

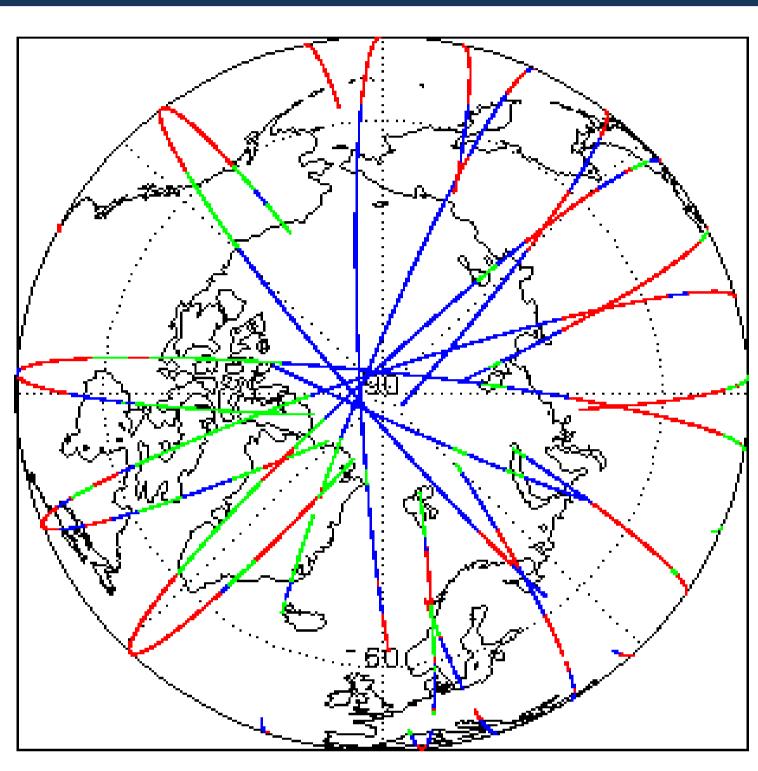
1. Overview

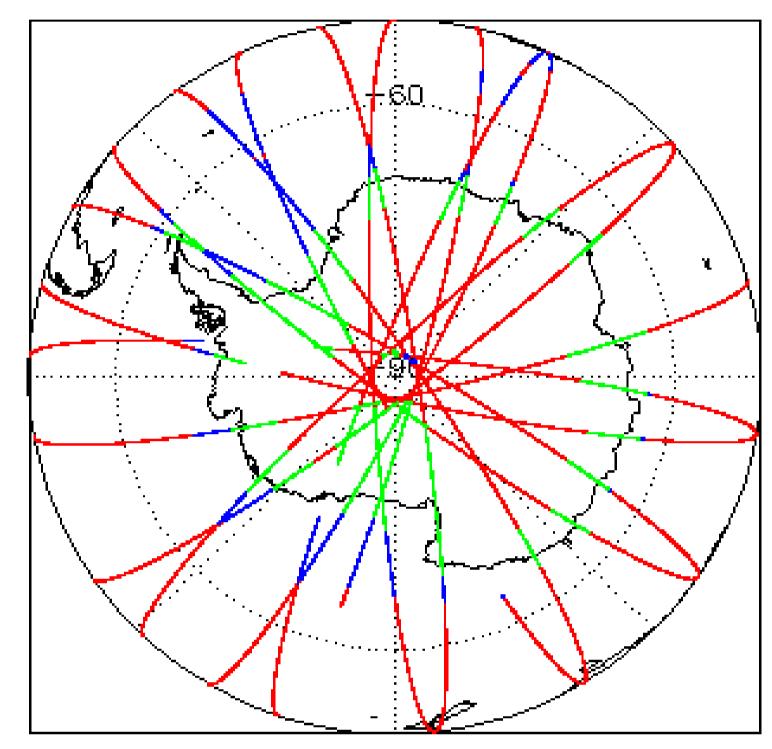
Report Production:	22-Feb-2021			
Processor Used:	CryoSat Ocean Processor			
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data			

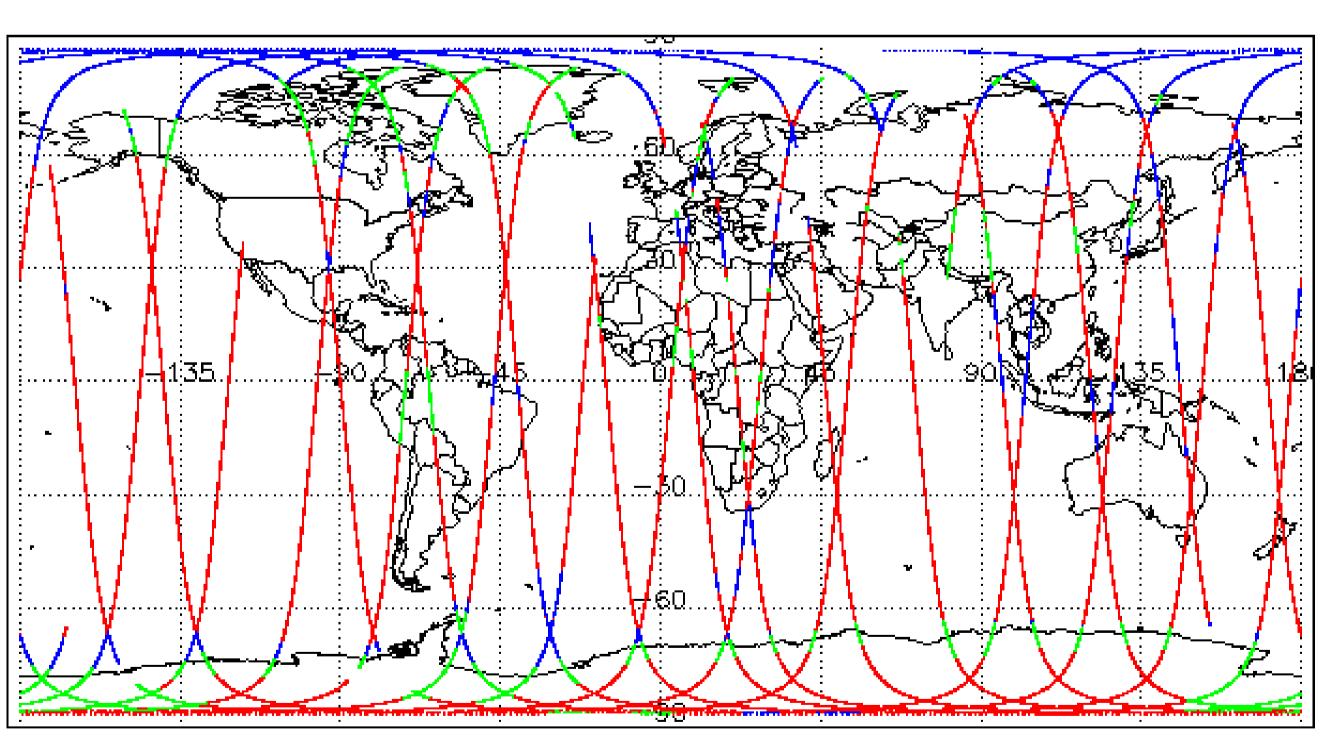
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement Confidence Data Check	See Section 4.5, 4.6
Measurement Quality Flag Check	See Section 5.6
Ocean Retracking Quality Check	See Section 5.7
QCC Error/ Warning Check	See Section 7.1 and 7.2

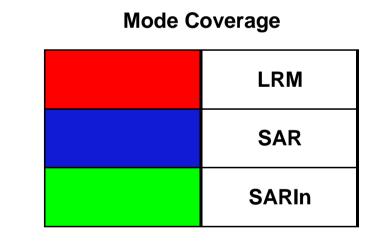
Mission / Instrument News		
19-Feb-2021	None	
20-Feb-2021	None	
21-Feb-2021	Nothing planned	

2. Global Coverage









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).

4.2 L1B Product Header Analysis

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

L1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and OSARIn chains. A modification is required in the next release.

Number of products with errors:

4.3 L1B Auxilary Data File Usage Check

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

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

0

4.5 L1B Measurement Confidence Data Check

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

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

Number of products with errors:

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

14

0

Product	Test Failed	Description
CS_OFFL_SIR_NOPM1B_20210220T092455_20210220T095540_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210220T111853_20210220T112601_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPM1B_20210220T152319_20210220T152459_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T022954_20210220T023200_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T041218_20210220T041322_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T051111_20210220T051235_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T054651_20210220T055007_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T055011_20210220T055221_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T155524_20210220T155639_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T173037_20210220T173143_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T190951_20210220T191501_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPN1B_20210220T235842_20210220T235931_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210220T005427_20210220T010525_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_NOPR1B_20210220T173943_20210220T174054_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:

O

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:

0

5.4 L2 Auxiliary Correction Error Check

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

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

- > ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric Correction, Wet Tropospheric Correction, Inverse Barometric Correction and the U-Wind and V-Wind components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

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

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210220T000303_20210220T000617_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_NOPN_2_20210220T001131_20210220T001248_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210220T005405_20210220T005427_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPN_2_20210220T015037_20210220T015152_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_NOPN_2_20210220T022954_20210220T023200_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210220T023249_20210220T023413_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_NOPN_2_20210220T040649_20210220T041101_C001	Total Geocentric Ocean Tide (GOT)	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210220T041218_20210220T041322_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_NOPN_2_20210220T050615_20210220T050846_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_NOPN_2_20210220T055011_20210220T055221_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_NOPN_2_20210220T072653_20210220T073045_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_NOPN_2_20210220T113543_20210220T113704_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_NOPN_2_20210220T123348_20210220T123500_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210220T131513_20210220T131627_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210220T132131_20210220T132449_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_NOPN_2_20210220T145606_20210220T145843_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210220T155123_20210220T155243_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_NOPN_2_20210220T155524_20210220T155639_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210220T163402_20210220T163740_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210220T173037_20210220T173143_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_NOPN_2_20210220T181338_20210220T181437_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210220T190951_20210220T191501_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPN_2_20210220T195312_20210220T195430_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPN_2_20210220T213442_20210220T213638_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and the tidal corrections for one or more records
CS_OFFL_SIR_NOPN_2_20210220T231224_20210220T231548_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_NOPN_2_20210220T232114_20210220T232231_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T005427_20210220T010525_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_20210220T023414_20210220T024157_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_20210220T041322_20210220T041845_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_20210220T050846_20210220T051110_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210220T054203_20210220T054303_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography height (solution 1) and the Total Geocentric Ocean Tide height (solution 1: GOT) for one or more records
CS_OFFL_SIR_NOPR_2_20210220T055222_20210220T055919_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_20210220T061257_20210220T062113_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T073045_20210220T073552_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_20210220T105803_20210220T110003_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T110341_20210220T110517_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T123951_20210220T124143_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T154408_20210220T154929_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_20210220T163249_20210220T163402_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_NOPR_2_20210220T172353_20210220T172548_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T204507_20210220T205011_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_20210220T221307_20210220T221353_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T221858_20210220T222036_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_NOPR_2_20210220T222210_20210220T223213_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1) for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

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.

0

Number of products with errors: 88

Product	Test Failed	Description
CS_OFFL_SIR_NOPM_2_20210220T000618_20210220T001131_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_20210220T001309_20210220T001618_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T001735_20210220T003238_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_20210220T004850_20210220T005019_C001	9 1	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

0.0 OFFLOR 100TH 2 ACTION TO 100 EQUITY OFFLOR CONTROL OFFLOR CONT	CS_OFFL_SIR_NOPM_2_20210220T010525_20210220T011425_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.
Security Control Contr	CS_OFFL_SIR_NOPM_2_20210220T011710_20210220T013927_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Control Cont	CS_OFFL_SIR_NOPM_2_20210220T014441_20210220T014618_C001		
Section Column	CS_OFFL_SIR_NOPM_2_20210220T014626_20210220T015037_C001	3	
Description Custo, COSD	CS_OFFL_SIR_NOPM_2_20210220T015246_20210220T021450_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
## CRAINCREAM CODES ## ACTION OF THE ACTION	CS_OFFL_SIR_NOPM_2_20210220T021533_20210220T022004_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Description of the Common Administration of t	CS_OFFL_SIR_NOPM_2_20210220T022910_20210220T022913_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
## discovered Quality. COOD. Control Region and Biologouster Quality. COOD. Control Region and Biologouster Quality. Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I are been active on the Coop. An Interfer Region and Biologouster Quality. Plags I have been active on the Coop. An Interfer Region and Biologouster Quality. Plags I have been active on the Coop. An Interfer Region and Biologouster Quality. Plags I have been active on the Coop. An Interfer Region and Biologouster Quality. Plags I have been active on the Coop. An Interfer Region and Biologouster Quality. Plags I have been active on the Coop. An Interfer Region and Biologouster Quality. Plags I have been active on the Coop. An Interfer Region and Biologouster Quality. Plags I have b	CS_OFFL_SIR_NOPM_2_20210220T024641_20210220T024953_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the COGA Allimeter Range and Bioexcenter Quality Flags have been all become the Range and Bioexcenter Quality Flags have been all become the Range and Bioexcenter Quality Flags have been all become the Range and Bioexcenter Quality Flags have been and the Range and Bioexcenter Quality Flags have been and the Range SINLA, SMH and Selected Politics (CS_OFFL_SIR_NOPM_2_202102201032557_20210201032759_C001) CS_OFFL_SIR_NOPM_2_202102201032557_20210201032759_C001 CS_OFFL_SIR_NOPM_2_202102201032557_20210201032759_C001 CS_OFFL_SIR_NOPM_2_202102201032557_20210201032759_C001 CS_OFFL_SIR_NOPM_2_202102201032557_20210201032759_C001 CS_OFFL_SIR_NOPM_2_202102201032557_20210201032759_C001 CS_OFFL_SIR_NOPM_2_202102201032557_20210201032559_C001 CS_OFFL_SIR_NOPM_2_202102201032557_2021020103459_C001 CS_OFFL_SIR_NOPM_2_20210220103459_20210220103459_C001 CS_OFFL_SIR_NOPM_2_20210220103459_2021022010459_C001 CS_OFFL_SIR_NOPM_2_20210220103459_2021022010459_C001 CS_OFFL_SIR_NOPM_2_2021022010459_2021022010459_C001 CS_OFFL_SIR_NOPM_2_2021022010459_2021022010459_C001 CS_OFFL_SIR_NOPM_2_2021022010459_2021022010459_C001 CS_OFFL_SIR_NOPM_2_2021022010459_2021022010459_C001 CS_OFFL_SIR_NOPM_2_2021022010459_2021022010459_C001 CS_OFFL_SIR_NOPM_2_2021022010459_20210201059_01_2001059_0	CS_OFFL_SIR_NOPM_2_20210220T025058_20210220T030147_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and flackscarter Quality, QCOG Alternetic Range and Service after Quality Flags have been set advication of County CS_OFFL_SIR_NOPM_2_20210220103980_202102201032814_C0C1 OCOG Alternetic Range Quality, OCOG Alternetic Range and Backscarter Quality Flags have been set advication of County OCOG Alternetic Range and Backscarter Quality Flags have been set advication of County The OCOG Alternetic Range and Backscarter Quality Flags have been set advication of County OCOG Alternetic Range and Backscarter Quality Flags have been set and Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been set and Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been set and Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality County OCOG Alternetic Range and Backscarter Quality Flags have been set and Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality Flags have been Seckedater Quality, OCOG Alternetic Range and Backscarter Quality	CS_OFFL_SIR_NOPM_2_20210220T030152_20210220T031031_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NORW_2_202*0220T03893*_202*10220T04893*_C001 CS_OFFL_SIR_NORW_2_202*0220T03892*_202*10220T04893*_C001 CS_OFFL_SIR_NORW_2_202*0220T03892*_202*10220T04895*_C001 CS_OFFL_SIR_NORW_2_202*0220T03892*_202*10220T04895*_C001 CS_OFFL_SIR_NORW_2_202*0220T04895*_202*10220T04895*_C001 CS_OFFL_SIR_NORW_2_202*0220T04995*_202*10220T04895*_C001 CS_OFFL_SIR_NORW_2_202*0220T04995*_202*10220T04995*_C001 CS_OFFL_SIR_NORW_2_202*0220T04995*_202*10220T04995*_C001 CS_OFFL_SIR_NORW_2_202*0220T04905*_202*10220T04995*_C001 CS_OFFL_SIR_NORW_2_202*0220T04995*_202*10220T04995*_C001 CS_OFFL_SIR_NORW_2_202*0220T04995*_202*10220T059045*_C001 CS_OFFL_SIR_NORW_2_202*0220T059045*_202*10220T059045*_C001 CS_OFFL_SIR_NORW_2_202*0220T059045*_202*10220T059055*_C001 CS_OFFL_SIR_NORW_2_202*0220T059045*_202*_000055*_C001 CS_OFFL_SIR_NORW_2_202*0220T059	CS_OFFL_SIR_NOPM_2_20210220T031034_20210220T031826_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Seckestater Quality CS_OFFL_SIR_NOPM_2_20210220T033624_20210220T03453_CO01 CS_OFFL_SIR_NOPM_2_20210220T034553_CO01 CS_OFFL_SIR_NOPM_2_20210220T04565_20210220T040545_CO01 CS_OFFL_SIR_NOPM_2_20210220T04565_20210220T040545_CO01 CS_OFFL_SIR_NOPM_2_20210220T040565_20210220T040546_CO01 CS_OFFL_SIR_NOPM_2_20210220T04055_20210220T040546_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T040546_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T04056_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T04056_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T04056_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T04056_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T04056_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T04056_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T04056_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T04056_20210220T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T05045_20210220T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T05045_2021020T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T05045_2021020T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T05045_2021020T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T05045_2021020T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T05045_	CS_OFFL_SIR_NOPM_2_20210220T031953_20210220T032518_C001		
and the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all the OCOGA Alimeter Range and Backscatter Quality Flags have been all to read or more records. CS_OFEL_SIR_NOPM_2_20210220T04208_20210220T04947_C001 CS_OFEL_SIR_NOPM_2_20210220T044151_20210220T045733_C001 CS_OFEL_SIR_NOPM_2_20210220T044151_20210220T045733_C001 CS_OFEL_SIR_NOPM_2_20210220T045921_20210220T045733_C001 CS_OFEL_SIR_NOPM_2_20210220T045921_20210220T050416_C001 CS_OFEL_SIR_NOPM_2_20210220T045921_20210220T050418_C001 CS_OFEL_SIR_NOPM_2_20210220T050437_20210220T050418_C001 CS_OFEL_SIR_NOPM_2_20210220T050437_20210220T050418_C001 CS_OFEL_SIR_NOPM_2_20210220T050437_20210220T050418_C001 CS_OFEL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050454_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFEL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFEL_SIR_NOPM_	CS_OFFL_SIR_NOPM_2_20210220T032537_20210220T032759_C001		
and the OCOG Allimeter Range and Backscatter Quality Flags have been extended to come or more records. CS_OFFL_SIR_NOPM_2_20210220T042088_20210220T042108_C001 CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T042087_C001 CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T043947_C001 CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T043947_C001 CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T043947_C001 CS_OFFL_SIR_NOPM_2_20210220T044151_20210220T045733_C001 CS_OFFL_SIR_NOPM_2_20210220T044151_20210220T045733_C001 CS_OFFL_SIR_NOPM_2_20210220T045021_20210220T050416_C001 CS_OFFL_SIR_NOPM_2_20210220T050437_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050440_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050440_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T0504400_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050456_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050566_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050566_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050566_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050566_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050566_C001 CS_OFFL_SIR_NOPM_2_20210220T0505045_C001 CS_OFFL_SIR_NOPM_2_20210220T0505045_C001 CS_OFFL_SIR_NOPM_2_20210220T0505045_C001 CS_OFFL_SIR_NOPM_2_20210220T050505_C00100000000000000000000000000000	CS_OFFL_SIR_NOPM_2_20210220T033624_20210220T034853_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T043947_C001 CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T043947_C001 CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T043947_C001 CS_OFFL_SIR_NOPM_2_20210220T044151_20210220T045733_C001 CS_OFFL_SIR_NOPM_2_20210220T044151_20210220T045733_C001 CS_OFFL_SIR_NOPM_2_20210220T045921_20210220T050416_C001 CS_OFFL_SIR_NOPM_2_20210220T050437_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050437_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050455_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T0505448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T0505485_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T05055540_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T05055540_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T05055540_C001 CS_OFFL_SIR_NOPM_2_20210220T0504592_20210220T05055540_C001 CS_OFFL_SIR_NOPM_2_20210220T0504592_20210220T05055540_C001 CS_OFFL_SIR_NOPM_2_20210220T050493_20210220T054836_C001 CS_OFFL_SIR_NOPM_2_20210220T050493_20210220T054836_C001 CS_OFFL_SIR_NOPM_2_20210220T050493_20210220T054836_C001 CS_OFFL_SIR_NOPM_2_20210220T050493_20210220T054836_C001 CS_OFFL_SIR_NOPM_2_20210220T054934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T054934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T054934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T054934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T054934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T054856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T064856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T064856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T064856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T064856_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T064856_C001 CS_OFFL_SIR_NOPM	CS_OFFL_SIR_NOPM_2_20210220T034950_20210220T040649_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20210220T050413_20210220T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T050445_20210220T050448_CO01 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_CO01 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_CO01 CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_CO01 CS_OFFL_SIR_NOPM_2_20210220T050301 20210220T054203 CO01 CS_OFFL_SIR_NOPM_2_20210220T0540113 20210220T054203 CO01 CS_OFFL_SIR_NOPM_2_20210220T0540113 20210220T054626 CO01 CS_OFFL_SIR_NOPM_2_20210220T0540113 20210220T054626 CO01 CS_OFFL_SIR_NOPM_2_20210220T0540113 20210220T054626 CO01 CS_OFFL_SIR_NOPM_2_20210220T0540113 20210220T054626 CO01 CS_OFFL_SIR_NOPM_2_20210220T0540113 20210220T056420 CO01 CS_OFFL_SIR_NO	CS_OFFL_SIR_NOPM_2_20210220T042058_20210220T042108_C001		
CS_OFFL_SIR_NOPM_2_20210220T044151_20210220T050416_C001 Altimeter Range and Backscatter Quality Flags have been alter for one or more records. CS_OFFL_SIR_NOPM_2_20210220T050437_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050437_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050416_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFFL_SIR_NOPM_2_20210220T0503021_20210220T052540 C001 CS_OFFL_SIR_NOPM_2_20210220T0503021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T062113_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T062113_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T0653626_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065406_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065406_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065406_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065406_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065540_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065540_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T06566_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065540_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065540_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065540_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T065656_C001 CS_OFFL_SIR_NOPM_2	CS_OFFL_SIR_NOPM_2_20210220T043025_20210220T043947_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20210220T050437_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050448_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001 CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001 CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T075640_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T075640_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T0756540_C001 CS_OFFL_SIR_NOP	CS_OFFL_SIR_NOPM_2_20210220T044151_20210220T045733_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_C001 CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001 CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001 CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T052540_C001 CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T063021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T062113_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T062113_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T06	CS_OFFL_SIR_NOPM_2_20210220T045921_20210220T050416_C001		
Backscatter Quality CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001 CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T054203_C001 CS_OFFL_SIR_NOPM_2_20210220T062113_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T062113_20210220T063626_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T092455_20210220T095540_C001 Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG	CS_OFFL_SIR_NOPM_2_20210220T050437_20210220T050448_C001		, ,
CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. 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 Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the	CS_OFFL_SIR_NOPM_2_20210220T050455_20210220T050615_C001		, ,
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 CS_OFFL_SIR_NOPM_2_20210220T092455_20210220T095540_C001 Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20210220T051311_20210220T052540_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range 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 and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags and Backscat	CS_OFFL_SIR_NOPM_2_20210220T053021_20210220T054203_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records. Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, 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 Flags and the OCOG Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_NOPM_2_20210220T062113_20210220T063626_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20210220T092455_20210220T095540_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been	CS_OFFL_SIR_NOPM_2_20210220T064934_20210220T071654_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
	CS_OFFL_SIR_NOPM_2_20210220T092455_20210220T095540_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20210220T095706_20210220T100201_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_20210220T100208_20210220T100537_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_20210220T100844_20210220T104342_C001	•	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T112852_20210220T113014_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T113214_20210220T113522_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_20210220T113705_20210220T114232_C001		The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T114803_20210220T121250_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_20210220T121322_20210220T122202_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T123525_20210220T123713_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_20210220T123908_20210220T123934_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T125440_20210220T131414_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_20210220T131628_20210220T132131_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_20210220T132655_20210220T140044_C001	1	The Ocean Altimeter Range, SSHA, SWH 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_20210220T142612_20210220T144907_C001	and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH 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_20210220T145843_20210220T150036_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_20210220T150710_20210220T151931_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T152010_20210220T152246_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T152319_20210220T152459_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T152941_20210220T153756_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_20210220T154143_20210220T154145_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_20210220T154400_20210220T154408_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_20210220T155244_20210220T155523_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_20210220T155701_20210220T161346_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T161554_20210220T163024_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T164039_20210220T164451_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_20210220T164627_20210220T165905_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPM_2_20210220T170005_20210220T170205_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_20210220T170406_20210220T171327_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_20210220T171825_20210220T171830_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_20210220T171951_20210220T171956_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_20210220T174139_20210220T175112_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_20210220T175812_20210220T181300_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T181536_20210220T182353_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_20210220T182553_20210220T184237_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPM_2_20210220T184524_20210220T184735_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_20210220T192451_20210220T195202_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_20210220T195713_20210220T200222_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_20210220T200505_20210220T203030_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_20210220T210207_20210220T213044_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_20210220T213638_20210220T214242_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_20210220T214412_20210220T221239_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_20210220T223546_20210220T230954_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_20210220T231548_20210220T232113_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_20210220T232246_20210220T232907_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_20210220T235931_20210221T000235_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_20210220T041845_20210220T041926_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_20210220T092437_20210220T092455_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_20210220T095541_20210220T095558_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_20210220T132131_20210220T132449_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_20210220T163115_20210220T163249_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_20210220T171328_20210220T171523_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_20210220T005427_20210220T010525_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_NOPR_2_20210220T032946_20210220T033252_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210220T100719_20210220T100844_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210220T104458_20210220T104539_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_20210220T151931_20210220T152010_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPR_2_20210220T153840_20210220T153842_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_20210220T204102_20210220T204305_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: 84

Product	Test Failed	Description
CS_OFFL_SIR_NOPN_2_20210220T014021_20210220T014441_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_20210220T015037_20210220T015152_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_20210220T022954_20210220T023200_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_20210220T031830_20210220T031953_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_20210220T040649_20210220T041101_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_20210220T041218_20210220T041322_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_20210220T042635_20210220T042826_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_20210220T045738_20210220T045921_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_20210220T052540_20210220T052706_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_20210220T052706_20210220T053021_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_20210220T054316_20210220T054439_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_20210220T055011_20210220T055221_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_20210220T072436_20210220T072600_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_20210220T072653_20210220T073045_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_20210220T074536_20210220T074710_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_20210220T091617_20210220T091640_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_20210220T092437_20210220T092455_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_20210220T095558_20210220T095706_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_20210220T100537_20210220T100719_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_20210220T104343_20210220T104458_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_20210220T104539_20210220T104655_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_20210220T110954_20210220T111003_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_20210220T111556_20210220T111630_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210220T113543_20210220T113704_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_20210220T123348_20210220T123500_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_20210220T125200_20210220T125440_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210220T132131_20210220T132449_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_20210220T155123_20210220T155243_C001	TAITIMETER 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_20210220T163402_20210220T163740_C001	TAITIMETER RANGE AND BACKSCATTER CITIALITY	The Ocean Altimeter Range, SSHA, SWH 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_20210220T171328_20210220T171523_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_20210220T172548_20210220T172606_C001	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_20210220T173510_20210220T173649_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_20210220T175254_20210220T175812_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_20210220T181338_20210220T181437_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_20210220T182354_20210220T182541_C001		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_NOPN_2_20210220T185041_20210220T185428_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_20210220T185508_20210220T185551_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_20210220T190951_20210220T191501_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_20210220T203030_20210220T203128_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_20210220T213234_20210220T213355_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_20210220T231224_20210220T231548_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_20210220T232114_20210220T232231_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_20210220T005427_20210220T010525_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_20210220T015152_20210220T015246_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_20210220T023414_20210220T024157_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_20210220T024304_20210220T024453_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_20210220T024500_20210220T024502_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_20210220T032946_20210220T033252_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_20210220T034854_20210220T034950_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_20210220T041322_20210220T041845_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_20210220T041926_20210220T042036_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_20210220T042826_20210220T043025_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_20210220T054602_20210220T054651_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_20210220T055222_20210220T055919_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_20210220T061257_20210220T062113_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_20210220T064331_20210220T064335_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_20210220T071654_20210220T071812_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_20210220T073045_20210220T073552_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_20210220T073629_20210220T073816_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_20210220T091640_20210220T091912_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_20210220T105442_20210220T105636_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_20210220T105803_20210220T110003_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_20210220T110639_20210220T110922_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_20210220T114547_20210220T114803_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_20210220T123951_20210220T124143_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_20210220T140045_20210220T140316_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_20210220T152459_20210220T152941_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_20210220T153846_20210220T154041_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_20210220T154059_20210220T154121_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_20210220T161346_20210220T161553_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_20210220T163249_20210220T163402_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_20210220T172353_20210220T172548_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_20210220T173649_20210220T173758_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_20210220T173943_20210220T174054_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_20210220T191504_20210220T191529_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_20210220T191533_20210220T191756_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_20210220T192353_20210220T192451_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_20210220T204102_20210220T204305_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_20210220T204507_20210220T205011_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_20210220T221858_20210220T222036_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_20210220T222210_20210220T223213_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_20210220T230954_20210220T231224_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_20210220T235552_20210220T235826_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

Number of products with errors: 180

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.

Number of products with errors: 57

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: 134

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	193	193	6	187	0
SIR_NOPR1B	117	117	0	117	0
SIR_NOPN1B	97	97	4	93	0
SIR_NOPM_2	193	193	138	52	3
SIR_NOPR_2	117	117	40	70	7
SIR NOPN 2	97	97	36	59	2

7.1 QCC Errors

Number of QCC reports with errors:

19

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Total number of occurrences of each error											
Product Type	EOVSNCDF	MPHSVSNCDF	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-
SIR NOPM 2	3	3	0	0	0	0					

SIR_NOPN_2	2	2	0	0	0	0			
SIR_NOPR_2	1	1	6	6	6	6			

Test Description Key		
Abbreviation	Test name	Details
EOVSNCDF	EnumOrbitVectorSourceNetCDF	Orbit vector source should match one of the allowed enumeration values - NetCDF
MPHSVSNCDF	MPH_State_Vector_Source_NetCDF	State_Vector_Source mismatch
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

Number of QCC reports with warnings

1638

Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_NOPM1B	187	0	0	0	0	0	0
SIR_NOPM_2	0	0	41	41	0	44	0
SIR_NOPN1B	89	0	0	0	0	0	0
SIR_NOPN_2	0	0	6	29	6	17	25
SIR_NOPR1B	112	0	0	0	0	0	0
SIR_NOPR_2	0	6	19	42	1	23	16

Product Type	RBSZOPOEPNCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCI	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	38	38	0	0	0	0	32
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	13	0	0	21	0	30	0
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	8	0	42	0	49	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	3	29	0	6	37
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	25	10	41	49	26	23
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	42	0	1	52	25	9	26

Product Type	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_NOPM1B	0	0	0	1	0	0	0
SIR_NOPM_2	0	3	0	1	0	0	0
SIR_NOPN1B	0	0	1	0	0	39	0
SIR_NOPN_2	25	9	0	0	1	0	0
SIR_NOPR1B	0	0	0	0	0	117	6
SIR_NOPR_2	42	1	0	0	13	0	0

Test Description Key:						
Abbreviation	Test name	Details				
	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				
	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 NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean				
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean				
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
— ·	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)				
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Stop_v2_NetCDF	Rel_Time_ASC_Node_Stop mismatch (DBL ASC, rounded up to 0.1)				
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