

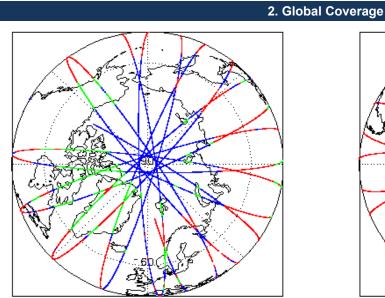
QA4EO Daily Report for IOP data:

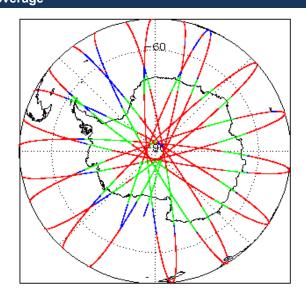
<u>22/02/2021</u>

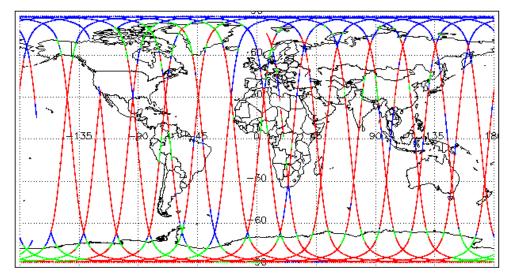
Report Production: 25-Feb-2021		Check	L1 & L2	P2P
eport Production:	25-Feb-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
		Product Software Check	Nominal	Nominal
	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	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

1. Overview

Mission / Instrument News		
21-Feb-2021	None	
22-Feb-2021	None	
23-Feb-2021	AUX file delays due unexpected problems during SSALTO Maintenance on 2021-02-23	











3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

0

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

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 binary product file (.DBL).

Number of products with errors:

or all products, a series of pre-defined checks are performed on the MPH and		
.1B Processing Quality HR: The I1b_proc_flag_hr flag is currently set all L1E DSARIn chains. A modification is required in the next release.	3 IOPR and IOPN products because the	e I1b_processing_quality_hr field is not correctly configured in the OSAR an
lumber of products with errors: 0		
I.3 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre	a determined baseline and also to shos	sk the validity of Auvilian/ Data Files is correct
Aurophysical product is checked for missing Data Set Descriptors with respect to a pre Number of products with errors: 0	p-determined baseline and also to chec	in the validity of Auxiliary Data Flies is correct.
4.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indicates an	ny problems when set.
Number of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measuren	nent record. The bit value of this flag in	dicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR produ	icts due to a configuration issue. This is	s being investigated and will be updated in the next SW update.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210222T033431_20210222T034658_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more
CS_OFFL_SIR_IOPM1B_20210222T111626_20210222T112409_C001	Power scaling error	records There is an error in the scaling of the L1B waveform for one or more
	, , , , , , , , , , , , , , , , , , ,	records There is an error in the scaling of the L1B waveform for one or mor
CS_OFFL_SIR_IOPM1B_20210222T235126_20210222T235210_C001	Power scaling error	records
4.6 L1B Waveform Group Data Check		
CryoSat L1B data includes a waveform data flag for each measurement record	d. The bit value of this flag indicates an	y problems when set.
Loss of Echo Flag: This flag is currently set for products over land, but this is	to be expected.	
Number of products with errors: 16		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20210222T105442_20210222T105614_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20210222T221837_20210222T222018_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T022754_20210222T023027_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T040457_20210222T040917_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T041018_20210222T041127_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T054556_20210222T054736_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T054736_20210222T055025_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T123154_20210222T123300_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T162925_20210222T163104_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T173030_20210222T173119_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T190757_20210222T191301_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20210222T214046_20210222T214216_C001 CS_OFFL_SIR_IOPN1B_20210222T223021_20210222T223343_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_2021022210223021_202102221022304_C001	Loss of Echo	The tracking echo is missing for one or more records
CS OFFL SIR IOPR1B 20210222T054415 20210222T054500 C001	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo	The tracking echo is missing for one or more records
	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001	P Level 2 Data Quality	
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001		
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001 5. IO 5.1 L2 Product Format Check	P Level 2 Data Quality	/ Check
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001 5. IO 5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to e	P Level 2 Data Quality	/ Check
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001 5. IO 5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to e Number of products with errors: 0	P Level 2 Data Quality	/ Check
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001 5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to e Number of products with errors: 0 5.2 L2 Product Header Analysis	P Level 2 Data Quality	r file (.HDR) and a binary product file (.DBL).
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001 5. IO 5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to e Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and	P Level 2 Data Quality	r file (.HDR) and a binary product file (.DBL).
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001 5. IO 5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to e Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and	P Level 2 Data Quality	r file (.HDR) and a binary product file (.DBL).
CS_OFFL_SIR_IOPR1B_20210222T234740_20210222T235004_C001 5. IO 5.1 L2 Product Format Check Each product, retrieved and unpacked from the science server, is checked to e Number of products with errors: 0 5.2 L2 Product Header Analysis For all products, a series of pre-defined checks are performed on the MPH and	P Level 2 Data Quality	r file (.HDR) and a binary product file (.DBL).

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

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

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

Number of products with errors:

Product	Test Failed	Description
		There is an error with the Dynamic Atmospheric Correction for one or more
All IOPM_2_ products from 2021/02/22 12:11:28 until 2021/02/23 00:00:55	Dynamic Atmospheric Correction	records
CS_0FFL_SIR_IOPM_2_20210222T173939_20210222T174926_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T000108_20210222T000423_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_20210222T000936_20210222T001055_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T005208_20210222T005237_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPN_2_20210222T014844_20210222T014956_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_20210222T022754_20210222T023027_C001	Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non- Fouilibrium Long Period Ocean Tide	There is an error with the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT and solution 2: FES) and the Non-Equilibrium Long Period Ocean Tide for one or more records
CS_OFFL_SIR_IOPN_2_20210222T023056_20210222T023218_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_20210222T040457_20210222T040917_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20210222T041018_20210222T041127_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_20210222T050420_20210222T050653_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_20210222T054556_20210222T054736_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T054736_20210222T055025_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_20210222T064331_20210222T064702_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_20210222T072457_20210222T072848_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_20210222T082440_20210222T082623_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T113348_20210222T113511_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T114038_20210222T114351_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T123154_20210222T123300_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
All IOPN_2_ products from 2021/02/22 12:31:54 until 2021/02/22 23:57:25	Dynamic Atmospheric Correction	There is an error with the Dynamic Atmospheric Correction for one or more records
CS_OFFL_SIR_IOPN_2_20210222T131937_20210222T132257_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_20210222T145412_20210222T145649_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_20210222T163142_20210222T163545_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_20210222T172843_20210222T172948_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_20210222T181144_20210222T181339_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T182200_20210222T182348_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T190757_20210222T191301_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES) Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records
CS_OFFL_SIR_IOPN_2_20210222T195118_20210222T195236_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPN_2_20210222T213244_20210222T213444_C001	Mean Sea Surrace (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records

CS_OFFL_SIR_IOPN_2_20210222T231032_20210222T231353_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_20210222T231918_20210222T232036_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210222T005237_20210222T010325_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_20210222T023218_20210222T023425_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_20210222T023425_20210222T023956_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_20210222T041128_20210222T041649_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_20210222T050653_20210222T050910_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20210222T055026_20210222T055725_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_20210222T061102_20210222T061918_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210222T072848_20210222T073353_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_20210222T090552_20210222T091426_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_20210222T104502_20210222T105236_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_20210222T105614_20210222T105813_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210222T110152_20210222T110338_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
All IOPR_2_ products from 2021/02/22 12:08:43 until 2021/02/22 23:56:18	Dynamic Atmospheric Correction	There is an error with the Dynamic Atmospheric Correction for one or more records
CS_OFFL_SIR_IOPR_2_20210222T122009_20210222T123030_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_20210222T123030_20210222T123154_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_20210222T140238_20210222T140930_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_20210222T140930_20210222T141513_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_20210222T154215_20210222T154820_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_20210222T154820_20210222T154927_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_20210222T163104_20210222T163142_C001	Mean Sea Surface (1)	There is an error with the MSS height (solution 1) for one or more records
CS_OFFL_SIR_IOPR_2_20210222T172216_20210222T172304_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210222T172415_20210222T172620_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_20210222T172620_20210222T172843_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_20210222T190208_20210222T190757_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_20210222T204312_20210222T204818_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_20210222T221112_20210222T221209_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210222T221708_20210222T221836_C001	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records
CS_OFFL_SIR_IOPR_2_20210222T222018_20210222T223021_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)

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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210222T033431_20210222T034658_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

Power scaling error Power scaling error

There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Number of products with errors:	

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20210222T000423_20210222T000936_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_20210222T001116_20210222T001425_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_20210222T001451_20210222T003045_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_20210222T004651_20210222T004724_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_20210222T010325_20210222T011231_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_20210222T011421_20210222T013108_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_20210222T013119_20210222T013734_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_20210222T014241_20210222T014424_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_20210222T014431_20210222T014843_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_20210222T015049_20210222T021256_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_20210222T021329_20210222T022616_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_20210222T022616_20210222T022713_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_20210222T024459_20210222T025842_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_20210222T030121_20210222T030945_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_20210222T030957_20210222T031635_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_20210222T032330_20210222T032336_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_20210222T033431_20210222T034658_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_20210222T034808_20210222T040104_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_20210222T040122_20210222T040457_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_20210222T042744_20210222T043754_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_20210222T043957_20210222T045534_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_0FFL_SIR_IOPM_2_20210222T045727_20210222T050223_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_20210222T050300_20210222T050419_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_0FFL_SIR_IOPM_2_20210222T051112_20210222T051637_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_20210222T052827_20210222T052839_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_20210222T052847_20210222T054013_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_20210222T060941_20210222T061102_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_20210222T061918_20210222T063436_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_20210222T063700_20210222T064137_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_20210222T064738_20210222T071058_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_20210222T071100_20210222T071458_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_20210222T074519_20210222T074617_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_20210222T074830_20210222T080853_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_20210222T080945_20210222T081429_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_20210222T081707_20210222T082052_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_20210222T082703_20210222T085436_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_20210222T092706_20210222T095350_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_20210222T095514_20210222T100007_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_20210222T100645_20210222T104145_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_20210222T105442_20210222T105614_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_20210222T112656_20210222T112820_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_20210222T113020_20210222T113328_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_20210222T113511_20210222T114038_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_20210222T121128_20210222T122008_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_20210222T123325_20210222T123603_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_20210222T124400_20210222T124943_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_20210222T125239_20210222T131224_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_20210222T131436_20210222T131936_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_20210222T132504_20210222T135833_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_20210222T142418_20210222T144713_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_20210222T145026_20210222T145043_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_20210222T145649_20210222T145842_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_20210222T150521_20210222T151240_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_20210222T151243_20210222T152120_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_20210222T152122_20210222T152305_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_20210222T152746_20210222T153605_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_20210222T155047_20210222T155334_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_20210222T155523_20210222T161145_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_20210222T161359_20210222T162838_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_20210222T163842_20210222T164258_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_20210222T164433_20210222T165707_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_20210222T165709_20210222T170010_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_20210222T170210_20210222T171131_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_20210222T173939_20210222T174926_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_20210222T175607_20210222T181106_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_20210222T181339_20210222T182200_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_20210222T182403_20210222T184109_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_20210222T184330_20210222T184541_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_20210222T192258_20210222T192625_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_20210222T192632_20210222T195011_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_20210222T195521_20210222T200023_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_20210222T200259_20210222T202825_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_20210222T210037_20210222T212908_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_20210222T213444_20210222T214046_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_20210222T214217_20210222T221031_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_20210222T221837_20210222T222018_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_20210222T223343_20210222T230800_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_20210222T231354_20210222T231918_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_20210222T232052_20210222T232712_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_20210222T235725_20210223T000055_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_20210222T000108_20210222T000423_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_20210222T013826_20210222T014241_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_20210222T050910_20210222T051038_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_20210222T073354_20210222T073432_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_20210222T082108_20210222T082114_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_20210222T164258_20210222T164432_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_20210222T235633_20210222T235725_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_20210222T024122_20210222T024314_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_20210222T080853_20210222T080945_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_20210222T122009_20210222T123030_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_20210222T124208_20210222T124359_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_20210222T173751_20210222T173850_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_20210222T222018_20210222T223021_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

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Number of	products	with	errors:

Product	Test Failed	Description
	0 1	The OCOG Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20210222T005208_20210222T005237_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 OFFE SIR TOPN 2 202102221022754 202102221023027 CO01		The OCOG Range and Backscatter Quality Flags have been set for one or more records.

CS_OFFL_SIR_IOPN_2_20210222T040457_20210222T040917_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_20210222T041018_20210222T041127_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_20210222T042435_20210222T042639_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_20210222T052336_20210222T052826_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_20210222T052839_20210222T052847_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_20210222T054122_20210222T054245_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_20210222T054556_20210222T054736_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_20210222T054736_20210222T055025_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_20210222T063446_20210222T063700_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_20210222T072457_20210222T072848_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_20210222T074617_20210222T074830_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_20210222T081439_20210222T081707_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_20210222T100343_20210222T100526_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_20210222T104145_20210222T104302_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_20210222T111536_20210222T111625_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_20210222T113348_20210222T113511_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_20210222T123154_20210222T123300_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_20210222T124109_20210222T124207_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_20210222T124943_20210222T125239_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_20210222T131937_20210222T132257_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_20210222T145412_20210222T145649_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_20210222T145842_20210222T150509_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_20210222T155334_20210222T155450_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_20210222T171131_20210222T171306_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_20210222T172200_20210222T172216_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_20210222T173030_20210222T173119_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_20210222T173308_20210222T173514_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, 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_20210222T175100_20210222T175607_C001	PLRM 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_20210222T184842_20210222T185230_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_20210222T190757_20210222T191301_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_20210222T214046_20210222T214216_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_20210222T223021_20210222T223343_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_20210222T231918_20210222T232036_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_20210222T004304_20210222T004321_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_20210222T004927_20210222T005207_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_20210222T005237_20210222T010325_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_20210222T022713_20210222T022754_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_20210222T023425_20210222T023956_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_20210222T024122_20210222T024314_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_20210222T025843_20210222T030121_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_20210222T032748_20210222T033057_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_20210222T041128_20210222T041649_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_20210222T050653_20210222T050910_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_20210222T055026_20210222T055725_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_20210222T060238_20210222T060246_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_20210222T061102_20210222T061918_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_20210222T071458_20210222T071718_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_20210222T090552_20210222T091426_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_20210222T091448_20210222T091719_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_20210222T104502_20210222T105236_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_20210222T105239_20210222T105442_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_20210222T105614_20210222T105813_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_20210222T122009_20210222T123030_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_20210222T123301_20210222T123325_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_20210222T123802_20210222T123948_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_20210222T140238_20210222T140930_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_20210222T140930_20210222T141513_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_20210222T145044_20210222T145412_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_20210222T153658_20210222T153836_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_20210222T153915_20210222T153916_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_20210222T154215_20210222T154820_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_20210222T154820_20210222T154927_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_20210222T161145_20210222T161359_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_20210222T170010_20210222T170132_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_20210222T172415_20210222T172620_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_20210222T172620_20210222T172843_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_20210222T173119_20210222T173308_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_20210222T173751_20210222T173850_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_20210222T190208_20210222T190757_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_20210222T192139_20210222T192257_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_20210222T195011_20210222T195117_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_20210222T203906_20210222T204104_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_20210222T204312_20210222T204818_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_20210222T222018_20210222T223021_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_20210222T230800_20210222T231031_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_20210222T235007_20210222T235126_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_20210222T235355_20210222T235618_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (1 Hz & 1Hz PLRM)

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

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

La Retracking Flags (2014) Profile Care Actions in communication (1997) In the second of the second of the lag indicates any problem selence. Profile Care Actions in communication (1997) In the second of the second of the second of the lag indicates any problem selence. Profile Care Actions in communication (1997) In the second of t	Number of products with errors: 219		
العراقي المراكبة العراقي المراكبة العراقي العراق العراقي العراقي العراقي العراقي العراقي العراقي العراقي الع	5.8 L2 Ocean Retracking Quality Check		
Space Restance Quality Fage: The sign a careful yes the product over two and scales, but is a to a capacity effect the same of products with any of the sign and any operating operating operating operating operating operatin	L2 Retracking Flags (20Hz)		
Instrument 1 2.1 Section Plane (2004) Plane (2		-	
Participant Participant Control Partit Contro		nd and sea ice, but this is to be expected. The	number of products with this error flag set is given below.
Drage 14 cale balance an enserve relatively query file file and 20-Mit P. Mit measurement excl. The lit or balance and the decision of products 100PB and 10MP products over scales, be the to to corporate Sear Paraching Query File Testing is controlly used file and 10MP products over scales, be the to to corporate Sear Paraching Query File Testing is controlly used file and 10MP products over scales, be the to to corporate Sear ParaChing Query File Testing is controlly used file and 10MP products over scales, be the query file and the decision over an exclusion of fording over product file and the decision over an exclusion of product file and the decision over an exclusion of product file and the decision over an exclusion of product file and the decision over an exclusion of product file and the decision over an exclusion of product file and the decision over an exclusion of product file and the decision over an exclusion of product file and the decision over an exclusion of product file and the decision over an exclusion over an excl			
Booker Bank Dig Margin Plang Pl		M measurement record. The bit value of this fla	an indicates any problems when set
Second product were encoded with a week and product formation the activate server, is checked to strature is consisted of both an XML beader file (LDR) and a MetCOT product file (Lnc). Second product and encode of the activate server, is checked to strature is consisted of both an XML beader file (LDR) and a MetCOT product file (Lnc). Second product server and or product server and the XMM and tRM in order to battery any inconsistence and on one strature ty the ground-acquinest processing on the server and the XMM and tRM in order to battery any inconsistence and one one strature ty the ground-acquinest processing on the XMM and tRM in order to battery any inconsistence and one one strature ty the ground-acquinest processing on the XMM and tRM in order to battery any inconsistence and one one strature ty the ground-acquinest processing on the XMM and tRM in order to battery any inconsistence and one one strature ty the ground-acquinest processing on the XMM and tRM in order to battery any inconsistence and one one strature ty the ground-acquinest processing on the XMM and tRM in order to the output of the XMM and tRM in order to the output of the XMM and transport on the XMM and transport on the XMM and tRM in order to the output of the XMM and transport on the XMM and the output of the XMM and transport on the XMM and the output of the XMM and transport on the XMM and the output of the XMM and the VMM and transport on the XMM and the XMM and the XMM and the XMM and the output of the XMM and the text of the XMM and			
Set P2P Product Format Check The product Format Check The product Format Check The product format Check The product Header Analysis The Product Header Anal			•
Set P2P Product Format Check The product Format Check The product Format Check The product format Check The product Header Analysis The Product Header Anal	6. IOP L:	2 Pole-to-Pole Data Quality	Check
State of products with errors: 0 State of products with errors: <	6.1 P2P Product Format Check		
State of products with errors: 0 State of products with errors: <		ensure it consists of both an XML header file ()	HDR) and a NetCDE product file (nc)
The all products, a series of pre-defined events are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing duals.			
The all products, a series of pre-defined events are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing duals.	6 2 P2P Product Header Analysis		
StarP2 Auxiliary Data File Usage Check Base products with array: 0 StarP2 Auxiliary Data File Usage Check 0 StarP2 Auxiliary Data File Usage Check 0 StarP2 Auxiliary Corrections: University of the products with more: 0 StarP2 Auxiliary Corrections: University of the auxiliary corrections with the Coophysical Group are checked for the default area value (2717): Image: Check Ch	•	d SPH in order to identify any inconsistencies a	und/or orrors raised by the ground segment processing chain
California is the base of products with expect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Set P2P Auxiliary Correction Error Check Set P2P Auxiliary Correction Error Table in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below Parter Diversities: Control in Biolong corrections error or CONTERENT. Lic: Dry Tropospheric Correction, Iwar Table in the Level 2 products were common flags are summarised in the list below. Parter Diversities: Control in Biolong corrections error or CONTERENT. Lic: Dry Tropospheric Correction, Iware Barneche Correction. Set State Diss & Sas State Diss & Sas State Diss & Sas State Diss & Correction. Mean Orsant Corperation: Control in a diversities of products over land and sea low, but this is to be expected. Mean Orsant Corperative: To error value is currently set for products over land and sea low, but this is to be expected. Mean Orsant Corperative: To error value is currently set for products over land and sea low. But this is to be expected. Mean Orsant Corperative land the MSS height (clutton 1) and the Mean Dynamic Tropography (1) Sas OFFL_SIR_IOP_2_20210227100443_20210222100443_20210222100443_20210222100443_20210222100443_20210222100443_20210222100443_20210222100443_20210222100443_20210222100443_20210222100443_2021022210023445_2001 Mean Sea Surface (1			inator errors raised by the ground-segment processing drain.
Number of products with errors: 0 B4 P2P Auxiliary Correction Error Check Set approximation of the set of the default error value (32767). Currently, there are some common auxiliary corrections error railed in the Level 2 products which are expected due to surface type. All common flags are summarised in the list bide values by the abs for the default error value in the list bide values by the abs for the default error value in the list bide values by the abs for the default error value in the list bide values by the abs for the default error value in the list bide values of the default error value in the list bide values of the default error value in currently set for products over land and sea ice, but the is to be expected. • Name Sea Stare Blas S and Stare Blas PLRM. The error value is currently set for products over land and sea ice, but the is to be expected. • Name Sea Stare Blas S and Stare Blas PLRM. The error value is currently set for products over land and sea ice, but the is to be expected. • Name Sea Stare Blas S and Stare Blas PLRM. The error value is currently set for products over land and sea ice, but the is to be expected. • Name Sea Stare Blas S and Stare St	6.3 P2P Auxiliary Data File Usage Check		
B-4 P2P Auxiliary Correction Error Check To all products, the sublary corrections within the Geophysical Group are checked for the default error value (32767). Tarrendly, then are some common auxiliary corrections error raises in the Level 2 products which are expected due to surface type. All common flags are summarised in the list bala observations of the CoNVF model which are expected due to surface type. All common flags are summarised in the list bala observations of the CoNVF model which are expected due to surface type. All common flags are summarised in the list bala observations of the UNIVF model which are expected due to surface type. All common flags are summarised in the list bala observations of the CONVF model which are expected due to surface type. All common flags are summarised in the list bala observation is more than a flags of the CONVF model which are expected. - Some State Blass & State Blass PLRM: The error value is currently set for products over and and sea los, but this is to be expected Mann Spannic Togography: The error value is currently set for products over land and sea los, but this is to be expected Mann Spannic Togography: The error value is currently set for products over land and sea los, but this is to be expected Mann Spannic Togography: The error value is currently set for products over land and sea los, but this is to be expected Mann Spannic Togography: The error value is currently set for products over land and sea los, but this is to be expected Attimuted with arror:	Each product is checked for missing Data Set Descriptors with respect to a pro	e-determined baseline and also to check the va	lidity of Auxiliary Data Files is correct.
For all products, the auxiliary corrections errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below for value (S2707). Currently, there are some common auxiliary corrections errors raised in the Level 2 products which are expected due to surface type. All common flags are summarised in the list below. EXEMPT Madeo Corrections. Currently the following connections are not computed or configuration in the unit of the SCMPT model wind voltor. This is a known anomaly (CRYO-COP-3) and will be resolved in a future IPF update. The affected products or to reported in the table below. • Sea State Bias & State Bias & State Bias VEM. The error value is currently set for products over land and sea loe, but this is to be expected. • Mann Soa Suffice: The error value is currently set for products over land and sea loe, but this is to be expected. • Manner Organization Corrections. The error value is currently set for products over land and sea loe, but this is to be expected. • Attimetic Wind Speed Error: The error value is currently set for products over land and sea loe, but this is to be expected. • Attimetic Wind Speed Error: The error value is currently set for products over land and sea loe, but this is to be expected. • Attimetic Wind Speed Error: The error value is currently set for products over land and sea loe, but this is to be expected. • Attimetic Wind Speed Error: The error value is currently set for products over land and sea loe, but this is to be expected. • Attimetic Wind Speed Error: The error value is currently set for products over land and sea loe, but this is to be ex	Number of products with errors: 0		
Description Description Description Description Control Description Description Description Description Control Description Description Description Description Control Description Description Description Description Part State Description Description Description Description State State State Description De	6.4 P2P Auxiliary Correction Error Check		
Ollowed by a table highlighting any additional issues which may stars from this tea. PEXIWF Make Corrections: Conventions and to compare the convention and the UVMed 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 inclusion at the UVMed and YVMed 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 inclusion at the UVMed and YVMed 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 inclusion at the UVMed and YVMed components of the ECMWF model wind vector. This is a known anomaly (CRYO-COP-3) and will be resolved. • Mean Sea Surface: The error value is currently set for products over land and sea loe, but this is to be expected. • Mannet Topography: The error value is currently set for products over land and sea loe, but this is to be expected. • Mannet Sea Surface: The error value is currently set for products over land and sea loe, but this is to be expected. • Number of products with errors: 20 • So CFL_SIR_IOP_2_20210222100453_20210222100463_C0021 Mean Sea Surface (1). Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) • So CFL_SIR_IOP_2_202102221004540_202102221003452_C001 Mean Sea Surface (1). Mean Dynamic Topography (1), Total Genoentric Coean Tride (GOT), Total Genoentric Coean Trid	For all products, the auxiliary corrections within the Geophysical Group are ch	ecked for the default error value (32767).	
Correction and the U-Wind and Y-Wind components of the ECMWF model wind vector. This is a known anomaly (GRVO-COP-3) and will be resolved in a future IPF update. The affected products or is entered the table below. • See State Blas & See State Blas PLRM: The error value is currently set for products over and and sea ice, but this is to be expected. • Mean Sea Startec : The error value is currently set for products over land and sea ice, but this is to be expected. • Mean Sea Startec : The error value is currently set for products over land and 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 Sea Surface (1), Mean Dynamic Topography (1) Sig_OFFL_SIR_IOP_2_202102217030453_202102227000453_C002 Mean Sea Surface (1), Mean Dynamic Topography (1) Sig_OFFL_SIR_IOP_2_202102227000453_20210222700453_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Sig_OFFL_SIR_IOP_2_20210222700453_20210222703450_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Sig_OFFL_SIR_IOP_2_20210222703450_2021022270346_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Sig_OFFL_SIR_IOP_2_202102227014408_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) Sig_OFFL_SIR_IOP_2_2021022270345_2021022270345_C001 Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Coean Topography (1), Total Geocentric Coean Topo			to surface type. All common flags are summarised in the list below
• A dama Sas Surface: The enror value is currently set for products over land and sea ice, but this is to be expected. • A timetry Wind Speed Enror: The enror value is currently set for products over land and sea ice, but this is to be expected. • A timetry Wind Speed Enror: The enror value is currently set for products over land and sea ice, but this is to be expected. • A timetry Wind Speed Enror: The enror value is currently set for products over land and sea ice, but this is to be expected. • A timetry Wind Speed Enror: The enror value is currently set for products over land and sea ice, but this is to be expected. • Specific SiR_IOP_2_022102211231515_20210222T000453_C002 Mean Sea Surface (1), Mean Dynamic Topography height (colution 1) and the Mean Dynamic Topography (1), Total Geocentric Coertin Coertin Toe is an enror with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Coertin Coertin Toe is an enror with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Coertin Coertin Toe is an enror with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Coertin Coertin Toe is an enror with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Coertin Coertin Toe is an enror with the MSS height (solution 1) and the Mean Dynamic Toe (FES), Non-Equilibrium Long Period Sp.oFFL_SIR_IOP_2_20210222T014285_2021022T032322_C001 Mean Sea Surface (1), Mean Dynamic Toe is an enror with the MSS height (solution 1) and the Mean Dynamic Toe (FES), Non-Equilibrium Long Period Sp.oFFL_SIR_IOP_2_20210222T041259_C0122T04252_C00237_C011 Mean Sea Surface (1), Mean Dynamic Toe Geortin Coertin Coertin Coertin	ionowed by a table highlighting any additional issues which hay arise if		
Near Dynamic Topography: The error value is currently set for products over land and sea ice, but this is to be expected. Attinetic Wind Speed Error: The error value is currently set for products over land and sea ice, but this is to be expected. Venduc Top Carpital State Carpital	> ECMWF Meteo Corrections: Currently the following corrections are not corrections	nputed over CONTINENTAL ICE: Dry Troposp	
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 Topography legit (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography legit (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography legit (solution 1) 25_OFFL_SIR_IOP_2_20210222T006453_20210222T005430_C001 Mean Sea Surface (1). Mean Dynamic Topography legit (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) 25_OFFL_SIR_IOP_2_20210222T006430_20210222T005430_C001 Mean Sea Surface (1). Mean Dynamic Topography (2). Distal Geocentric Oeaan Trefe (FDS). Non-Equilibrium Long Perior Ocean Tde There is an error with the MSS height (solution 1), the Mean Dynamic Topography legit (solution 1). And the Mean Dynamic Topography (2). Distal Geocentric Oeaan Trefe (FDS). Non-Equilibrium Long Perior Ocean Tde There is an error with the MSS height (solution 1), the Mean Dynamic Topography legit (solution 1). And the Mean Dynamic Topography legit (solution	> ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model wir not reported in the table below.	nputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CO	P-3) and will be resolved in a future IPF update. The affected products ar
Number of products with errors: 30 Product Test Failed Description DS_OFFL_SIR_IOP_2_202102217231515_02022700453_C002 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) DS_OFFL_SIR_IOP_2_202102227000453_02010227004480_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) DS_OFFL_SIR_IOP_2_202102227005430_202102271014408_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) Total Geocentric Ocean Tide (FDT) Total Geocentric Ocean Tide (FDT) Total Geocentric Ocean Tide (FDT) Total Geocentric Ocean Tide (FDT). Total Geocentric Ocean Tide (FDS), Non-Equilibrum Long Perior Ocean Tide There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FDS), Non-Equilibrum Long Perior Ocean Tide There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FDS), Non-Equilibrum Long Perior Ocean Tide There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FDS), Non-Equilibrum Long Perior Ocean Tide There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1), and the Mean Dynamic Topography height (so	 ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. Sea State Bias & Sea State Bias PLRM: The error value is currently set for 	nputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CO r products over sea ice, but this is to be expected	P-3) and will be resolved in a future IPF update. The affected products an
Product Test Failed Description SS_OFFL_SIR_IOP_2_20210221T231515_20210222T00453_C002 Man 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) SS_OFFL_SIR_IOP_2_2021022T00453_0210222T004430_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_20210222T004430_20210222T014408_C001 Mean Sea Surface (1), Mean Dynamic Topography (1). Total Geocentric Ocean Title (EGOT), Total Geocentric Ocean Title (EGOT), Total Geocentric Ocean Title (EGOT), Total Geocentric Ocean Topography (1), Total Geocentric Ocean Topography (solution 1), and tidal corrections for one or more records Ocean Title SS_OFFL_SIR_IOP_2_20210222T03345_2021022T03335_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), and tidal corrections for one or more records Ocean Title There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1). Total Geocentric Ocean Title (EGOT), Total Geocentric Ocean Topography (1), Total Geocentric Ocean Title (EGOT), Total Geocentric Ocean There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1). The Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography height (solution 1). The Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography	 > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model wir not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a 	nputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CO r products over sea ice, but this is to be expected nd sea ice, but this is to be expected.	P-3) and will be resolved in a future IPF update. The affected products ar
SB_OFFL_SIR_IOP_2_20210221T231515_20210222T000453_C002 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SB_OFFL_SIR_IOP_2_20210222T00453_0210222T00453_0201 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SB_OFFL_SIR_IOP_2_20210222T005430_20210222T014408_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_20210222T014408_20210222T023345_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_20210222T023345_20210222T023345_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_2021022ZT032322_021022ZT032322_021022ZT032322_021022ZT032322_021022ZT032322_021022ZT03237_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_2021022ZT032322_021022ZT055214_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), and tidal corrections for one or more records Topography (1) SS_OFFL_SIR_IOP_2_2021022ZT055214_2021022ZT055214_C001 Mean Sea Surface (1), Mean Dynamic Topog	 > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products over > Altimetric Wind Speed Error: The error value is currently set for products over 	mputed over CONTINENTAL ICE: Dry Troposp id vector. This is a known anomaly (CRYO-CO r products over sea ice, but this is to be expected nd sea ice, but this is to be expected. ver land and sea ice, but this is to be expected	P-3) and will be resolved in a future IPF update. The affected products ar ed.
SS_OFFL_SIR_IOP_2_2021022100453_0210222100453_002 Topography (1) Topography (1) DS_OFFL_SIR_IOP_2_202102221004435_202102221006430_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_202102221004408_202102221014408_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_202102221014408_202102221023345_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_202102221023345_20210222103345_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_20210222103345_202102221032322_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_202102221032322_02102221050237_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), and tidal corrections for one or more records SS_OFFL_SIR_IOP_2_202102221050237_02102221050237_C001 Mean Sea Surface (1), Mean Dynamic Topography (1) There is an error with the MSS height (solution 1), and the Mean Dynamic Topography (1) SS_OFFL_SIR_IOP_2_202102221052214_C021052214_C001 Mean	 > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products over > Altimetric Wind Speed Error: The error value is currently set for products over 	mputed over CONTINENTAL ICE: Dry Troposp id vector. This is a known anomaly (CRYO-CO r products over sea ice, but this is to be expected nd sea ice, but this is to be expected. ver land and sea ice, but this is to be expected	P-3) and will be resolved in a future IPF update. The affected products ar ed.
S_OFFL_SIR_IOP_2_202102221004433_0100453_01200221004408_0001 Topography (1) Topography (1) Topography height (solution 1) SS_OFFL_SIR_IOP_2_20210222T005430_20210222T014408_0001 Mean Sas Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Nen-Equilibrium Long Perior There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Nen-Equilibrium Long Perior SS_OFFL_SIR_IOP_2_20210222T023345_20210222T032322_001 Mean Sas Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (FES), Nen-Equilibrium Long Perior There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GES), Nen-Equilibrium Long Perior SS_OFFL_SIR_IOP_2_20210222T032322_20210222T041259_C001 Mean Sas Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GES), Non-Equilibrium Long Perior There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (solution 1), and tidal corrections for one or more records Coean Tide (GCT), Total Geocentric Ocean Tide (GCT) SS_OFFL_SIR_IOP_2_20210222T041259_2010222T050237_C001 Mean Sas Surface (1), Mean Dynamic Topography (solution 1), and the Mean Dynamic Topography (solution 1), and the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (GCT) SS_OFFL_SIR_IOP_2_20210222T050237_20210222T055214_20210222T055214_20210222T055214_20210222T055214_20210222T055214_20210222T055214_20210222T05129_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic GOT) for one or	ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model wind not reported in the table below. Sea State Bias & Sea State Bias PLRM: The error value is currently set for Mean Sea Surface: The error value is currently set for products over land a Mean Dynamic Topography: The error value is currently set for products over Altimetric Wind Speed Error: The error value is currently set for products over Number of products with errors: 30	mputed over CONTINENTAL ICE: Dry Troposp id vector. This is a known anomaly (CRYO-CO r products over sea ice, but this is to be expected nd sea ice, but this is to be expected. ver land and sea ice, but this is to be expected over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected	P-3) and will be resolved in a future IPF update. The affected products ar ed. J. Description
S_OFFL_SIR_IOP_2_20210222T014408_20210222T023345_C001 Topography (1)	 > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products over > Altimetric Wind Speed Error: The error value is currently set for products over 	mputed over CONTINENTAL ICE: Dry Troposp ind vector. This is a known anomaly (CRYO-CO r products over sea ice, but this is to be expected ind sea ice, but this is to be expected. ver land and sea ice, but this is to be expected over land and sea ice, but this is to be expected to be readed and sea ice, but this is to be expected to be readed and sea ice, but this is to be expected were land and sea ice, but this is to be expected by this is to be expected to be readed and sea ice, but this is to be expected by this is to be expected by this is to be expected and sea ice, but this is to be expected by this is to be expected and sea ice, but this is to be expected by this is to be expected and sea ice, but this is to b	P-3) and will be resolved in a future IPF update. The affected products an ed. Description There is an error with the MSS height (solution 1) and the Mean Dynamic
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CS_OFFL_SIR_IOP_2_20210222T032322_20210222T041259_C001 Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (GOT), 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 Ocean Tide CS_OFFL_SIR_IOP_2_20210222T041259_20210222T050237_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_IOP_2_20210222T050237_20210222T055214_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_IOP_2_20210222T055214_20210222T064152_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (GOT) CS_OFFL_SIR_IOP_2_20210222T064152_20210222T064152_C001 Mean Sea Surface (1), Mean Dynamic Topography (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20210222T064152_20210222T064152_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20210222T064152_20210222T073129_C001 Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1) CS_OFFL_SIR_IOP_2_20210222T073129_20210222T082106_C001 Me	ECMWF Meteo Corrections: Currently the following corrections are not correction and the U-Wind and V-Wind components of the ECMWF model without reported in the table below. Sea State Bias & Sea State Bias PLRM: The error value is currently set for products over land a below. Mean Sea Surface: The error value is currently set for products over land a below. Mean Dynamic Topography: The error value is currently set for products over land a below. Attimetric Wind Speed Error: The error value is currently set for products over land a below. Mean of products with errors: 30 Product CS_OFFL_SIR_IOP_2_20210221T231515_20210222T000453_C002 CS_OFFL_SIR_IOP_2_20210222T000453_20210222T005430_C001 CS_OFFL_SIR_IOP_2_20210222T005430_20210222T014408_C001	Imputed over CONTINENTAL ICE: Dry Tropospind vector. This is a known anomaly (CRYO-CO r products over sea ice, but this is to be expected. r products over sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. ver land and sea ice, but this is to be expected. Ver land and sea ice, but this is to be expected. Ver land and sea ice, but this is to be expected. Ver land and sea ice, but this is to be expected. Ver land and sea ice, but this is to be expected. Ver land and sea ice, but this is to be expected. Ver land and sea ice, but this is to be expected. Ver land and sea ice, but this is to be expected. Ver land and sea surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynami	P-3) and will be resolved in a future IPF update. The affected products an ed.
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Mean Sea Surface (1), Mean Dynamic Topography (1)

CS_OFFL_SIR_IOP_2__20210222T091043_20210222T100021_C001

There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)

CS_OFFL_SIR_IOP_220210222T100021_20210222T104958_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_220210222T104958_20210222T113936_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)
All IOP_2_ products from 2021/02/22 11:39:36 until 2021/02/23 00:03:56	Dynamic Atmospheric Correction	There is an error with the Dynamic Atmospheric Correction for one or more records
CS_OFFL_SIR_IOP_220210222T113936_20210222T122913_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_220210222T122913_20210222T131850_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_220210222T131850_20210222T140827_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_220210222T140827_20210222T145805_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_220210222T145805_20210222T154742_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_220210222T154742_20210222T163720_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_220210222T163720_20210222T172657_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_220210222T172657_20210222T181634_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_220210222T181634_20210222T190611_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_220210222T190611_20210222T195549_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_IOP_220210222T195549_20210222T204526_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_220210222T204526_20210222T213504_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_IOP_220210222T222441_20210222T231419_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_220210222T231419_20210223T000356_C002	Mean Dynamic Topography (1)	There is an error with the Mean Dynamic Topography height for one or more records

1

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.

3

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20210222T032322_20210222T041259_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220210222T104958_20210222T113936_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_2_20210222T231419_20210223T000356_C002	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

6.6 P2P Measurement Quality Flag Check

P2P Quality Flags (20Hz)

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. Number of products with errors: 28 P2P Quality Flags (20Hz 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. Number of products with errors: 29 P2P Quality Flags (1 Hz & 1Hz 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. Number of products with errors: 29 6.8 P2P Ocean Retracking Quality Check P2P Retracking Flags (20Hz) 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.

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.

29

18

2093

Number of products with errors:

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	198	198	5	193	0
SIR_IOPR1B	139	101	2	99	0
SIR_IOPN1B	101	139	0	139	0
SIR_IOPM_2	198	198	135	63	0
SIR_IOPR_2	139	101	36	65	0
SIR_IOPN_2	101	139	39	94	6
SIR_IOP_P2P	28	28	0	24	4

7.1 QCC Errors

Number of QCC reports with errors:

					Total number	of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RL	RLOBOPNCDF	RL	RL	-	-	-	-	-
SIR_IOPR_2	6	1	6	6	1	6					
•											
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOP_2_	4	4	4	4							

Test Description Key:	st Description Key:					
Abbreviation	Test name	Details				
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7				
RL	RangeLatitude_6	Latitude should be between -90E6 and 90E6				
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7				
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7				
RL	RangeLongitude_6	Longitude should be between -180E6 and 180E6				
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7				
0	0	#N/A				
0	0	#N/A				

7.2 QCC Warnings

MVIOEPNCDF

MissingValueIntOceanExcludingPolarNetCDF

Number of QCC reports with warnings

Droduct Ture	BCSHNCDF	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	f each warning MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRM
Product Type				WIVIOEPNCDF			
SIR_IOPM1B	193	0	0	0	0	0	0
SIR_IOPM_2	0	0	39	39	28	53	0
SIR_IOPN1B	98	0	0	0	0	0	0
SIR_IOPN_2	0	0	11	31	36	26	28
SIR_IOPR1B	129	0	0	0	0	0	0
SIR_IOPR_2	0	6	18	39	54	25	23
Product Type	RBSZOPOEPNCDF	RNELPOTONCDF	RPEPOPFDLRMNCDF	RPEPOPEDPI RMSAR			RPEPOPFDSINNCDF
SIR IOPM1B	0	0	0	0	0	0	0
SIR IOPM 2	45	0	29	0	0	0	0
SIR IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	19	1	0	0	16	0	30
SIR IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	10	0	0	37	0	51	0
	10		0	01	U	01	0
Product Type	RPEPOPLRMNCDF	RPEPOPSARNCDF	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	25	0	0	5	12	0	3
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	0	0	23	9	24	28	20
SIR_IOPR1B	0	0	0	0	0	0	0
SIR IOPR 2	0	39	0	1	29	9	9
	4						
Product Type	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCD	F RSWHOEPNCDF	SPHRTASCNSNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF
SIR_IOPM1B	0	0	0	1	0	0	0
SIR_IOPM_2	36	0	2	1	0	0	0
SIR_IOPN1B	0	0	0	0	0	44	2
SIR_IOPN_2	28	29	12	0	0	0	0
	0	0	0	1	0	139	13
SIR IOPR1B			4	0	10	0	0
_	24	39		0	12	0	0
SIR_IOPR1B SIR_IOPR_2	24	39	1	0	12	0	U
SIR_IOPR_2 Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	MVIONCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNC	CRBSZOPOEPNCDF
SIR_IOPR_2		ł	MVIOEPNCDF	0		4	μ σ
SIR_IOPR_2 Product Type SIR_IOP_2_	IOHHMOOR 18	MVIOEPFDNCDF 28	28	MVIONCDF 17	RBSZOPOEPFDNCDF 28	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type	IOHHMOOR 18 RNELPOTONCDF	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC	28 DIRPEPOPFDSINNCDF	MVIONCDF 17 RPEPOPSINNCDF	RBSZOPOEPFDNCDF 28 RSSBCONCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	CRBSZOPOEPNCDF 27 RSSHAOFDPLRMNCD
SIR_IOPR_2 Product Type SIR_IOP_2_	IOHHMOOR 18	MVIOEPFDNCDF 28	28	MVIONCDF 17	RBSZOPOEPFDNCDF 28	RBSZOPOEPFDPLRMNC	RBSZOPOEPNCDF
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_	IOHHMOOR 18 RNELPOTONCDF	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC	28 DIRPEPOPFDSINNCDF	MVIONCDF 17 RPEPOPSINNCDF 23	RBSZOPOEPFDNCDF 28 RSSBCONCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type	IOHHMOOR 18 RNELPOTONCDF 1	NVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14	28 DIRPEPOPFDSINNCDF 26	MVIONCDF 17 RPEPOPSINNCDF 23	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	MVIONCDF 17 RPEPOPSINNCDF 23 F RSWHOEPNCDF	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	MVIONCDF 17 RPEPOPSINNCDF 23 F RSWHOEPNCDF	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNCI
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	MVIONCDF 17 RPEPOPSINNCDF 23 F RSWHOEPNCDF	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF 13 -	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	MVIONCDF 17 RPEPOPSINNCDF 23 F RSWHOEPNCDF	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF 13 -	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	MVIONCDF 17 RPEPOPSINNCDF 23 F RSWHOEPNCDF 13 -	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ t Description Key reviation	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF 13 - - Test name	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF 28 -	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	NVIONCDF 17 RPEPOPSINNCDF 23 F RSWHOEPNCDF 13 - Details	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF 28 - -	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF 15 -	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF 13 -	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF 28 -	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	NVIONCDF 17 RPEPOPSINNCDF 23 F RSWHOEPNCDF 13 - Details	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF 15 -	RBSZOPOEPNCDF 27 RSSHAOFDPLRMNC
SIR_IOPR_2 Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ Product Type SIR_IOP_2_ t Description Key reviation	IOHHMOOR 18 RNELPOTONCDF 1 RSSHAONCDF 13 - - Test name	MVIOEPFDNCDF 28 RPEPOPFDPLRMSINNC 14 RSWHOEPFDNCDF 28 - - NetCDF	28 CORPEPOPFDSINNCDF 26 RSWHOEPFDPLRMNCDI	MVIONCDF 17 7 8 PEPOPSINNCDF 23 F RSWHOEPNCDF 13 - Details The burst counter should	RBSZOPOEPFDNCDF 28 RSSBCONCDF 9 SPHLPQWNCDF 28 - -	RBSZOPOEPFDPLRMNC 17 RSSHAOFDNCDF 15 -	Image: style="text-align: center;">Image: style="text-align: center;"/>Image: style="text-align: style="text-align: center;"/>Image: style="text-align: center;"//

The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees

MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPFDPLRM NCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2PLRMNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RBSZOPOEPNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarNetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RNELPOTONCDF	RangeNELPOceanTideOceanNetCDF	The Non-equilibrium long period ocean loading tide height should be between -40mm and 40mm (or missing) for surface type = ocean
RPEPOPFDLRMNCDF	RangePeakinessExcludingPolarOPFD2LRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDPLRMSAR	RangePeakinessExcludingPolarOPFD2PLRMSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SPHRTASCNSNCDF	SPH_Rel_Time_ASC_Node_Start_v2_NetCDF	Rel_Time_ASC_Node_Start mismatch (DBL ASC, rounded up to 0.1)
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0