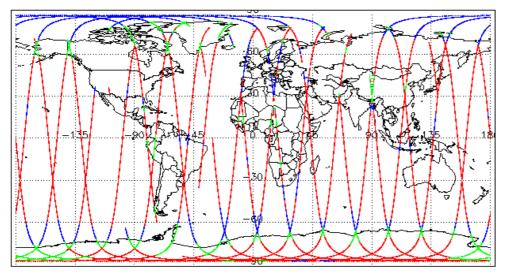
1. Overview

Mission / Instrument News	
06-Sep-2020	None
07-Sep-2020	None
08-Sep-2020	Nothing planned











LRM
SAR
SARIn

3. Instrument Configuration

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

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

4. NOP Level 1B Data Quality Check

4.1 L1B Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a 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 11b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the 11b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

Dynamic Atmospheric Correction: The DAC is missing in all products because the auxiliary files required are not available in time for processing. This known and expected behaviour.
Number of products with errors:
0

4.4 L1B Auxiliary Correction Error Check

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

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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200907T020326_20200907T021719_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20200907T034115_20200907T034901_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_NOPM1B_20200907T130609_20200907T132212_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

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

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3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20200907T095124_20200907T095554_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200907T101805_20200907T105255_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200907T115634_20200907T121059_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20200907T134543_20200907T135600_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200907T002204_20200907T002402_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200907T005752_20200907T010402_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200907T114806_20200907T114906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200907T132606_20200907T132802_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200907T223631_20200907T224148_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20200907T232728_20200907T233045_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200907T043055_20200907T043344_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200907T063929_20200907T064128_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200907T092754_20200907T093159_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200907T124430_20200907T125003_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200907T192149_20200907T192624_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20200907T215149_20200907T215915_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:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

0

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

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

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

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

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

Number of products with errors:

 Const. Gin Nervik 2 2000007102003 (200007100110 COD) Const. Gin Nervik 2 2000007102003 (2000071001000) Const. Gin Nervik 2 2000007102004 (2000071001000) Const. Gin Nervik 2 2000007103000 (2000071001000) Const. Gin Nervik 2 2000007103000 (2000071001000) Const. Gin Nervik 2 2000007103000 (200007103000) Const. Gin Nervik 2 20000071103000 (2000007103000) Const. Gin Nervik 2 20000	Product	Test Failed	Description
CAUTL_DITL_OPT_AL_28000007706715_0000007706981_00001 Heas Sea dances 11, March and Tappapary (March 2000007706695_0000007706870_00001 Heas Agenetic Tappapary (March 2000007706870_0000007706870_0000000000000			There is an error with the Mean Dynamic Topography height for one or
Display (CPUL, USA, Display (CPUL, Display (CPUL, Display), CPUL, Display (CPUL, Display), CPUL, Display), CPUL, Display, CPU		Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
cb:SH:USM: 2 0000007110322 2000007110322 200007110322 200007110322 200007110322 2000071032 memory time for yourse regregative (i) cb:SH:USM: 2 000000710322 200007110322 200007110322 20000710222 20000710222 200000710222 20000710222 20000710222 20000710222 20000710222 2000071			There is an error with the Mean Dynamic Topography height for one or
Co. OffL. Sin NorM. 2. 20000071105282. 20000971105282. 20000971105282. 2000097100174. 20000971105282. 2000097100174. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 200009710012. 2000097110002. 200009711002. 20000711002		Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic
CB_CPTL_SPI_VOPK_2_2000007100142_2000007100142_0000 There is an unit in MSS instruction 1 and the Name Drawsit Tecoparty high tools in the out and monomality is an analysis of the out and monomality is and monomality is an analysis of the out and monomality is an analysis is and monomality is and monoma			There is an error with the Mean Dynamic Topography height for one or
CS OFFL BIN NOPN 2 800000710002 0001 International process of the second se		Mean Sea Surface (1), Mean Dynamic	
CS OFFL_SIN_NOPN_2_0200007115208_0200007115208_02000 Transparphy (1) Transparphy (1) Transparphy (1) CS_OFFL_SIN_NOPN_2_0200007115208_0200007105208_0001 Transparphy (1) Transparphy (1) Transparphy (1) Transparphy (1) CS_OFFL_SIN_NOPN_2_0200007105208_0200007105208_0001 Transparphy (1) Transpar			
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CB: OFFL_SIN_NOPN_2_2020007705141_202000071051788_0001 Image spin (1) and the spin methods and the spin spin (1) and the spin (1) and the spin spin (1) a			
Display (1) Toppage (1)			
DS_GER_SER_NOPN_2_20000077000002_00000 Treggraphy (b) Tred Geometry Company There is an error with the Mass Treggraphy (b) there is an erore with the Mass Treggraphy (b) there is an error with the Mass T	CS_OFFL_SIR_NOPN_2_202009071051641_202009071051728_C001	Topography (1)	
Corp.FTL_SH_UDER_2_8000007170874_200000071707453_00000 Inter Records CS_OFFL_SH_UDER_2_80000071707745_00000071707453_00000 Mean Sa Saface (1) Mean Dynamic Topograph (1) CS_OFFL_SH_UDER_2_8000007170774_00000071707453_00000 Mean Sa Saface (1) Mean Dynamic Topograph (1) CS_OFFL_SH_UDER_2_80000071107475_0000071707253_00000 Mean Sa Saface (1) Mean Dynamic Topograph (1) CS_OFFL_SH_UDER_2_8000007110757_000007110050_00007110050_0000 Mean Sa Saface (1) Mean Dynamic Topograph (1) CS_OFFL_SH_UDER_2_8000007110050_000007110050_0000 Mean Sa Saface (1) Mean Dynamic Topograph (1) CS_OFFL_SH_UDER_2_8000007110050_00007110050_0000 Mean Dynamic Topograph (1) CS_OFFL_SH_UDER_2_8000007110050_00007110250_000007112250_00007112250_000007112505_0000007112505_0000007112505_0000007112505_0000007112505_0000007112505_0000007112505_0000007112505_0000007112505_0000007112505_0000007112505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_00000071152505_0000071152505_00000071152505_00000071152505_00000071152505_00000071152505_0000071152505_00000071152505_00000071152505_0000071152505_0000071152505_0000071152505_0000071152505_0000071152505_00000071152505_0000071152505_0000071152505_0000071152505_0000071152505_00000000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20200907T060056_20200907T060304_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography (solution 1) and the tidal corrections for one or more records
DFL_UFFL_SHI_NUM_V_2100000710/1348_00000710/1348_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_000007104/34_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_0000071144/36_000071164/36_000071144/36_000071164/36_00001 There is a nerv with hold and Dynamic Topography height for one or Tore code. CS_OFFL_SIR_NON_2_20000071164/36_00001 Mean Dynamic Topography height for one or Tore code. There is a nerv with hold And Dynamic Topography height for one or Tore code. CS_OFFL_SIR_NON_2_20000071164/36_00000 Mean Dynamic Topography height for one or Tore code. There is a nerv with hold And Dynamic Topography height for one or Tore code. CS_OFFL_SIR_NON_2_20000071164/36_00000 Mean Dynamic Topography height for one or Tore code. There is a nerv with Mean Dynamic Topography height for one or Tore code. CS_OFFL_SIR_NON_2_2000007125254_000000 Mean Dynamic Topography	CS_OFFL_SIR_NOPN_2_20200907T073856_20200907T074213_C001		
US_DFFL_SHLNOPN_2_20200907104/1_202009071092754_0001 Weath Drame Departure Topography (I) more records OS_OFFL_SHLNOPN_2_20200907110952_20200907110952 Compare State (I), Mean Dynamic Topography (I) There is a more with the MSS height (soution I) and the Mean Dynamic Topography (I) OS_OFFL_SHLNOPN_2_20200907110952 Compare State (I), Mean Dynamic Topography (I) There is a more with the MSS height (soution I) and the Mean Dynamic Topography (I) OS_OFFL_SHLNOPN_2_202009071110952 Compare State (I), Mean Dynamic Topography (I) There is a more with the MSS height (soution I) and the Mean Dynamic Topography (I) OS_OFFL_SHLNOPN_2_202009071129222_202009071129222_20200907112922_20200907112922_20200907112922_20200907112922_20200907112922_20200907112922_20200907112922_20200907112922_20200907112922_20200907129221_20200907129231_2, C001 Mean Dynamic Topography (I), There is a more with the MSS height (soution I) and the Man Dynamic Topography (I), There is a more with the MSS height (soution I) and the Man Dynamic Topography (I), There is a more with the MSS height (soution I) and the Man Dynamic Topography (I), There is a more with the MSS height (soution I) and the Man Dynamic Topography (I), There is a more w	CS_OFFL_SIR_NOPN_2_20200907T074734_20200907T074853_C001		Topography height (solution 1) for one or more records
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CS_OFFL_SIR_NOPN_2_20200907T160208_20200907T160409_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_NOPN_2_20200907T160208_20200907T160409_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20200907T20528_20200907T20521_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20200907T205728_20200907T223314_20200907T223314_20200907T223314_20200907T223314_20200907T223314_20200907T223314_20200907T2233045_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20200907T223045_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20200907T232728_20200907T233045_C001 Mean Sa Surface (1), Mean Dynamic Topography (solution 1) and the tital corrections for one or more records CS_OFFL_SIR_NOPR_2_20200907T044007_20200907T04221_C001 Mean Sa Surface (1), Mean Dynamic Topography (solution 1) and the tital Genoentric Ocean Tide (GOT) CS_OFFL_SIR_NOPR_2_20200907T044007_20200907T04521_C001 Mean Sa Surface (1), Mean Dynamic Topography (solution 1) and the tital Genoentric Ocean Tide (GOT) CS_OFFL_SIR_NOPR_2_20200907T04507_C001 Mean Dynamic Topography (solution 1) and the Mas Dynamic Topography (solution 1) and the Mean Dynamic Topography (solution 1	CS_OFFL_SIR_NOPN_2_20200907T132802_20200907T132822_C001		
CS_OFFL_SIR_NOPN_2_20200907T205051_20200907T20051_C001 Mean Spramic Topography (1) more records CS_OFFL_SIR_NOPN_2_20200907T205728_20200907T210031_C001 Mean Sea Surface (1), Mean Dynamic Topography (elution 1) for one or more records CS_OFFL_SIR_NOPN_2_20200907T205728_20200907T210031_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (elution 1) and the Mean Dynamic Topography (forme or one or more records CS_OFFL_SIR_NOPN_2_20200907T223631_20200907T223645_C001 Mean Dynamic Topography (h) Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), To	CS_OFFL_SIR_NOPN_2_20200907T150243_20200907T150649_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_202009077205728_202009077120512 Topography (1) Topography (1) Topography (1) CS_OFFL_SIR_NOPN_2_202009077205728_2020090771205728_2020090771205728_2020090771205728_2020090771205728_10.001 Mean Sas Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_2020090771223114_2020090771223613_2020090771223613_20200907712236148_C001 Mean Sas Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_2020090771232631_2020090771233045_C001 Mean Sas Surface (1). Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perior CS_OFFL_SIR_NOPR_2_2020090771232026_200090771233045_C001 There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Perior CS_OFFL_SIR_NOPR_2_202009077104007_202009077104221_C001 There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_202009077051030_202009077051302_202009077051030_20200907705130_20200907705130_20200907705130_202009077056838_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907705132_202009077056838_C001 Mean Sas Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_202009077056938_C001 Mean Sasurface (1), Mean Dynamic Topography (1) <td< td=""><td>CS_OFFL_SIR_NOPN_2_20200907T160208_20200907T160409_C001</td><td>Mean Dynamic Topography (1)</td><td></td></td<>	CS_OFFL_SIR_NOPN_2_20200907T160208_20200907T160409_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20200907T20031_001 Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period CS_OFFL_SIR_NOPN_2_20200907T223114_20200907T223413_0001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20200907T223114_20200907T223413_0001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography height for one or more records CS_OFFL_SIR_NOPN_2_20200907T223631_20200907T224148_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20200907T232728_20200907T233045_0001 There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period CS_OFFL_SIR_NOPR_2_20200907T014007_20200907T004221_0001 Mean Sas 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 (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1), and the total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) There is an error with the Mas Dynamic Topography height for one or more records CS_OFFL_SIR_NOPR_2_20200907T051312_20200907T054221_C001 Mean Sas Surface (1), Mean Dynamic Topography height (solution 1) and the Me	CS_OFFL_SIR_NOPN_2_20200907T205051_20200907T205217_C001	Topography (1)	
CS_OFFL_SIR_NOPR_2_202009071223114_20200907123314_0001 Implement Dynamic Topography (1) more records CS_OFFL_SIR_NOPR_2_202009071223631_2020090772234148_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_202009077233045_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPR_2_20200907T05030_20200907T015207_0001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T051302_2020907T015207_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T063329_20200907T061641_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T063329_20200907T065388_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T063929_20200907T063743_C001 Mean Sea Surface (CS_OFFL_SIR_NOPN_2_20200907T205728_20200907T210031_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_202009077233045_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPN_2_202009077232728_202009077233045_C001 Time (EG, COT), Total Geocentric Ocean Tide (GCOT), Total Geocentric Ocean Tide (GCOT) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GCOT) CS_OFFL_SIR_NOPR_2_20200907T015030_20200907T015207_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T05392_0200907T054128_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) or one or more records CS_OFFL_SIR_NOPR_2_20200907T065031_20200907T065838_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the	CS_OFFL_SIR_NOPN_2_20200907T223114_20200907T223413_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPN_2_20200907T232728_20200907T233045_C001 Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records CS_OFFL_SIR_NOPR_2_20200907T004007_20200907T004221_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 (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPR_2_20200907T015030_20200907T015207_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_NOPR_2_20200907T051312_20200907T051641_C001 Mean Dynamic Topography (1) There is an error with the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T065031_20200907T065838_C001 Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T081908_20200907T085338_20001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T081908_20200907T082013_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001 Me	CS_OFFL_SIR_NOPN_2_20200907T223631_20200907T224148_C001		
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CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T114907_20200907T115450_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T132822_20200907T133516_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T132822_20200907T133516_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T150649_20200907T151211_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_NOPR_2_20200907T081908_20200907T082013_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_NOPR_2_20200907T114907_20200907T115450_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T114907_20200907T115450_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_NOPR_2_20200907T132822_20200907T133516_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T132822_20200907T151211_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) for one or more records	CS_OFFL_SIR_NOPR_2_20200907T082919_20200907T083743_C001		
CS_OFFL_SIR_NOPR_2_20200907T132822_20200907T133516_C001 Topography (1) Topography height (solution 1) for one or more records CS_OFFL_SIR_NOPR_2_20200907T132822_20200907T133516_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_20200907T132822_20200907T151211_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic There is an error with	CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001		
CS_OFFL_SIR_NOPR_2_20200907T150649_20200907T151211_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic	CS_OFFL_SIR_NOPR_2_20200907T114907_20200907T115450_C001		
	CS_OFFL_SIR_NOPR_2_20200907T132822_20200907T133516_C001		
	CS_OFFL_SIR_NOPR_2_20200907T150649_20200907T151211_C001	Mean Sea Surface (1), Mean Dynamic	

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:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200907T020326_20200907T021719_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20200907T034115_20200907T034901_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_NOPM_2_20200907T130609_20200907T132212_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20200906T235603_20200907T000400_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_20200907T002402_20200907T004007_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_20200907T004221_20200907T005648_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_20200907T010402_20200907T010615_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_20200907T010658_20200907T011115_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_20200907T011352_20200907T012752_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_20200907T012931_20200907T015014_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_20200907T015952_20200907T020118_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_20200907T020326_20200907T021719_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_20200907T022413_20200907T023730_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_20200907T024155_20200907T025019_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_20200907T025347_20200907T031520_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_20200907T034115_20200907T034901_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_20200907T035122_20200907T035428_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_20200907T035430_20200907T041714_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_20200907T042343_20200907T042835_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_20200907T043344_20200907T043401_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_20200907T043436_20200907T045627_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_20200907T050837_20200907T050912_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_20200907T053010_20200907T055538_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_20200907T060304_20200907T060902_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_20200907T061226_20200907T063929_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_20200907T064554_20200907T065018_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_20200907T070153_20200907T073426_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_20200907T074213_20200907T074734_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_20200907T081132_20200907T081317_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_20200907T082525_20200907T082919_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_20200907T084058_20200907T085016_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_20200907T085302_20200907T091424_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_20200907T092106_20200907T092216_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_20200907T092222_20200907T092629_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_20200907T093159_20200907T094133_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_20200907T094321_20200907T094922_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_20200907T101805_20200907T105255_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_20200907T105615_20200907T110115_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_20200907T110136_20200907T110447_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_20200907T111215_20200907T112604_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_20200907T113811_20200907T114341_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_20200907T115634_20200907T121059_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_20200907T121637_20200907T123222_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_20200907T123506_20200907T124015_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_20200907T124052_20200907T124222_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_20200907T125003_20200907T130044_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_20200907T130609_20200907T132212_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_20200907T132435_20200907T132552_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_20200907T134543_20200907T135600_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_20200907T135740_20200907T141108_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_20200907T141426_20200907T141926_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_20200907T142006_20200907T142109_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_20200907T142802_20200907T142943_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_20200907T143131_20200907T144228_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_20200907T144403_20200907T144948_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_20200907T145232_20200907T150243_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_20200907T152002_20200907T152056_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_20200907T152840_20200907T154922_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_20200907T155505_20200907T155844_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_20200907T165249_20200907T165529_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_20200907T165644_20200907T170255_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_20200907T170508_20200907T170526_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_20200907T170528_20200907T172915_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_20200907T173248_20200907T173759_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_20200907T174530_20200907T181831_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_20200907T183108_20200907T183814_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_20200907T190439_20200907T190829_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_20200907T191248_20200907T191833_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_20200907T191854_20200907T192035_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_20200907T192624_20200907T195811_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_20200907T200127_20200907T200157_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_20200907T200957_20200907T201218_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_20200907T202942_20200907T204646_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_20200907T205217_20200907T205727_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
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CS_OFFL_SIR_NOPM_2_20200907T210439_20200907T212540_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_20200907T212635_20200907T213952_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_20200907T214922_20200907T215149_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_20200907T220731_20200907T222625_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_20200907T223413_20200907T223630_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_20200907T224407_20200907T231951_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_20200907T233142_20200907T235115_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_20200907T235146_20200908T000449_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_20200907T055905_20200907T060025_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_20200907T160208_20200907T160409_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_20200907T173759_20200907T173806_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_20200907T015014_20200907T015018_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_20200907T051132_20200907T051641_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200907T092217_20200907T092222_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_20200907T135601_20200907T135740_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Attimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20200907T231952_20200907T232054_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

Number of products with errors: 74		
Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20200907T002204_20200907T002402_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_20200907T005752_20200907T010402_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_20200907T015704_20200907T015808_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_20200907T020119_20200907T020326_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.
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
	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_20200907T041938_20200907T042057_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_20200907T042835_20200907T043054_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_20200907T060056_20200907T060304_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_20200907T065839_20200907T070153_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_20200907T073856_20200907T074213_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_20200907T074734_20200907T074853_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_20200907T080206_20200907T080312_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_20200907T080732_20200907T080807_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_20200907T083749_20200907T084058_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_20200907T091747_20200907T092106_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_20200907T092629_20200907T092754_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_20200907T094922_20200907T095124_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_20200907T100431_20200907T100508_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_20200907T110447_20200907T110623_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_20200907T114341_20200907T114449_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_20200907T114806_20200907T114906_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_20200907T115451_20200907T115505_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_20200907T123326_20200907T123505_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_20200907T132212_20200907T132435_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_20200907T134344_20200907T134543_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_20200907T150243_20200907T150649_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_20200907T152309_20200907T152702_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_20200907T155216_20200907T155504_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_20200907T160208_20200907T160409_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_20200907T165529_20200907T165644_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_20200907T173112_20200907T173248_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.

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000000000000000000000000000000000000	CS_OFFL_SIR_NOPN_2_20200907T174133_20200907T174259_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
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CS OFFL_SIR_NOPR_2_202009071025330_202009071025330_202009071025191_0200 and Backscatter Cuality PLINL COCU The Occurrent and public service cocurs. CS_OFFL_SIR_NOPR_2_202009071025300_202009071035191_0200 COCO Almoter Range Cuality PLINL COCU The Occurrent and public service cocurs. The Occurrent and public service cocurs. CS_OFFL_SIR_NOPR_2_20200907105191_02000907105192_0200 COCO Almoter Range Cuality PLINL COCU The Occurrent and public service cocurs. The Occurrent and public service cocurs. CS_OFFL_SIR_NOPR_2_202009071051931_20200907105192_0001 Cocoo Almoter Range Cuality PLINL COCU The Occurrent and public service cocurs. The Occurrent and public service cocurs. CS_OFFL_SIR_NOPR_2_202009071051931_202009071054594_0011 Cocoo Almoter Range Cuality PLINL COCU The Occurrent and public service cocurs. The Occurrent and public service cocurs. CS_OFFL_SIR_NOPR_2_202009071054595_00200 Cocoo Almoter Range Cuality PLINL COCU The Occurrent and public service cocurs. The Occurrent and public service cocurs. CS_OFFL_SIR_NOPR_2_202009071054595_00200 Cocoo Almoter Range Cuality PLINL COCU The Occurrent and public service cocurs. The Occurrent and public service cocurs. CS_OFFL_SIR_NOPR_2_202009071054595_002000 Cocoo Almoter Range Cuality PLINL COCU Almoter Range and Backscatter Cuality Flags have been set for one or nor necocurs. The Occurrent Almoter Range SHA. SWH and Backscatter Cuality Flags have been set for one or n	CS_OFFL_SIR_NOPR_2_20200907T015030_20200907T015207_C001		
Occord Alimeter Pange, SHA, SWH and Backscatter Quality Fage and Backscatter Quality Fage North 2, 20200977104305, 20200977104334, C001 Core Alimeter Pange, SHA, SWH and Backscatter Quality Fage North 2, 20200977104305, 20200977104334, C001 PLFM Occord Alimeter Pange, SHA, SWH and Backscatter Quality Fage North 2, 20200977104305, 20200977104305, 20200977104305, 20200977104305, 20200977104305, 20200977104305, 20200977104534, C001 PLFM Core Alimeter Pange, SHA, SWH and Backscatter Quality Fage North 2, 20200977104595, 20200977104575, 20200977104575, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045755, 202009771045	CS_OFFL_SIR_NOPR_2_20200907T023730_20200907T024003_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
GS_OFFL_SIR_NOPR_2_20200907T043055_20200907T043344_C001 and Backscatter Quality FIBM, COCG income reactions, and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T061031_20200907T061035_20200907T061055_20200907T064564_C001 OCCG Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T064564_C001 OCCG Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T064564_C001 OCCG Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T064564_C001 OCCG Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T064501_20200907T065038_20200907T065038_20200907T075250_C001 Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T064501_20200907T064503_20200907T064503_20200907T075250_C001 Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T064510_20200907T064503_20200907T082407_C001 OCCA Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T068291_20200907T082407_C001 Alimeter Range, SHA, SWH and Backscatter Quality Fibms have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T082764_20200907T083743_C001 Alimeter Range, SHA,	CS_OFFL_SIR_NOPR_2_20200907T034901_20200907T035121_C001		
GS_OFFL_SIR_NOPR_2_20200907T061031_20200907T06128_C001 and Backscatter Quality PLRM, COCO Attimeter Range and Backscatter Quality PLRM, COCO Backscatter Quality PLRM, CS_OFFL_SIR_NOPR_2_20200907T0765031_20200907T05550_C001 The OCOCR Animeter Range, SSHA, SWH and Backscatter Quality PLRM, CS_OFFL_SIR_NOPR_2_20200907T074853_20200907T075250_C001 The OCOCR Animeter Range, SSHA, SWH and Backscatter Quality PLRM, CS_OFFL_SIR_NOPR_2_20200907T076853_20200907T075250_C001 The OCOCR Animeter Range, SSHA, SWH and Backscatter Quality PLRM, CS_OFFL_SIR_NOPR_2_20200907T081610_20200907T081905_C001 OCOCA Atimeter Range, Cuality FLRM, COCOR Atimeter Range, SSHA, SWH and Backscatter Quality PLRM, CS_OFFL_SIR_NOPR_2_20200907T082919_20200907T082407_C001 The OCOCR Atimeter Range, SSHA, SWH and Backscatter Quality PLRM, CS_OFFL_SIR_NOPR_2_20200907T082919_20200907T082475_C001 The OCOCR Atimeter Range, SSHA, SWH and Backscatter Quality FLRM, CS_OFFL_SIR_NOPR_2_20200907T082719_2020997T081746_C001 The OCOCR Atimeter Range, SSHA, SWH and Backscatter Quality FLRM, CS_OFFL_SIR_NOPR_2_20200907T08274_20200907T08243_C001 The OCOCR Atimeter Range, SSHA, SWH and Backscatter Quality FLRM, CS_OFFL_SIR_NOPR_2_20200907T091746_C001 The OCOCR Atimeter Range, SSHA, SWH and Backscatter Quality FLRM, CS_OFFL_SIR_NOPR_2_20200907T092754_20200907T091746_C001 The OCOCR Atimeter Range, SSHA, SWH and Backscatter Quality FLRM, CS_OFFL_SIR_NOPR_2_20200907T10927	CS_OFFL_SIR_NOPR_2_20200907T043055_20200907T043344_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T065031_20200907T065032_0001 OCCC Backscater Qualty more records. CS_OFFL_SIR_NOPR_2_20200907T065031_20200907T065033_0001 OCCA Backscater Qualty Hand Backscater Qualty Fund CoCA Altimeter Range, SSHA, SWH and Backscater Qualty Flags have been at for one or more records. CS_OFFL_SIR_NOPR_2_20200907T074853_20200907T075250_C001 OCCA Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. The OCGA Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. CS_OFFL_SIR_NOPR_2_20200907T081610_20200907T081905_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. The OCGA Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. CS_OFFL_SIR_NOPR_2_20200907T082216_20200907T082407_C001 OCCG Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. The OCGA Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. CS_OFFL_SIR_NOPR_2_20200907T082216_20200907T082407_C001 OCCGA Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. The OCGA Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. CS_OFFL_SIR_NOPR_2_20200907T082407_C001 Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records. The OCGA Altimeter Range, SSHA, SWH and Backscatter Qualty Flags have been at for one or more records.	CS_OFFL_SIR_NOPR_2_20200907T061031_20200907T061226_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T065031_20200907T065038_C001 and Backscatter Quality PLEM. OCOL Into OCOCA Alimeter Range, SSHA, SWH and Backscatter Quality Flags nave been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T074653_20200907T075250_C001 Alimeter Range, SSHA, SWH and Backscatter Quality Flags nave been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T076505_C001 OCOGA Alimeter Range, Quality PLRM, OCOG CS_OFFL_SIR_NOPR_2_20200907T081610_20200907T081905_C001 OCOGA Alimeter Range, SSHA, SWH CS_OFFL_SIR_NOPR_2_20200907T08216_20200907T082407_C001 OCOGA Alimeter Range, SSHA, SWH CS_OFFL_SIR_NOPR_2_20200907T08216_20200907T082407_C001 Ocoga Alimeter Range, SSHA, SWH CS_OFFL_SIR_NOPR_2_20200907T08216_20200907T082407_C001 Alimeter Range, SSHA, SWH CS_OFFL_SIR_NOPR_2_20200907T08216_20200907T083743_C001 The Ocean Alimeter Range, SSHA, SWH CS_OFFL_SIR_NOPR_2_20200907T082919_20200907T083743_C001 Alimeter Range, SSHA, SWH CS_OFFL_SIR_NOPR_2_20200907T091744_2000907T091746_C001 Alimeter Range and Backscatter Quality Flags nave been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T092754_20200907T09159_C001 Alimeter Range, SSHA, SWH Alimeter Range and Backscatter Quality Flags nave been set for one or more records. The Ocean Alimeter Range and Backscatter Quality Flags nave been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T091744_2000907T091746_C001 <td< td=""><td>CS_OFFL_SIR_NOPR_2_20200907T064505_20200907T064554_C001</td><td></td><td></td></td<>	CS_OFFL_SIR_NOPR_2_20200907T064505_20200907T064554_C001		
GS_OFFL_SIR_NOPR_2_20200907T074853_20200907T075250_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T082216_20200907T082407_C001 OCOG Altimeter Range, SHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records. GS_OFFL_SIR_NOPR_2_20200907T082216_20200907T082407_C001 Ocean Altimeter Range, SHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been PLRM GS_OFFL_SIR_NOPR_2_20200907T082919_20200907T08743_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been PLRM GS_OFFL_SIR_NOPR_2_20200907T091746_2001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been PLRM GS_OFFL_SIR_NOPR_2_20200907T091746_2001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been PLRM GS_OFFL_SIR_NOPR_2_20200907T092754_20200907T093159_C001 Decean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Alt Backscatter Quality Flags, Nave been alt for one or more records. GS_OFFL_SIR_NOPR_2_20200907T101066_20200907T101084_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags Alt Backscatter Quality Flags, Nave been alt dBackscatter Quality Flags And	CS_OFFL_SIR_NOPR_2_20200907T065031_20200907T065838_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_202009071081610_202009071082407_C001 OCOG Backscatter Quality more records. CS_OFFL_SIR_NOPR_2_202009071082216_202009071082407_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 PLRM CS_OFFL_SIR_NOPR_2_202009071082919_202009071083743_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_2020090710917242_02009071091746_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_2020090710917254_202009071093159_C001 Ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_202009071105255_202009071105420_C001 Ocean Altimeter Range and Backscatter Quality Flags have b	CS_OFFL_SIR_NOPR_2_20200907T074853_20200907T075250_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T082216_20200907T082407_C001 Ind Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T082919_20200907T083743_C001 Cocan 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, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality FLRM CS_OFFL_SIR_NOPR_2_20200907T092754_20200907T093159_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Bac	CS_OFFL_SIR_NOPR_2_20200907T081610_20200907T081905_C001		, , , , , , , , , , , , , , , , , , ,
CS_OFFL_SIR_NOPR_2_20200907T082919_20200907T083743_C001 and Backscatter Quality PLRM, COCG Attimeter Range and Backscatter Quality PLRM The OCGA Itimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T091424_20200907T091746_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Attimeter Range and Backscatter Quality PLRM, COCG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, COCG Attimeter Range and Backscatter Quality PLRM, SCGA Attimeter Range and Backscatter Quality PLRM, SWH and Backscatter Quality PLRM, SCGA Attimeter Range and Backscatter Quality PLRM, SCGA Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T105255_20200907T105420_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Attimeter Range and Backscatter Quality PLRM, OCCG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T1105420_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCCG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110542	CS_OFFL_SIR_NOPR_2_20200907T082216_20200907T082407_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T091424_20200907T091746_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ine Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T092754_20200907T093159_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 PLRM CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T105255_20200907T105420_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags hand Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags hand Backscatter Quality PLRM, OCOG Altimeter Range and Backscatte	CS_OFFL_SIR_NOPR_2_20200907T082919_20200907T083743_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T092754_20200907T093159_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001 Cean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T105255_20200907T105420_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T1105255_20200907T1105420_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range, and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110956_C001 OCOG Altimeter Range Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T1115505_20200907T1115504_C001 OCOG Altimeter Range Quality PLRM, OCOG Attimeter Range Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or <td>CS_OFFL_SIR_NOPR_2_20200907T091424_20200907T091746_C001</td> <td>and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_NOPR_2_20200907T091424_20200907T091746_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ind Bockscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200907T105255_20200907T105420_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110956_C001 Ocean Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T1110623_20200907T110956_C001 OCOG Altimeter Range Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110956_C001 OCOG Altimeter Range Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPR_2_20200907T092754_20200907T093159_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T105255_20200907T105420_C001 and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM Ind Bockscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110956_C001 and Backscatter Quality PLRM, OCOG Attimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality PLRM, OCOG Attimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110956_C001 OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM CS_OFFL_SIR_NOPR_2_20200907T115505_20200907T115504_C001 OCOG Altimeter Range Quality PLRM, DCOG Altimeter Range Quality PLRM,	CS_OFFL_SIR_NOPR_2_20200907T101006_20200907T101804_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110956_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags have been PLRM OCOG Altimeter Range Quality PLRM, The OCOG Range and Backscatter Quality Flags have been set for one or	CS_OFFL_SIR_NOPR_2_20200907T105255_20200907T105420_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPR_2_20200907T110623_20200907T110956_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPR_2_20200907T115505_20200907T115634_C001		

CS_OFFL_SIR_NOPR_2_20200907T124430_20200907T125003_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_20200907T130356_20200907T130609_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_20200907T141108_20200907T141240_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_20200907T150649_20200907T151211_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_20200907T151239_20200907T151403_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_20200907T174300_20200907T174530_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_20200907T190829_20200907T191123_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_20200907T192149_20200907T192624_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_20200907T201331_20200907T201659_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_20200907T204646_20200907T205051_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_20200907T210031_20200907T210439_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_20200907T222625_20200907T223114_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_20200907T224149_20200907T224407_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_20200907T231952_20200907T232054_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_20200907T235115_20200907T235145_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.

169

63

116

> 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:

5.7 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20Hz)

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

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

4

Number of products with errors:

L2 Retracking Flags (20Hz, PLRM)

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

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

Number of products with errors:

7. NOP QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_NOPM1B	140	140	5	135	0
SIR_NOPR1B	82	82	0	82	0
SIR_NOPN1B	94	94	3	91	0
SIR_NOPM_2	140	140	86	54	0
SIR_NOPR_2	82	82	22	59	1
SIR_NOPN_2	94	94	39	55	0

7.1 QCC Errors

Number of QCC reports with errors:

Total number of occurrences of each error											
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_NOPR_2	1	1	1	1							

Test 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

ber of QCC repo	rts with warnings	1570	Total n	umber of occurrences	of each warning		
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMN
SIR_NOPM1B	135	0	0	0	0	0	0
SIR_NOPM_2	0	0	43	41	0	40	0
SIR_NOPN1B	88	0	0	0	0	0	0
SIR_NOPN_2	0	0	5	23	3	24	26
SIR_NOPR1B	80	0	0	0	0	0	0
SIR_NOPR_2	0	1	36	39	1	35	36
Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	BPEPOPEDPI BMSA			RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR NOPM1B	0	0	0	0	0	0	0
SIR NOPM 2	37	36	0	0	0	0	27
SIR NOPN1B	0	0	0	0	0	0	0
SIR NOPN 2	16	0	0	20	0	27	0
SIR NOPR1B	0	0	0	0	0	0	0
SIR NOPR 2	16	0	43	0	45	0	0
Product Type	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	0	0	6	31	0	5	40
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	21	18	45	46	26	27
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	41	0	2	48	32	4	36
Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-	-
SIR_NOPM1B	0	0	0	0	0		
SIR_NOPM_2	0	4	0	0	0		
SIR_NOPN1B	0	0	0	41	0		
SIR_NOPN_2	26	11	0	0	0		
SIR_NOPR1B	0	0	0	82	4		
SIR NOPR 2	43	4	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				
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees				
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only				
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	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