

1. Overview

Report Production:	13-Feb-2023		
Processor Used:	CryoSat Ocean Processor		
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data		

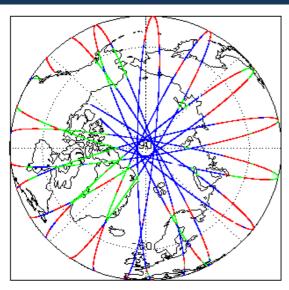
We would love to hear from you!

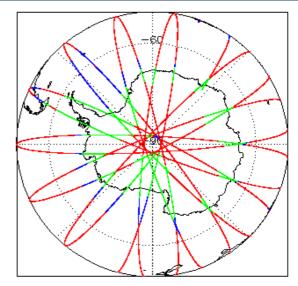
Please let us know your feedback about these daily quality reports: What do you like/ dislike? What quality information do you need? Send your feedback to cs2_qc_team@telespazio.com

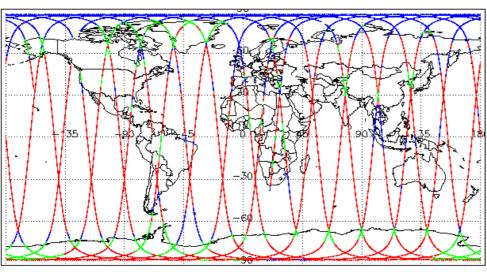
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
QCC Error/ Warning Check	See Section 7.1 and 7.2	See Section 7.1, 7.2

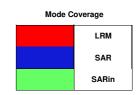
Mission /	nstrument News
08-Feb-2	123 None
09-Feb-2	None
10-Feb-2	Nothing planned

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

4. IOP 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 NetCDF product file (.nc).

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.

Number of products with errors:

0

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

0

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

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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 IOPR products due to a configuration issue. The attitude correction is actually not missing. This will be resolved in the next SW undate.

Number of products with errors:

 Product
 Test Failed
 Description

 CS_OFFL_SIR_IOPM1B_20230209T084632_20230209T091504_C001
 Power scaling error
 There is an error in the scaling of the L1B waveform for one or more records

 CS_OFFL_SIR_IOPM1B_20230209T140629_20230209T141203_C001
 Power scaling error
 There is an error in the scaling of the L1B waveform for one or more records

4.6 L1B Waveform Group Data Check

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

19

Loss of Echo Flag: This flag is currently set for products over land, but this is to be expected. The table provides the full list of products flagged.

Number of products with errors:

Product	Test Failed	Description
CS OFFL SIR IOPM1B 20230209T040006 20230209T041307 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPM1B 20230209T112809 20230209T113356 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPM1B 20230209T220028 20230209T222841 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T033551 20230209T034003 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T051743 20230209T052014 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T065408 20230209T065629 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T113449 20230209T113647 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T150547 20230209T150704 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T160039 20230209T160222 C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T164031 20230209T164429 C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230209T164449_20230209T164617_C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPN1B 20230209T182055 20230209T182509 C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20230209T213143_20230209T213340_C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPR1B 20230209T052225 20230209T052511 C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230209T114641_20230209T114707_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230209T131807_20230209T131911_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230209T181740_20230209T181954_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230209T184610_20230209T185332_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20230209T233107_20230209T233312_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP 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 NetCDF product file (.nc).

Number of products with errors:

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5.2 L2 Product Header Analysis

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

Number of products with errors:

0

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.

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > Mean Sea Surface: The error value is currently set for products over land and sea ice, but this is to be expected.

Number of products with errors:

57

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230209T082449_20230209T082507_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T005911_20230209T010037_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)
CS_OFFL_SIR_IOPN_2_20230209T010548_20230209T010851_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20230209T023933_20230209T024233_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T024451_20230209T025009_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)
CS_OFFL_SIR_IOPN_2_20230209T033551_20230209T034003_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Ocean Tide	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1) and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20230209T041928_20230209T042203_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)
CS_OFFL_SIR_IOPN_2_20230209T051444_20230209T051558_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) Mean Dynamic Topography (1), Total	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T051743_20230209T052014_C001	Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20230209T055431_20230209T060028_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T065408_20230209T065629_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T065700_20230209T065849_C001	Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Equilibrium Long Period Ocean Tide	There is an error with the Total Geocentric Ocean Tide height (solution 1: GOT and 2: FES) and the Non-equilibrium Long Period Ocean Tide height for one or more records
CS_OFFL_SIR_IOPN_2_20230209T073646_20230209T073837_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)
CS_OFFL_SIR_IOPN_2_20230209T083347_20230209T083825_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T091626_20230209T091803_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T105616_20230209T110003_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T113449_20230209T113647_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T123552_20230209T123908_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)
CS_OFFL_SIR_IOPN_2_20230209T124420_20230209T124543_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T132648_20230209T132735_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)
CS_OFFL_SIR_IOPN_2_20230209T150547_20230209T150704_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)
CS_OFFL_SIR_IOPN_2_20230209T164031_20230209T164429_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T173902_20230209T174517_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)
CS_OFFL_SIR_IOPN_2_20230209T182055_20230209T182509_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)
CS_OFFL_SIR_IOPN_2_20230209T191820_20230209T192142_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T195941_20230209T200331_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)
CS_OFFL_SIR_IOPN_2_20230209T205924_20230209T210038_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T213143_20230209T213340_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T223829_20230209T223949_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20230209T231624_20230209T231747_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_IOPN_2_20230209T233707_20230209T233725_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230209T000951_20230209T001643_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)
CS_OFFL_SIR_IOPR_2_20230209T001643_20230209T001953_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)
CS_OFFL_SIR_IOPR_2_20230209T014828_20230209T015543_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)
CS_OFFL_SIR_IOPR_2_20230209T015543_20230209T015811_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)
CS_OFFL_SIR_IOPR_2_20230209T033013_20230209T033438_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)
CS_OFFL_SIR_IOPR_2_20230209T033438_20230209T033551_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)
CS_OFFL_SIR_IOPR_2_20230209T050812_20230209T051309_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)
CS_OFFL_SIR_IOPR_2_20230209T051309_20230209T051444_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)
CS_OFFL_SIR_IOPR_2_20230209T062455_20230209T063018_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230209T064758_20230209T065408_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)
CS_OFFL_SIR_IOPR_2_20230209T082932_20230209T083346_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)
CS_OFFL_SIR_IOPR_2_20230209T100346_20230209T101431_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)
CS_OFFL_SIR_IOPR_2_20230209T114711_20230209T115517_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)
CS_OFFL_SIR_IOPR_2_20230209T131911_20230209T132359_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230209T132735_20230209T133801_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)
CS_OFFL_SIR_IOPR_2_20230209T150705_20230209T151431_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)
CS_OFFL_SIR_IOPR_2_20230209T164617_20230209T165138_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)
CS_OFFL_SIR_IOPR_2_20230209T182509_20230209T182604_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)
CS_OFFL_SIR_IOPR_2_20230209T182604_20230209T183216_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)
CS_OFFL_SIR_IOPR_2_20230209T200332_20230209T200849_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)
CS_OFFL_SIR_IOPR_2_20230209T214025_20230209T214922_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)
CS_OFFL_SIR_IOPR_2_20230209T231953_20230209T232616_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)
CS_OFFL_SIR_IOPR_2_20230209T232616_20230209T232933_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)
CS_OFFL_SIR_IOPR_2_20230209T233107_20230209T233312_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230209T233652_20230209T233706_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20230209T233725_20230209T233841_C001	Mean Dynamic Topography (1)	There is an error with 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:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230209T084632_20230209T091504_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM_2_20230209T140629_20230209T141203_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20 Hz)

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:

88

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20230208T233210_20230209T000556_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_IOPM_2_20230209T002526_20230209T002659_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_IOPM_2_20230209T004400_20230209T005911_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_IOPM_2_20230209T010037_20230209T010548_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_IOPM_2_20230209T011107_20230209T013403_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_IOPM_2_20230209T013518_20230209T014613_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_IOPM_2_20230209T015811_20230209T015824_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_IOPM_2_20230209T015950_20230209T020011_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_IOPM_2_20230209T021552_20230209T023817_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_IOPM_2_20230209T024233_20230209T024451_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_IOPM_2_20230209T025135_20230209T032157_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_IOPM_2_20230209T034044_20230209T035937_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_IOPM_2_20230209T040006_20230209T041307_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_IOPM_2_20230209T042536_20230209T042903_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_IOPM_2_20230209T043035_20230209T044625_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_IOPM_2_20230209T044828_20230209T045749_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_IOPM_2_20230209T051558_20230209T051742_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_IOPM_2_20230209T052045_20230209T052225_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_IOPM_2_20230209T052511_20230209T053708_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_IOPM_2_20230209T060028_20230209T060324_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_IOPM_2_20230209T060333_20230209T060805_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_IOPM_2_20230209T061003_20230209T062455_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_IOPM_2_20230209T063345_20230209T063456_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_IOPM_2_20230209T070326_20230209T070915_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_IOPM_2_20230209T071159_20230209T073613_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_IOPM_2_20230209T073837_20230209T074706_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_IOPM_2_20230209T074915_20230209T081513_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_IOPM_2_20230209T084632_20230209T091504_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_IOPM_2_20230209T092758_20230209T095508_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_IOPM_2_20230209T100118_20230209T100346_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_IOPM_2_20230209T102125_20230209T105411_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_IOPM_2_20230209T110706_20230209T111328_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_IOPM_2_20230209T111833_20230209T112239_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_IOPM_2_20230209T115900_20230209T123346_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_IOPM_2_20230209T123908_20230209T124420_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_IOPM_2_20230209T124602_20230209T130544_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_IOPM_2_20230209T130841_20230209T131440_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_IOPM_2_20230209T133801_20230209T140618_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_IOPM_2_20230209T140629_20230209T141203_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_IOPM_2_20230209T141710_20230209T141909_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_IOPM_2_20230209T141915_20230209T142330_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_IOPM_2_20230209T142528_20230209T145258_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_IOPM_2_20230209T145429_20230209T150127_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_IOPM_2_20230209T151517_20230209T151547_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_IOPM_2_20230209T151922_20230209T152017_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_IOPM_2_20230209T152107_20230209T153010_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_IOPM_2_20230209T153326_20230209T153539_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_IOPM_2_20230209T153551_20230209T154253_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_IOPM_2_20230209T154409_20230209T155116_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_IOPM_2_20230209T155247_20230209T155809_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T155815_20230209T155821_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T155827_20230209T160038_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T160919_20230209T161954_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have b set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T162322_20230209T163214_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have b set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T163341_20230209T163543_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fland the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T163728_20230209T164018_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T170240_20230209T171245_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fla and the OCOG Altimeter Range and Backscatter Quality Flags have be set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T171448_20230209T171728_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have t set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T172321_20230209T173017_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T173214_20230209T173709_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T174517_20230209T174916_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality FI and the OCOG Altimeter Range and Backscatter Quality Flags have to set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T180313_20230209T181225_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have I set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T185332_20230209T190931_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T191154_20230209T191638_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T192222_20230209T194951_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T202253_20230209T204918_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T205142_20230209T205539_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T210145_20230209T212923_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have I set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T215805_20230209T220022_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T220028_20230209T222841_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have I set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T223009_20230209T223453_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T223458_20230209T223829_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been for one or more records
CS_OFFL_SIR_IOPM_2_20230209T224106_20230209T231623_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have t set for one or more records
CS_OFFL_SIR_IOPM_2_20230209T233841_20230209T233906_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have beer for one or more records
CS_OFFL_SIR_IOPN_2_20230209T000635_20230209T000950_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Fl and the OCOG Altimeter Range and Backscatter Quality Flags have t set for one or more records

CS_OFFL_SIR_IOPN_2_20230209T114155_20230209T114317_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_IOPN_2_20230209T115517_20230209T115640_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_IOPN_2_20230209T150547_20230209T150704_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_IOPN_2_20230209T200849_20230209T200914_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_IOPN_2_20230209T213143_20230209T213340_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_IOPR_2_20230209T023817_20230209T023933_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_IOPR_2_20230209T033438_20230209T033551_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_IOPR_2_20230209T110703_20230209T110705_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_IOPR_2_20230209T131440_20230209T131600_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_IOPR_2_20230209T132735_20230209T133801_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_IOPR_2_20230209T151605_20230209T151612_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_IOPR_2_20230209T165205_20230209T165314_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_IOPR_2_20230209T174916_20230209T175128_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 (20 Hz 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.

83

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20230209T000635_20230209T000950_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_IOPN_2_20230209T002040_20230209T002130_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_IOPN_2_20230209T002659_20230209T002710_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_IOPN_2_20230209T003618_20230209T003802_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_IOPN_2_20230209T005911_20230209T010037_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_IOPN_2_20230209T021507_20230209T021552_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_IOPN_2_20230209T024451_20230209T025009_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_IOPN_2_20230209T032918_20230209T033013_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_IOPN_2_20230209T033551_20230209T034003_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_IOPN_2_20230209T041928_20230209T042203_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_IOPN_2_20230209T042400_20230209T042536_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_IOPN_2_20230209T045750_20230209T050125_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_IOPN_2_20230209T051743_20230209T052014_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_IOPN_2_20230209T053708_20230209T054108_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_IOPN_2_20230209T060805_20230209T060949_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_IOPN_2_20230209T065700_20230209T065849_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_IOPN_2_20230209T070203_20230209T070326_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_IOPN_2_20230209T081513_20230209T081853_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_IOPN_2_20230209T083347_20230209T083825_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_IOPN_2_20230209T092507_20230209T092757_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_IOPN_2_20230209T105616_20230209T110003_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_IOPN_2_20230209T110548_20230209T110702_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_IOPN_2_20230209T112239_20230209T112614_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_IOPN_2_20230209T112630_20230209T112809_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_IOPN_2_20230209T113449_20230209T113647_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_IOPN_2_20230209T114155_20230209T114317_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_IOPN_2_20230209T130544_20230209T130841_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_IOPN_2_20230209T141308_20230209T141710_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_IOPN_2_20230209T142330_20230209T142437_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_IOPN_2_20230209T164031_20230209T164429_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_IOPN_2_20230209T165914_20230209T170240_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_IOPN_2_20230209T173030_20230209T173214_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_IOPN_2_20230209T173902_20230209T174517_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_IOPN_2_20230209T182055_20230209T182509_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_IOPN_2_20230209T195732_20230209T195855_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_IOPN_2_20230209T195941_20230209T200331_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_IOPN_2_20230209T201847_20230209T202015_C001 OCG Altimeter Range Quality PLRM, OCG Backscatter Quality PLRM, OCG Backscatter Quality PLRM, OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM OCG Altimeter Range and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20230209T213143_20230209T213340_C001 CS_OFFL_SIR_IOPN_2_20230209T213143_20230209T213340_C001 OCG Altimeter Range Quality PLRM, OCG Backscatter Quality PLRM, OCG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCG Altimeter Range and Backscatter Quality PLRM Set for one or more records	evality Flags s have been set for one or set for one or
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM CS_OFFL_SIR_IOPN_2_20230209T213143_20230209T213340_C001 CS_OFFL_SIR_IOPN_2_20230209T235403_20230209T235525_C001 CS_OFFL_SIR_IOPR_2_20230209T001643_20230209T001953_C001 and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Backscatter Quality PLRM, OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been somore records CS_OFFL_SIR_IOPR_2_20230209T2035403_20230209T001953_C001 CS_OFFL_SIR_IOPR_2_20230209T001643_20230209T001953_C001 And Backscatter Quality PLRM, OCOG Range and Backscatter Quality Flags have been somore records The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range Altimete	set for one or set for one or duality Flags
CS_OFFL_SIR_IOPN_2_20230209T235403_20230209T235525_C001 CS_OFFL_SIR_IOPN_2_20230209T235403_20230209T235525_C001 CS_OFFL_SIR_IOPR_2_20230209T001643_20230209T001953_C001 CS_OFFL_SIR_IOPR_2_20230209T001643_20230209T001953_C001 OCOG Altimeter Range Quality PLRM, OCOG Range and Backscatter Quality Flags have been somore records Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags set for one or more records	set for one or
OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM OCOG Backscatter Quality The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocean Altimeter Range and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	uality Flags
and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM In Ocean Altimeter Ra	
O come Allinoidae Borros COLLA CIARLE	
CS_OFFL_SIR_IOPR_2_20230209T002153_20230209T002526_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 PLRM and Backscatter Quality PLRM The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM and Backscatter Quality PLRM	
CS_OFFL_SIR_IOPR_2_20230209T014654_20230209T014710_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality PLRM, more records	set for one or
CS_OFFL_SIR_IOPR_2_20230209T014828_20230209T015543_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been smore records	set for one or
CS_OFFL_SIR_IOPR_2_20230209T023817_20230209T023933_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 set for one or more records	
CS_OFFL_SIR_IOPR_2_20230209T032157_20230209T032553_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 set for one or more records	
CS_OFFL_SIR_IOPR_2_20230209T033013_20230209T033438_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and Backscatter	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality FLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flag	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM OCOG Altimeter Range and Backscatter Quality FLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and Backscatter Qua	
CS_OFFL_SIR_IOPR_2_20230209T044625_20230209T044827_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been some records	set for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality Flags and Backscatter Qualit	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM ocog Altimeter Range and Backscatter Quality Flags and Backscatter Quality Flags.	
CS_OFFL_SIR_IOPR_2_20230209T052225_20230209T052511_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been some records	set for one or
CS_OFFL_SIR_IOPR_2_20230209T055019_20230209T055100_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been smore records	set for one or
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality FLRM CS_OFFL_SIR_IOPR_2_20230209T064758_20230209T065408_C001 Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality Flags and Backscatter Quali	
CS_OFFL_SIR_IOPR_2_20230209T065939_20230209T070203_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 PLRM and Backscatter Quality PLRM	
CS_OFFL_SIR_IOPR_2_20230209T082527_20230209T082750_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been some records	set for one or
CS_OFFL_SIR_IOPR_2_20230209T091504_20230209T091626_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 set for one or more records	
CS_OFFL_SIR_IOPR_2_20230209T095818_20230209T095907_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been smore records	set for one or
CS_OFFL_SIR_IOPR_2_20230209T100346_20230209T101431_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 set for one or more records	
Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	
CS_OFFL_SIR_IOPR_2_20230209T131807_20230209T131911_C001 OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality The OCOG Range and Backscatter Quality Flags have been smore records	set for one or

CS_OFFL_SIR_IOPR_2_20230209T132735_20230209T133801_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_IOPR_2_20230209T141203_20230209T141308_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_IOPR_2_20230209T150705_20230209T151431_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_IOPR_2_20230209T160222_20230209T160540_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_IOPR_2_20230209T162144_20230209T162322_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_IOPR_2_20230209T164617_20230209T165138_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_IOPR_2_20230209T165205_20230209T165314_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_IOPR_2_20230209T173017_20230209T173030_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_IOPR_2_20230209T174916_20230209T175128_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_IOPR_2_20230209T181740_20230209T181954_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_IOPR_2_20230209T182509_20230209T182604_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_IOPR_2_20230209T182604_20230209T183216_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_IOPR_2_20230209T184551_20230209T184607_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_IOPR_2_20230209T184610_20230209T185332_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_IOPR_2_20230209T194951_20230209T195122_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_IOPR_2_20230209T200332_20230209T200849_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_IOPR_2_20230209T200915_20230209T201150_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_IOPR_2_20230209T214025_20230209T214922_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_IOPR_2_20230209T214943_20230209T215213_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_IOPR_2_20230209T231953_20230209T232616_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_IOPR_2_20230209T233107_20230209T233312_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 & 1 Hz PLRM)

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

> 1 Hz and 1 Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

5.8 L2 Ocean Retracking Quality Check

L2 Retracking Flags (20 Hz)

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 over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.

Number of products with errors:

57

L2 Retracking Flags (20 Hz PLRM)

Number of products with errors:

6. IOP L2 Pole-to-Pole Data Quality Check

6.1 P2P 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 NetCDF product file (.nc).

Number of products with errors:

146

6.2 P2P Product Header Analysis

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

Number of products with errors

0

6.3 P2P 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.

Number of products with errors:

Ω

6.4 P2P 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 check.

- > 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. The affected products are not reported in the table below.
- > Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over sea ice, but this is to be expected.
- > 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: 30

Product Test Failed Description There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOP_2__20230208T232540_20230209T001519_C002 Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR IOP 2 20230209T001519 20230209T010455 C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS OFFL SIR IOP 2 20230209T010455 20230209T015433 C001 Tide (FES), Non-Equilibrium Long Period

Topography (solution 1), and tidal corrections for one or more records Ocean Tide Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T015433_20230209T024409_C001 Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR IOP 2 20230209T024409 20230209T033348 C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocear Tide (GOT), Total Geocentric Ocean There is an error with the MSS height (solution 1), the Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T033348_20230209T042324_C001 Topography (solution 1), and tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Perio Ocean Tide There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T042324_20230209T051303_C001 Topography height (solution 1) 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 IOP 2 20230209T051303 20230209T060238 C001 Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period Topography (solution 1), and tidal corrections for one or more records Ocean Tide Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T060238_20230209T065217_C001 Topography (1) Topography height (solution 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_IOP_2__20230209T065217_20230209T074153_C001 Tide (GOT), Total Geocentric Ocean Topography (solution 1), and tidal corrections for one or more records Tide (FES), Non-Equilibrium Long Period Ocean Tide There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS OFFL SIR IOP 2 20230209T074153 20230209T083132 C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T083132_20230209T092108_C001 Topography (1) Topography height (solution 1) Mean Sea Surface (1), Mean Dynamic There is an error with the MSS height (solution 1) and the Mean Dynamic CS OFFL SIR IOP 2 20230209T092108 20230209T101047 C001 Topography height (solution 1) Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T101047_20230209T110023_C001 Topography (1), Total Geocentric Ocea Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: Tide (GOT) 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_IOP_2__20230209T110023_20230209T115002_C001 Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T115002_20230209T123937_C001 Topography (1) Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Mean Sea Surface (1), Mean Dynamic CS_OFFL_SIR_IOP_2__20230209T123937_20230209T132916_C001 Topography (1) Topography height (solution 1)

CS_OFFL_SIR_IOP_2_20230209T132916_20230209T141852_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)
CS_OFFL_SIR_IOP_2_20230209T141852_20230209T150831_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)
CS_OFFL_SIR_IOP_2_20230209T150831_20230209T155807_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)
CS_OFFL_SIR_IOP_2_20230209T155807_20230209T164745_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)
CS_OFFL_SIR_IOP_2_20230209T164745_20230209T173721_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)
CS_OFFL_SIR_IOP_2_20230209T173721_20230209T182700_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)
CS_OFFL_SIR_IOP_2_20230209T182700_20230209T191636_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)
CS_OFFL_SIR_IOP_2_20230209T191636_20230209T200615_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)
CS_OFFL_SIR_IOP_2_20230209T200615_20230209T205551_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)
CS_OFFL_SIR_IOP_2_20230209T205551_20230209T214529_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)
CS_OFFL_SIR_IOP_2_20230209T214529_20230209T223505_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)
CS_OFFL_SIR_IOP_2_20230209T223505_20230209T232444_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 (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20230209T232444_20230210T001420_C002	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)

6.5 P2P Measurement Confidence Data Check

CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220230209T083132_20230209T092108_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOP_220230209T132916_20230209T141852_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20 Hz)

CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. The number of P2P products affected is given below.

Number of products with errors: 29

P2P Quality Flags (20 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected. The number of P2P products affected is given below.

Number of products with errors:

P2P Quality Flags (1 Hz & 1 Hz PLRM)

Since the P2P Quality Flags are copied directly from the L2 Quality Flags, please see Section 5.6 for the number of L2 products affected. The number of P2P products affected is given below.

Number of products with errors: 30

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20 Hz)

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20 Hz 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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 2

P2P Retracking Flags 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 IOPR and IOPN products over sea ice, but this is to be expected.

Number of products with errors: 30

7. IOP 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_IOPM1B	217	217	2	215	0
SIR_IOPR1B	132	103	3	100	0
SIR_IOPN1B	103	132	0	132	0
SIR_IOPM_2	217	217	163	54	0
SIR_IOPR_2	132	103	40	63	0
SIR IOPN 2	103	132	48	83	1

SIR_IOP_P2P		29	<u> </u>					
7.1 QCC Errors								
Number of QCC reports with errors: 10								
Total number of occurrences of each error Product Type RL RL RLOBOPNCDF RL RL - - - - - - - -								
SIR_IOPR_2		1	1	1	1			
SIR_IOP_2_		RLOBOPNCDF 1	RL 1	-	-		-	
Test Description Key:								
	Test name RangeLatitudeOrBlankOP_7NetCDF Latitude should be between -90E7 an			and 90E7				
	RangeLatitude_6			nould be between -90E6 a				
	RangeLatitude_7 RangeLongitudeOrBlank	kOP_7NetCDF		nould be between -90E7 a should be between -180E				
RL	RangeLongitude_6 RangeLongitude_7		Longitude should be between -180E7 and 180E7 Longitude should be between -180E6 and 180E6 Longitude should be between -180E7 and 180E7					
7.2 QCC Warning	gs							
Number of QCC reports	s with warnings	2202	!					
7,11	BCSHNCDF	IOHHMOOR		IVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCI
_	215 0	0	0) 36	0 35	0	0 45	0
	100	0	0		0	0	0	0
SIR_IOPN_2	0	0		10	33	8	31	30
	131 0	0	0) 30	0 35	0	0 32	0 27
		DNET BOTOTO				_ L*		
	RBSZOPOEPNCDF 0	RNELPOTONCDF 0	F R	RPEPOPFDLRMNCDF	0 RPEPOPFDPLRMSARNO	0 0	0	RPEPOPFDSINNCDF 0
SIR_IOPM_2	40	1	3	31	0	0	0	0
	0 23	0	0		0	0 28	0	0 37
	0	0	0		0	0	0	0
SIR_IOPR_2	21	4	0)	37	0	43	0
	RPEPOPLRMNCDF	RPEPOPSARNO		RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	
	0 25	0	0		0	0 23	0	0
	0	0	0		0			
SIR_IOPN_2	•		-	,	U	0	0	0
	0	0	3	32	13	42	46	26
SIR_IOPR1B	0	0 0 34		32)				
SIR_IOPR1B SIR_IOPR_2	0	0 34	3 0 0	32))	13 0 5	42 0 58	46 0 38	26 0 21
SIR_IOPR1B SIR_IOPR_2 Product Type	0	0	3 0 0	32)) RSWHOEPNCDF	13 0	42 0	46 0	26 0
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2	0 0 RSWHOEPFDNCDF 0 32	0 34 RSWHOEPFDPLF	3 0 0 RMNCDF R	32)) RSWHOEPNCDF	13 0 5	42 0 58 SOOHHIFHD 0 0	46 0 38 SCSTODHRNCDF 0 0	26 0 21 SCSTODNCDF
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B	0 0 RSWHOEPFDNCDF 0 32 0	0 34 RSWHOEPFDPLF 0 0 0	3 0 0 0 RMNCDF R 0 0	32 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	13 0 5 SPHRTASCNSNCDF	42 0 58 SOOHHIFHD 0 0	46	26 0 21 SCSTODNCDF
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPR1B	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0	0 34 RSWHOEPFDPLF 0 0 0 0 26 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF 1) 13	13 0 5 SPHRTASCNSNCDF 0 0	42 0 58 SOOHHIFHD 0 0 0 0	46 0 38 SCSTODHRNCDF 0 0 53 0 132	26 0 21 SCSTODNCDF 0 0 1 0 7
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPR1B	0 0 0 RSWHOEPFDNCDF 0 32 0 33	0 34 RSWHOEPFDPLF 0 0 0 0 26	3 0 0 0 0 RMNCDF R 0 0 0 0	RSWHOEPNCDF 1) 13	13 0 5 SPHRTASCNSNCDF 0 0 0	42 0 58 SOOHHIFHD 0 0 0	46 0 38 SCSTODHRNCDF 0 0 0 53 0	26 0 21 SCSTODNCDF 0 0 1
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN_2 SIR_IOPR1B SIR_IOPR1B SIR_IOPR_2 Product Type	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0	0 34 RSWHOEPFDPLF 0 0 0 0 26 0	3 0 0 0 0 0 0 0 0 0 1 1 0 4	RSWHOEPNCDF 1) 13	13 0 5 SPHRTASCNSNCDF 0 0 0	42 0 58 SOOHHIFHD 0 0 0 0	46 0 38 SCSTODHRNCDF 0 0 53 0 132	26 0 21 SCSTODNCDF 0 0 1 0 7 0
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR1B SIR_IOPR2 Product Type SIR_IOP_2	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR	0 34 RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27	3 0 0 0 0 0 0 0 0 0 0 1 1 0 0 4	B2 B3 B4	13 0 5 SPHRTASCNSNCDF 0 0 0 0 1	42 0 58 SOOHHIFHD 0 0 0 0 0 0 2	46 0 38 SCSTODHRNCDF 0 0 53 0 132 0	26 0 21 SCSTODNCDF 0 0 1 0 7 0 CCRBSZOPOEPNCDF
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR1B SIR_IOPR2 Product Type SIR_IOP_2 Product Type	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17	0 34 RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF O O O O O O O O O O O O O	13 0 5 SPHRTASCNSNCDF 0 0 0 0 1 MVIONCDF 6	42 0 58 SOOHHIFHD 0 0 0 0 0 2 RBSZOPOEPFDNCDF 29	46 0 38 SCSTODHRNCDF 0 0 53 0 132 0 RBSZOPOEPFDPLRMN 17	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CCURBSZOPOEPNCDF 29
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR2 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17	0 34 RSWHOEPFDPLF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0 0 0 0 0 4 4 2 2 MSINNCDI R	RSWHOEPNCDF O O O O O O O O O O O O O	13 0 5 SPHRTASCNSNCDF 0 0 0 0 0 1 MVIONCDF 6	42 0 58 SOOHHIFHD 0 0 0 0 0 2 RBSZOPOEPFDNCDF 29	46 0 38 SCSTODHRNCDF 0 0 53 0 132 0 RBSZOPOEPFDPLRMN 17	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CC RBSZOPOEPNCDF 29
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN_2 SIR_IOPN_B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5	0 34 RSWHOEPFDPLF 0 0 0 0 0 26 0 0 40 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	32)) SSWHOEPNCDF))))) 4 MVIOEPNCDF 28 RPEPOPFDSINNCDF 28	13 0 5 SPHRTASCNSNCDF 0 0 0 0 0 1 MVIONCDF 6	### 42	46 0 38 SCSTODHRNCDF 0 0 53 0 132 0 RBSZOPOEPFDPLRMN 17	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CC RBSZOPOEPNCDF 29
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN_2 SIR_IOPN_B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5	0 34 RSWHOEPFDPLF 0 0 0 0 26 0 40	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	13 0 5 SPHRTASCNSNCDF 0 0 0 0 1 0 0 1 1 MVIONCDF 6 RPEPOPSINNCDF 23	### ### ### ### ### ### ### ### ### ##	46 0 38 SCSTODHRNCDF 0 0 53 0 132 0 RBSZOPOEPFDPLRMN 17	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CC RBSZOPOEPNCDF 29
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR_2 SIR_IOPR_2 Product Type SIR_IOP_2	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5	0 34 RSWHOEPFDPLF 0 0 0 0 26 0 40	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	13 0 5 SPHRTASCNSNCDF 0 0 0 0 1 0 0 1 1 MVIONCDF 6 RPEPOPSINNCDF 23	### ### ### ### ### ### ### ### ### ##	46 0 38 SCSTODHRNCDF 0 0 53 0 132 0 RBSZOPOEPFDPLRMN 17	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CC RBSZOPOEPNCDF 29
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key:	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5	0 34 RSWHOEPFDPLF 0 0 0 0 26 0 40	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	13 0 5 SPHRTASCNSNCDF 0 0 0 0 1 0 0 1 1 MVIONCDF 6 RPEPOPSINNCDF 23	### ### ### ### ### ### ### ### ### ##	46 0 38 SCSTODHRNCDF 0 0 53 0 132 0 RBSZOPOEPFDPLRMN 17	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CC RBSZOPOEPNCDF 29
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2	0 0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	0 34 RSWHOEPFDPLF 0 0 0 0 26 0 40 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCE 28	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	13 0 5	### ### ### ### ### ### ### ### ### ##	### 46 0 38 SCSTODHRNCDF	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CC RBSZOPOEPNCDF 29
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN1B SIR_IOPR12 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation	0 0 0 RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	0 34 RSWHOEPFDPLF 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	SPHRTASCNSNCDF O O O O O I MVIONCDF 6 RPEPOPSINNCDF 23 F RSWHOEPNCDF 16	### APPLICATION OF THE PROPERTY OF THE PROPERT	### 46 0 38 SCSTODHRNCDF	26
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN1B SIR_IOPR1B SIR_IOPR2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Test Description Key: Abbreviation BCSHNCDF	RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	0 34	3	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	### ### ##############################	### AGE Comparison of the previous burst counter ### AGE Comparison of the prev	26 0 21 SCSTODNCDF 0 0 1 0 7 0 CCERBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19 - - of 1 Hz samples - 1)
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPN1B SIR_IOPN1B SIR_IOPR1B SIR_IOPR2 Product Type SIR_IOP_2 ONLY Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 ONLY Type SIR_IOP_2 ONLY Type SIR_IOP_2 Product Type SIR_IOP_2 ONLY Type SIR_IOP_2 ONLY Type SIR_IOP_2 ONLY Type SIR_IOP_2 Product Type SIR_IOP_2 ONLY	RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	0 34	3	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	### ASSOCIATION OF THE PROPERTY OF THE PROPERT	### AGE Company ### AGE ### AGE Company ### AGE Compan	26 0 21 SCSTODNCDF 0 0 1 1 0 7 0 CCURBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19 - - - - - - - - - -
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM1B SIR_IOPN_2 SIR_IOPR1B SIR_IOPR2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2 ORDER TYPE SIR_IOP_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2 ORDER TYPE SIR_IOP_2 Froduct Type SIR_IOP_2 ORDER TYPE SIR_IOP_2 Froduct Type SIR_IOP_2 ORDER TYPE SIR_IOP_2 Froduct Type SIR_IOP_2 Froduct Type SIR_IOP_2 ORDER TYPE SIR_IOP_2 Froduct Ty	O O O O O O O O O O O O O O O O O O O	RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCE 28 - NetCDF bingOutOfRange xcludingPolarFD2NetCDF	3	RSWHOEPNCDF ASWHOEPNCDF BANK AND ASSESSED ASSE	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	### APPLICATION OF THE PROPERTY OF THE PROPERT	### AGE Company ### AGE ### AGE Company ### AGE Compan	26 0 21 SCSTODNCDF 0 0 1 1 0 7 0 CCURBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19 - - - - - - - - - -
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SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN_2 SIR_IOPN_2 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 WIGHT Type SIR_IOP_2 Product Type SIR_IOP_2 P	O O O O O O O O O O O O O O O O O O O	RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCD 28 - Indicate the second of the seco	3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF RPEPOPFDSINNCDF RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	### SOOHHIFHD SOOHHIFHD O	RESZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CURBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM_2 SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN_2 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2	RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23 - Long the strength of t	RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCE 28	3	RSWHOEPNCDF O AVIOEPNCDF REPEPOPFDSINNCDF REPEPOPFDSINNCDF RSWHOEPFDPLRMNCD TO TO TO TO TO TO TO TO TO T	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	### APPLICATION OF THE PRINCE OF SHOULD BE ADMINISTRATED OF SHOULD BE APPLICATION OF SHOULD BE ADMINISTRATED OF SHOULD BE ADMINIS	### AGE ### AG	26 0 21 SCSTODNCDF 0 0 1 0 7 0 CCCRBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19
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SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_1 Product Type SIR_IOP_1 Product Type SIR_IOP_2 Product Type SIR_IOP_1 Product Type SIR_IOP_1 Product Type SIR_IOP_2 Product Ty	RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23 - IndexOf1Hzin20HzMapp MissingValueIntOceanE MissingValueIntOceanE MissingValueIntOceanE MissingValueIntOceanE RangeBackscatterSigma	RSWHOEPFDPLF 0 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCI 28	3	RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF RSWHOEPFDFINNCDF RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	### SOOHHIFHD SOOHHIFHD O	SCSTODHRNCDF 0 0 132 0 132 0 RBSZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	26 0 21 SCSTODNCDF 0 0 1 0 7 0 CCIRBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN_2 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 REST Description Key: Abbreviation BCSHNCDF WVIOEPRDCDF WVIOEPRDCDF WVIOEPRDCDF RESZOPOEPFDNCDF RESZOPOEPFDNCDF RESZOPOEPFDPLRM NCDF RESZOPOEPFDNCDF	RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23 - IOHHMOOR MissingValueIntOceanE	RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCE 28	RRMNCDF R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF RSWHOEPFDFINNCDF RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	SOOHHIFHD O O O O O O O O O O O O O O O O O O	SCSTODHRNCDF 0 0 132 0 132 0 RBSZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 7 0 RSSHAOFDPLRMNCDF 19
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN_2 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 RESTOR Type RESTOR Type RESTOR TYPE RE	RSWHOEPFDNCDF 0 32 0 32 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	RSWHOEPFDPLF 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCD 28	RMNCDF R 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF REPEPOPFDSINNCDF RRSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPF	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	### SOOHHIFHD O	SCSTODHRNCDF 0 0 132 0 132 0 RBSZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CCERBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN1B SIR_IOPR_2 Product Type SIR_IOP_2 PRODUCT Type SIR_IOP_1 PRODUCT Ty	RSWHOEPFDNCDF 0 32 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	RSWHOEPFDPLF 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCD 28	RMNCDF R 0 0 0 0 0 1 1 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF RSWHOEPNCDF RSWHOEPNCDF REPEPOPFDSINNCDF RRSWHOEPFDPLRMNCD RSWHOEPFDPLRMNCD RSWHOEPF	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	SOOHHIFHD O O O O O O O O O O O O O O O O O O	SCSTODHRNCDF O O S38 SCSTODHRNCDF O O S3 O 132 O RESZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 7 0 CURBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN1B SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_1	RSWHOEPFDNCDF 0 32 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	RSWHOEPFDPLF 0 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCE 28	ASINNCDIR ASINNCDIR ASINNCDIR CDF IngPolarFD2 ingPolarNett etCDF SARNetCDF	RSWHOEPNCDF ASWHOEPNCDF ASWHOEPNCDF ASSWHOEPNCDF ASSWHOEPSINNCDF ASSW	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	SOOHHIFHD O O O O O O O O O O O O O O O O O O	SCSTODHRNCDF O O S38 SCSTODHRNCDF O O S3 O 132 O RESZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 CCIRBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN1B SIR_IOPR_2 Product Type SIR_IOP_2 Product Type SIR_IOP_1 Product Ty	RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCD 28	RMNCDF R 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF ASWHOEPNCDF ASSWHOEPNCDF ASSWHOEPSINNCDF ASSW	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	SOOHHIFHD O O O O O O O O O O O O O O O O O O	SCSTODHRNCDF 0 0 132 0 132 0 RBSZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	26 0 21 SCSTODNCDF 0 0 1 0 7 0 0 7 0 CURBSZOPOEPNCDF 29 RSSHAOFDPLRMNCDF 19
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN1B SIR_IOPR_2 SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOP_2 PRODUCT Type SIR_IOP_1 PRODUCT Type	RSWHOEPFDNCDF 0 32 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23	RSWHOEPFDPLF 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCI 28	RMNCDF R 0 0 0 0 0 1 1 1 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF ASWHOEPNCDF ASSWHOEPNCDF ASSWHOEPSINNCDF ASSW	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	SOOHHIFHD O O O O O O O O O O O O O O O O O O	SCSTODHRNCDF 0 0 132 0 132 0 132 0 RBSZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	SCSTODNCDF O O O O O O O O O O O O O O O O O O
SIR_IOPR1B SIR_IOPR_2 Product Type SIR_IOPM1B SIR_IOPM_2 SIR_IOPM_2 SIR_IOPN1B SIR_IOPR_2 SIR_IOPR_2 SIR_IOPR_2 Product Type SIR_IOP_2 Froduct Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 Product Type SIR_IOP_2 RESTOR Type SIR_IOP_IOP_IOP_IOP_IOP_IOP_IOP_IOP_IOP_IOP	RSWHOEPFDNCDF 0 32 0 33 0 25 IOHHMOOR 17 RNELPOTONCDF 5 RSSHAONCDF 23 - INDER TO	RSWHOEPFDPLF 0 0 0 0 0 26 0 40 MVIOEPFDNCDF 27 RPEPOPFDPLRM 17 RSWHOEPFDNCD 28	RMNCDF R 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	RSWHOEPNCDF ASWHOEPNCDF ASWHOEPNCDF ASSWHOEPNCDF ASSWHOEPSINNCDF ASSW	SPHRTASCNSNCDF O O O O O O O O O O O O O O O O O O	SOOHHIFHD O O O O O O O O O O O O O O O O O O	SCSTODHRNCDF 0 0 132 0 132 0 132 0 RBSZOPOEPFDPLRMN 17 RSSHAOFDNCDF 29	SCSTODNCDF O O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O T O O O T O O O T O

RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD F	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC DF	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start 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:

L1B and L2 Product name

P2P Product name
CS_OFFL_SIR_IOP_2__20230209T232444_20230210T001420_C002