

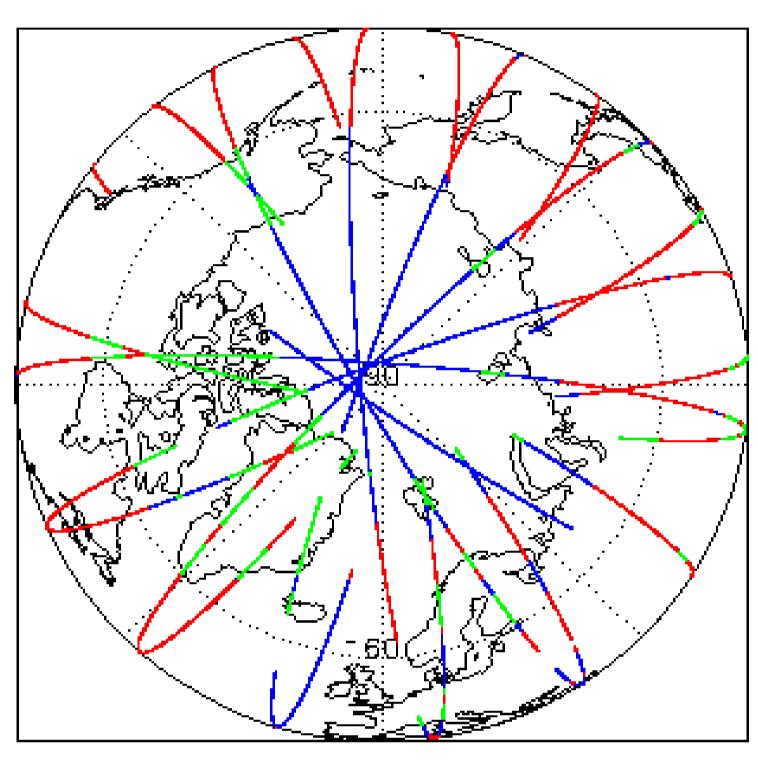
1. Overview

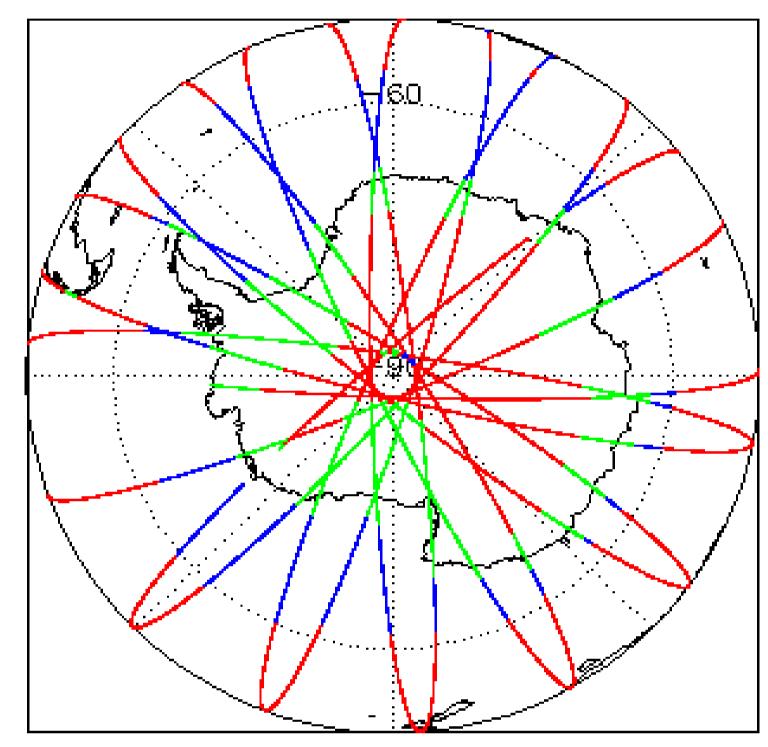
Report Production:	11-Nov-2020	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Near Real Time Ocean Products (NOP) L1B & L2 Science Data	

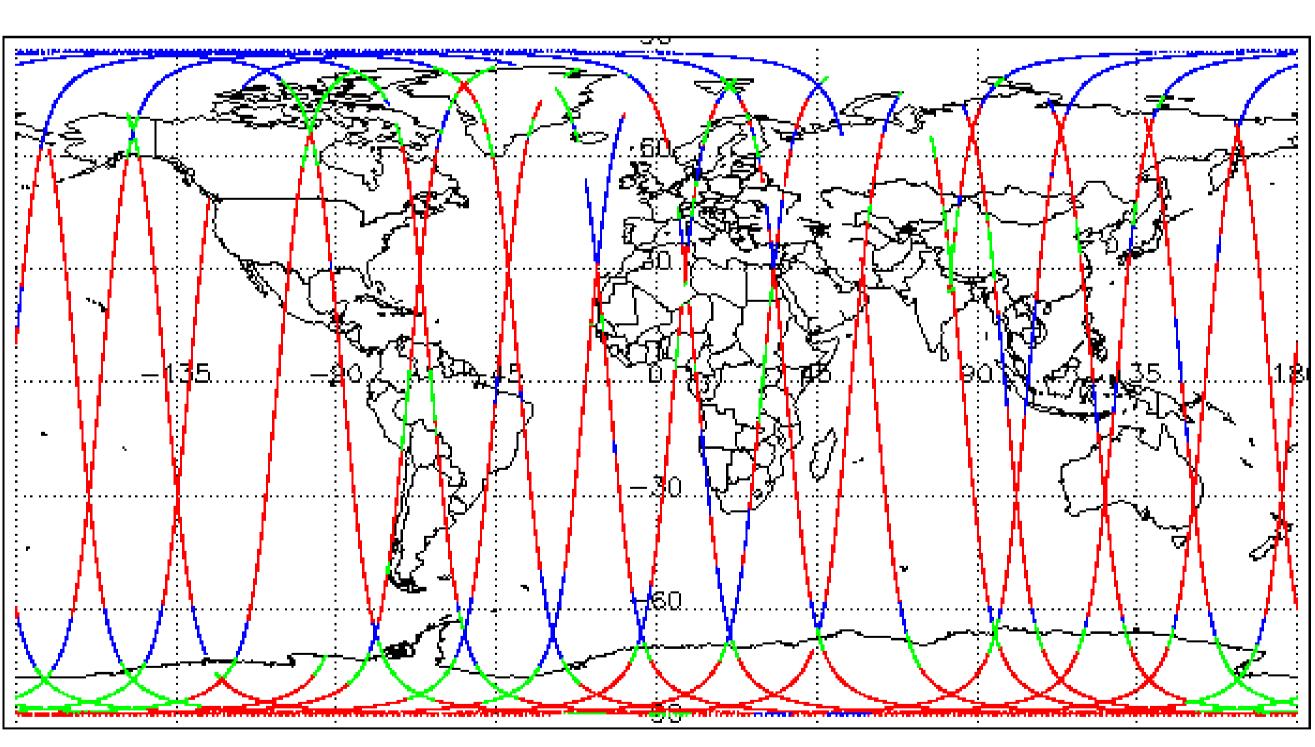
Check	L1 & L2
Server check: science-pds.cryosat.esa.int	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal
Product Software Check	Nominal
Product Format Check	Nominal
Product Header Analysis	Nominal
Auxiliary Data File Usage Check	Nominal
Auxiliary Correction Error Check	See Section 5.4
Measurement 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

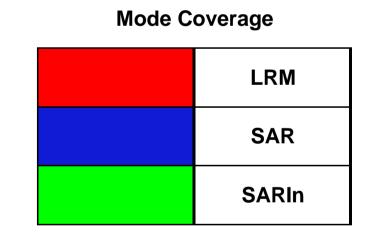
Mission / Instrument News		
09-Nov-2020	None	
10-Nov-2020	None	
11-Nov-2020	Planned maintenance at Kiruna on 2020-11-11 from 01:00UTC to 05:00UTC	

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:

17

0

Test Failed	Description
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
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Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo

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:

0

0

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.
- > 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: 42 **Product** Description Test Failed There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPM_2_20201110T035543_20201110T035643_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS OFFL SIR NOPM 2 20201110T102605 20201110T104225 C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPM_2_20201110T160402_20201110T160538_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20201109T235947_20201110T000122_C001 Mean Dynamic Topography (1) more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS_OFFL_SIR_NOPN_2_20201110T005622_20201110T010107_C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1) and the tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20201110T014806_20201110T015036_C001 Topography (1) Topography height (solution 1) for one or more records Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS_OFFL_SIR_NOPN_2_20201110T031904_20201110T032256_C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1) and the tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20201110T040929_20201110T041026_C001 more records There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_NOPN_2_20201110T045849_20201110T050203_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20201110T063609_20201110T064035_C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_NOPN_2_20201110T064621_20201110T064740_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20201110T072545_20201110T072809_C001 more records Mean Sea Surface (1), Total Geocentric There is an error with the MSS height (solution 1) and the Total Geocentric CS_OFFL_SIR_NOPN_2_20201110T082353_20201110T082540_C001 Ocean Tide (GOT) Ocean Tide height (solution 1: GOT) for one or more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20201110T090801_20201110T090903_C001 more records There is an error with the MSS height (solution 1), the Mean Dynamic Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Topography height (solution 1) and the Total Geocentric Ocean Tide CS_OFFL_SIR_NOPN_2_20201110T100202_20201110T100428_C001 Tide (GOT) height (solution 1: GOT) 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_NOPN_2_20201110T104556_20201110T104807_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_NOPN_2_20201110T113208_20201110T113428_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20201110T114106_20201110T114528_C001 Mean Dynamic Topography (1) 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_NOPN_2_20201110T122239_20201110T122631_C001 Topography height (solution 1) for one or more records Topography (1) There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20201110T123141_20201110T123216_C001 Mean Dynamic Topography (1) more records There is an error with the Mean Dynamic Topography height for one or CS_OFFL_SIR_NOPN_2_20201110T163129_20201110T163248_C001 Mean Dynamic Topography (1) 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_NOPN_2_20201110T163819_20201110T164136_C001 Topography (1) Topography height (solution 1) for one or more records There is an error with the Mean Dynamic Topography height for one or Mean Dynamic Topography (1) CS_OFFL_SIR_NOPN_2_20201110T172932_20201110T173014_C001 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 NOPN 2 20201110T181053 20201110T181208 C001 Topography height (solution 1) for one or more records Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS_OFFL_SIR_NOPN_2_20201110T181716_20201110T182031_C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1) and the tidal corrections for one or more records

Tide (FES), Non-Equilibrium Long Period

CS_OFFL_SIR_NOPN_2_20201110T195150_20201110T195426_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_20201110T195621_20201110T200202_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_20201110T204709_20201110T204745_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_20201110T213027_20201110T213328_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_20201110T222619_20201110T222726_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_20201110T230921_20201110T231128_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_20201110T022702_20201110T023656_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_20201110T035930_20201110T040108_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_20201110T041026_20201110T041815_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_20201110T054959_20201110T055949_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_20201110T072957_20201110T073734_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_20201110T090903_20201110T091432_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_20201110T104807_20201110T105500_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_20201110T122631_20201110T123141_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_20201110T155914_20201110T160110_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_20201110T212554_20201110T213027_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_20201110T221943_20201110T222035_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

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.

Number of products with errors: 79

Product	Test Failed	Description
- US OFFE SIR NOPMEZ ZUZUTTUTUUUTZZ ZUZUTTUTUUTUT6 UUUT	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_20201110T001315_20201110T003627_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_20201110T011114_20201110T013645_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.
US OFFI SIR NOPM / /0/011101014340 /0/011101014806 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_20201110T015251_20201110T021609_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.
US OFFE SIR NOPM / 202011101021612 202011101021617 C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

Common Agreement Program Guiden Common Com	CS_OFFL_SIR_NOPM_2_20201110T024508_20201110T031446_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.
OR OFFL SIR NOPE 2 20011110104391 200111310450 2001 Over a Trace Brown, S. SIR 2011 Over a Trace Brown	CS_OFFL_SIR_NOPM_2_20201110T032256_20201110T032845_C001		
of S. OFTL, BIR, NOPML 2, 22011107104254_20021110705459_C001 Cool Afterest Range, SSI A, SWI and discontrol Quality Range and Bookscaries Quality and Group Cool Afterest Range, SSI A, SWI and Buddescaries Quality Cool Afterest Range, SSI A, SWI and Buddescaries Quality Cool Afterest Range, SSI A, SWI and Buddescaries Quality and Group Cool Afterest Range, SSI A, SWI and Buddescaries Quality Cool Afterest Range, SSI A, SWI and Buddescaries Quality Cool Afterest Range, SSI A, SWI and Buddescaries Quality Cool Afterest Range, SSI A, SWI and Buddescaries Quality Cool Afterest Range, SSI A, SWI and Buddescaries Quality Cool Afterest Range, SSI A, SWI and Buddescaries Quality and Sciences Cool Afterest Range, SSI A, SWI and Buddescaries Quality and Sciences Cool Afterest Range, SSI A, SWI and Buddescaries Quality and Sciences Cool Afterest Range, SSI A, SWI and Buddescaries Quality and Sciences Cool Afterest Range, SSI A, SWI and Buddescaries Quality Range	CS_OFFL_SIR_NOPM_2_20201110T033211_20201110T035539_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS. OFFL. SIR. NOPM 2. 20201110704243. 20201110704255. COOR Allered Range and Descoulter Outly Fage have been add the OCOOR Allered Range and Descoulter Outly Fage have been and one of the Coord Allered Range and Descoulter Outly Fage have been and one of the coord Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the COOR Allered Range and Descoulter Outly Fage have been and the core of name excess. CS. OFFILSR NOPH 2. 20201110707125. 2001110707125. COOR Descou	CS_OFFL_SIR_NOPM_2_20201110T040753_20201110T040852_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backstrater Quality CS_OFFL_SIR_NOPM_2_2020110T08103_2020110T08178_0001 CS_OFFL_SIR_NOPM_2_2020110T08403_2020110T08178_0001 CS_OFFL_SIR_NOPM_2_2020110T08447_2020110T08290_0001 CS_OFFL_SIR_NOPM_2_2020110T08447_2020110T08408_0001 CS_OFFL_SIR_NOPM_2_2020110T08444_2020110T08408_0001 CS_OFFL_SIR_NOPM_2_2020110T08444_2020110T08408_0001 CS_OFFL_SIR_NOPM_2_2020110T08404_200110T08408_0001 CS_OFFL_SIR_NOPM_2_2020110T08404_200110T08408_0001 CS_OFFL_SIR_NOPM_2_2020110T08404_200110T08408_0001 CS_OFFL_SIR_NOPM_2_2020110T08408_0001 CS_OFFL_SIR_NOPM_2_20201110T08408_0001 CS_OFFL_SIR_NOPM_2	CS_OFFL_SIR_NOPM_2_20201110T042124_20201110T045458_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and become founding. OCCS GFIL_SIR_NOPM_2_202011 IUT082401_20201110T082802_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082401_20201110T082802_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082401_20201110T082802_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082401_20201110T082802_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082401_20201110T082802_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082401_20201110T082802_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082401_20201110T082802_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082402_20201110T082402_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082402_20201110T082402_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082402_20201110T082402_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082402_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082402_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T082402_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T082020_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T082020_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T082020_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T082020_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T082020_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T082020_C0101 CS_OFFIL_SIR_NOPM_2_20201110T082032_20201110T070122_C0101 CS_OFFIL_SIR_NOPM_2_20201110T070122_C0101 CS_OFFIL_SIR_NOPM_2_20201110T070122_C010110T070122_C0101 CS_OFFIL_SIR_NOPM_2_20201110T070122_C0201110T070122_C0101 CS_OFFIL_SIR_NOPM_2_20201110T070122_C0201110T070122_C0101 CS_OFFIL_SIR_NOPM_2_20201110T070122_C0201110T070122_C0101 CS_OFFIL_SIR_NOPM_2_20201110T070122_C	CS_OFFL_SIR_NOPM_2_20201110T050203_20201110T050717_C001		
cs_off_sir_nopm_2_20001110T062401_20001110T064435_C001 arc bedacester Duality, CCDG Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and the COGA Alimeter Range and Baccaster Duality Flags rave been and beautiful and beautiful and the COGA Alimeter Range SIAH, SWH and Baccaster Duality Flags rave been and beautiful	CS_OFFL_SIR_NOPM_2_20201110T051403_20201110T051758_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCA Altmeter Range and Backscatter Quality Flags nave been set for one or more records. CS_OFFL_SIR_NOPM_2_20201110T061263_20201110T061007_CO01 CS_OFFL_SIR_NOPM_2_20201110T061263_20201110T061007_CO01 CS_OFFL_SIR_NOPM_2_20201110T061263_20201110T061007_CO01 CS_OFFL_SIR_NOPM_2_20201110T061263_20201110T061007_CO01 CS_OFFL_SIR_NOPM_2_20201110T061263_20201110T064261_CO01 CS_OFFL_SIR_NOPM_2_20201110T061263_20201110T064261_CO01 CS_OFFL_SIR_NOPM_2_20201110T064261_20201110T064261_CO01 CS_OFFL_SIR_NOPM_2_20201110T064261_20201110T064261_CO01 CS_OFFL_SIR_NOPM_2_20201110T064261_20201110T064261_CO01 CS_OFFL_SIR_NOPM_2_20201110T065124_20201110T070122_CO01 CS_OFFL_SIR_NOPM_2_20201110T065124_20201110T070122_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070122_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070122_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070124_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07035_20201110T07034_CO01 CS_OFFL_SIR_NOPM_2_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110T07035_20201110	CS_OFFL_SIR_NOPM_2_20201110T052401_20201110T052820_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and the OCOS Altimeter Range and Backscatter Quality Flags have been and the OCOS Altimeter Range and Backscatter Quality Flags have been and the OCOS Altimeter Range and Backscatter Quality self for nor or records. CS_OFFL_SIR_NOPM_2_20201110T061253_20201110T063408_C001 CS_OFFL_SIR_NOPM_2_20201110T06405_20201110T06404_C001 CS_OFFL_SIR_NOPM_2_20201110T06405_20201110T06404_C001 CS_OFFL_SIR_NOPM_2_20201110T06405_20201110T06404_C001 CS_OFFL_SIR_NOPM_2_20201110T06405_20201110T06406_C001 CS_OFFL_SIR_NOPM_2_20201110T06405_20201110T070109_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070109_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070104_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070104_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07034_C001 CS_OFFL_SIR_NOPM_2_20201110T070406_20201110T070436_C001 CS_OFFL_SIR_NOPM_2_20201110T070406_20201110T084312_C001 CS_OFFL_SIR_NOPM_2_20201110T070406_20201110T084312_C001 CS_OFFL_SIR_NOPM_2_20201110T070406_20201110T084312_C001 CS_OFFL_SIR_NOPM_2_20201110T084126_20201110T084312_C001 CS_OFFL_SIR_NOPM_2_20201110T084126_20201110T084314_C001 CS_OFFL_SIR_NOPM_2_20201110T084126_20201110T084314_C001 CS_OFFL_SIR_NOPM_2_20201110T084126_20201110T08433_C001 CS_OFFL_SIR_NOPM_2_20201110T084126_20201110T08433_C001 CS_OFFL_SIR_NOPM_2_20201110T084126_20201110T08433_C001 CS_OFFL_SIR_NOPM_2_20201110T084126_20201110T08433_C001 CS_OFFL_SIR_NOPM_2_20201110T084143_C001 CS_OFFL_SIR_NOPM_2_20201110T084143_C001	CS_OFFL_SIR_NOPM_2_20201110T054434_20201110T054835_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
and Backscatter Quality COCG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20201110T064204_C001 CS_OFFL_SIR_NOPM_2_20201110T064211_20201110T064204_C001 CS_OFFL_SIR_NOPM_2_20201110T064211_20201110T06421_C001 CS_OFFL_SIR_NOPM_2_20201110T065124_20201110T070129_C001 CS_OFFL_SIR_NOPM_2_20201110T065124_20201110T070129_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070129_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T070134_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07035_C001 CS_OFFL_SIR_NOPM_2_20201110T07025_20201110T07035_C001 CS_OFFL_SIR_NOPM_2_20201110T07055_20201110T074536_C001 CS_OFFL_SIR_NOPM_2_20201110T074556_C001 CS_OFFL_SIR_NOPM_2_20201110T074556_C001 CS_OFFL_SIR_NOPM_2_20201110T074556_C001 CS_OFFL_SIR_NOPM_2_20201110T074556_C001 CS_OFFL_SIR_NOPM_2_20201110T074756_C001 CS_OFFL_SIR_NOPM_2_20201110T074756_C001 CS_OFFL_SIR_NOPM_2_20201110T074756_C001 CS_OFFL_SIR_NOPM_2_20201110T074756_C001 CS_OFFL_SIR_NOPM_2_20201110T074756_C001 CS_OFFL_SIR_NOPM_2_20201110T074756_C001 CS_OFFL_SIR_NOPM_2_20201110T074756_C001 CS_OFFL_SIR_NOPM_2_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T082104_C001 CCOG Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CCOG Altimeter Range Quality, CCOG Altimeter Range and Backscatter Quality	CS_OFFL_SIR_NOPM_2_20201110T055949_20201110T061007_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20201110T064211_20201110T064621_C001 OCGA Altimeter Range Quality, OCGB Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA 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. 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. 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 OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCGA Altimeter Range and Backscatter Quality Flags	CS_OFFL_SIR_NOPM_2_20201110T061253_20201110T063408_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20201110T065124_20201110T070129_C001 CS_OFFL_SIR_NOPM_2_20201110T070225_20201110T071034_C001 CS_OFFL_SIR_NOPM_2_20201110T070225_20201110T071034_C001 CS_OFFL_SIR_NOPM_2_20201110T070225_20201110T071034_C001 CS_OFFL_SIR_NOPM_2_20201110T074050_20201110T074536_C001 CS_OFFL_SIR_NOPM_2_20201110T074050_20201110T074536_C001 CS_OFFL_SIR_NOPM_2_20201110T074715_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T074715_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T074715_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082102_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T08	CS_OFFL_SIR_NOPM_2_20201110T064035_20201110T064204_C001		
CS_OFFL_SIR_NOPM_2_20201110T082124_20201110T082117_C001 and Backscatter Quality, CCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean 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, SSHA, SWH 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. Ocean Altimeter Range, SSHA, SWH 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. Ocean Altimeter Range, SSHA, SWH 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. Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20201110T064211_20201110T064621_C001		
and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been Set for one or more records. CS_OFFL_SIR_NOPM_2_20201110T074050_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T074715_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T081316_2001110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T081336_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082102_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082102_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082102_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082102_20201110T082107_C001 CS_OFFL_SIR_NOPM_2_20201110T082102_20201110T082107_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_2020111	CS_OFFL_SIR_NOPM_2_20201110T065124_20201110T070129_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, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20201110T074715_20201110T081312_C001 CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082110_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082110_20201110T082104_C001 CS_OFFL_SIR_NOPM_2_20201110T082110_20201110T082117_C001 CS_OFFL_SIR_NOPM_2_20201110T082110_20201110T082117_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082135_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082437_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082437_C001 CS_OFFL_SIR_NOPM_2_20201110T082208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CC_OG Altimeter Range Quality, OCOG Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CC_OG Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range All Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CC_OG Altimeter Range and Backscatter Quality Flags have been set for o	CS_OFFL_SIR_NOPM_2_20201110T070225_20201110T071034_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, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range Quality, OCOG Backscatter Qualit	CS_OFFL_SIR_NOPM_2_20201110T074050_20201110T074536_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001 Backscatter Quality CS_OFFL_SIR_NOPM_2_20201110T082110_20201110T082117_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_	CS_OFFL_SIR_NOPM_2_20201110T074715_20201110T081312_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Backscatter Quality CS_OFFL_SIR_NOPM_2_20201110T082170_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082437_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_20201110T084437_C001 CS_OFFL_SIR_NOPM_2_	CS_OFFL_SIR_NOPM_2_20201110T081536_20201110T082104_C001		
Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_NOPM_2_20201110T082110_20201110T082117_C001		
CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. Ocean Altimeter Range, SSHA, SWH The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags	CS_OFFL_SIR_NOPM_2_20201110T082123_20201110T082353_C001		
	CS_OFFL_SIR_NOPM_2_20201110T083208_20201110T084437_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20201110T084512_20201110T090227_C001 and Backscatter Quality, OCOG and the OCOG Altimeter Range and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality set for one or more records.	CS_OFFL_SIR_NOPM_2_20201110T084512_20201110T090227_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20201110T091829_20201110T091830_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_20201110T091829_20201110T091830_C001		
CS_OFFL_SIR_NOPM_2_20201110T091852_20201110T091855_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_20201110T091852_20201110T091855_C001		
CS_OFFL_SIR_NOPM_2_20201110T092550_20201110T093529_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Set for one or more records.	CS_OFFL_SIR_NOPM_2_20201110T092550_20201110T093529_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_NOPM_2_20201110T093733_20201110T095238_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_NOPM_2_20201110T093733_20201110T095238_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been

CS_OFFL_SIR_NOPM_2_20201110T095504_20201110T100002_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_20201110T100906_20201110T102031_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_20201110T102605_20201110T104225_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_20201110T111657_20201110T113116_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_20201110T113428_20201110T113916_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_20201110T113921_20201110T113933_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_20201110T114649_20201110T120834_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_20201110T120836_20201110T121246_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_20201110T142510_20201110T144920_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_20201110T145249_20201110T145746_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_20201110T145754_20201110T150122_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_20201110T150633_20201110T153929_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_20201110T155139_20201110T155407_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_20201110T162436_20201110T162558_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_20201110T163248_20201110T163818_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_20201110T164535_20201110T171909_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_20201110T173112_20201110T173241_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_20201110T175036_20201110T180636_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_20201110T181208_20201110T181716_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_20201110T182408_20201110T185826_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_20201110T191116_20201110T191138_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_20201110T192208_20201110T192640_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_20201110T192642_20201110T194451_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_20201110T200352_20201110T201622_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_20201110T201743_20201110T202043_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_20201110T202524_20201110T203639_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_20201110T204937_20201110T205057_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_20201110T205221_20201110T210949_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_20201110T211137_20201110T212554_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_20201110T213630_20201110T214035_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_20201110T214238_20201110T215623_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_20201110T215951_20201110T220436_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_20201110T220439_20201110T220914_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_20201110T223216_20201110T224838_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_20201110T225414_20201110T230233_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_20201110T230322_20201110T230704_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_20201110T231128_20201110T231938_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_20201110T232233_20201110T233735_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_20201110T052820_20201110T052844_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_20201110T102229_20201110T102407_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_20201110T102407_20201110T102605_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_20201110T205057_20201110T205217_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_20201110T213027_20201110T213328_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_20201110T061007_20201110T061253_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_20201110T121246_20201110T121305_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_20201110T173433_20201110T173707_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_20201110T190013_20201110T190014_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

Number of products with errors: 86

Product	Test Failed	Description
LS OFFE SIR NOPN / 20201110100365/ 202011101003955 COOT		The OCOG Range and Backscatter Quality Flags have been set for one or more records.
C.S. OFFI. SIR NOPN / 202011101004609 202011101004740 C.001	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_20201110T005622_20201110T010107_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_20201110T010203_20201110T010325_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_20201110T014806_20201110T015036_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_20201110T031904_20201110T032256_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_20201110T040446_20201110T040609_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_20201110T041815_20201110T041919_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_20201110T045849_20201110T050203_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_20201110T053926_20201110T054017_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_20201110T063609_20201110T064035_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_20201110T064621_20201110T064740_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_20201110T072545_20201110T072809_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_20201110T081415_20201110T081536_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_20201110T090454_20201110T090618_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_20201110T092227_20201110T092355_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_20201110T095322_20201110T095504_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_20201110T100202_20201110T100428_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_20201110T100708_20201110T100825_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_20201110T102229_20201110T102407_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_20201110T102407_20201110T102605_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_20201110T104225_20201110T104404_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_20201110T104556_20201110T104807_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_20201110T113208_20201110T113428_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_20201110T114106_20201110T114528_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_20201110T122017_20201110T122141_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_20201110T122239_20201110T122631_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_20201110T124123_20201110T124248_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_20201110T124346_20201110T124640_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_20201110T153929_20201110T154043_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_20201110T154125_20201110T154236_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_20201110T161140_20201110T161514_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_20201110T172932_20201110T173014_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_20201110T173241_20201110T173408_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_20201110T173707_20201110T173722_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_20201110T174824_20201110T175036_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_20201110T181716_20201110T182031_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_20201110T195150_20201110T195426_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_20201110T195621_20201110T200202_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_20201110T205057_20201110T205217_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_20201110T213027_20201110T213328_C001	TAITIMETER RANGE AND BACKSCATTER CHAINTY	The Ocean Altimeter Range, SSHA, SWH 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_20201110T220914_20201110T221139_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_20201110T222619_20201110T222726_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_20201110T224838_20201110T225414_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_20201110T230233_20201110T230322_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_20201110T230921_20201110T231128_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_20201110T231938_20201110T232126_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_20201110T015036_20201110T015251_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_20201110T022702_20201110T023656_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_20201110T031446_20201110T031904_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_20201110T035643_20201110T035823_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_20201110T041026_20201110T041815_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_20201110T041919_20201110T042003_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_20201110T045458_20201110T045849_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_20201110T050831_20201110T051403_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_20201110T051758_20201110T052401_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_20201110T054959_20201110T055949_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_20201110T063408_20201110T063609_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_20201110T064740_20201110T065124_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_20201110T072957_20201110T073734_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_20201110T082540_20201110T083208_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_20201110T090903_20201110T091432_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_20201110T091522_20201110T091610_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_20201110T095238_20201110T095322_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_20201110T100428_20201110T100708_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_20201110T100825_20201110T100906_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_20201110T104807_20201110T105500_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_20201110T105923_20201110T105932_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_20201110T110841_20201110T111657_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_20201110T122631_20201110T123141_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_20201110T123216_20201110T123344_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_20201110T144920_20201110T145120_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_20201110T150301_20201110T150633_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_20201110T155028_20201110T155139_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_20201110T155407_20201110T155527_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_20201110T162558_20201110T163129_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_20201110T164136_20201110T164535_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_20201110T180636_20201110T181053_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_20201110T190013_20201110T190014_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_20201110T194451_20201110T195150_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_20201110T210949_20201110T211137_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_20201110T212554_20201110T213027_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_20201110T215623_20201110T215745_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_20201110T221943_20201110T222035_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_20201110T222924_20201110T223105_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_20201110T233735_20201110T234002_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: 162

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.

122

Number of products with errors: 60

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	189	189	5	184	0
SIR_NOPR1B	92	92	0	92	0
SIR_NOPN1B	96	96	1	95	0
SIR_NOPM_2	189	189	136	47	6
SIR_NOPR_2	92	92	29	57	6
SIR_NOPN_2	96	96	37	57	2

7.1 QCC Errors

Number of QCC reports with errors:

21

Total number of occurrences of each error

Product Type	EOVSNCDF	MPHSVSNCDF	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	•	-
SIR_NOPM_2	6	6	0	0	0	0					
SIR_NOPN_2	2	2	0	0	0	0					
SIR_NOPR_2	2	2	4	4	4	4					

Test Description Key:	est 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

1656

Total number of occurrences of each warning

rotal number of occurrences of each warning							
Product Type	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD
SIR_NOPM1B	184	0	0	0	0	0	0
SIR_NOPM_2	0	0	39	38	0	39	0
SIR_NOPN1B	95	0	0	0	0	0	0
SIR_NOPN_2	0	0	9	30	6	22	23
SIR_NOPR1B	87	0	0	0	0	0	0
SIR_NOPR_2	0	4	38	43	0	36	28

Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNC	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	36	1	32	0	0	0	0
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	19	1	0	0	22	0	32
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	17	4	0	44	0	51	0

Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	24	0	0	4	26	0	5
SIR_NOPN1B	0	0	0	0	0	0	0
SIR_NOPN_2	0	0	28	16	40	45	23
SIR_NOPR1B	0	0	0	0	0	0	0
SIR_NOPR_2	0	41	0	0	53	38	4

Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	RSWHOEPNCDF	SPHRTASCNSNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF
SIR_NOPM1B	0	0	0	0	0	0	0
SIR_NOPM_2	32	0	3	0	0	0	0
SIR_NOPN1B	0	0	0	1	0	0	42
SIR_NOPN_2	25	26	13	0	1	0	0
SIR_NOPR1B	0	0	0	0	0	0	92
SIR NOPR 2	38	49	1	0	0	6	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				
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean				
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
RPEPOPFDPLRMSAR NCDF	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees				
	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				
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

Number of products with missing QCC reports: