

## **QA4EO Daily Report for IOP data:**

<u>11/11/2021</u>

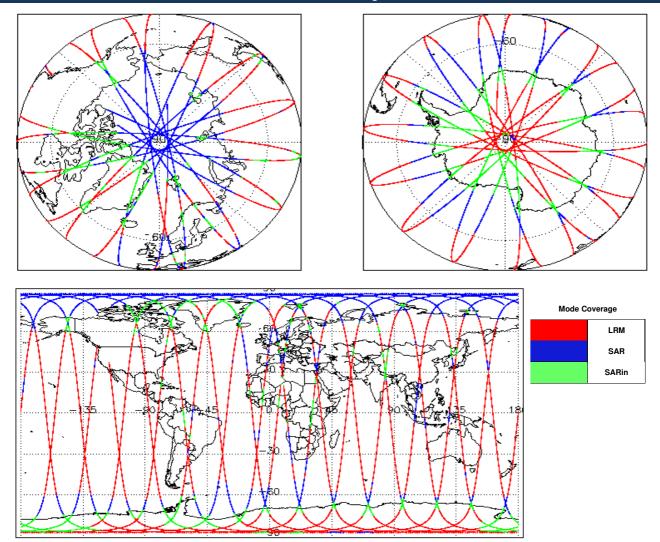
Report Production:	15-Nov-2021	Check	L1 & L2	P2P
neport Froduction.	13-1107-2021	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor used:	CryoSal Ocean Frocessor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
L1B, L2 & P2P Science Data	Product Header Analysis	Nominal	Nominal	
1		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 and 7.2

1. Overview

#### Mission / Instrument News 10-Nov-2021 None 11-Nov-2021 None 11-Nov-2021

12-Nov-2021 Nothing planned

2. Global Coverage



### 3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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). 0

Number of products with errors:

For all products, a series of pre-defined ch	necks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain.
L1B Processing Quality HR: The I1b_pro OSARIn chains. A modification is required	oc_flag_hr flag is currently set all L1B IOPR and IOPN products because the I1b_processing_quality_hr field is not correctly configured in the OSAR and I in the next release.
Number of products with errors:	0
4.3 L1B Auxilary Data File U	sage Check
Each product is checked for missing Data	Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct.
Number of products with errors:	0
4.4 L1B Auxiliary Correction	Error Check
CryoSat L1B data includes a correction er	ror flag for each measurement record. The bit value of this flag indicates any problems when set.
Number of products with errors:	0
4.5 L1B Measurement Confi	dence Data Check
CryoSat L1B data includes a measuremen	nt confidence flag for each measurement record. The bit value of this flag indicates any problems when set.
Attitude Correction Missing: This flag is	currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211111T044140_20211111T044926_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20211111T051125_20211111T051430_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20211111T083028_20211111T083311_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records

#### 4.6 L1B Waveform Group Data Check

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

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

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#### Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20211111T010006_20211111T012609_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211111T083028_20211111T083311_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211111T095301_20211111T095400_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211111T110913_20211111T111054_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211111T125635_20211111T130041_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211111T131011_20211111T131021_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211111T161111_20211111T162727_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPM1B_20211111T173159_20211111T180537_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211111T032803_20211111T032923_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211111T064129_20211111T064615_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211111T131056_20211111T131505_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211111T231440_20211111T231533_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20211111T231745_20211111T231906_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211111T013759_20211111T014241_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211111T031602_20211111T032121_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211111T094441_20211111T094618_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211111T105338_20211111T105909_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211111T113347_20211111T114504_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211111T131506_20211111T132233_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20211111T221107_20211111T221638_C001	Loss of Echo	The tracking echo is missing for one or more records

#### 5. IOP Level 2 Data Quality Check

#### 5.1 L2 Product Format Check

Each product, retrieved and unpacked from the science server, is checked to ensure it consists of both an XML header file (.HDR) and a binary product file (.DBL).

Number of products with errors:

#### 5.2 L2 Product Header Analysis

For all products, a series of pre-defined checks are performed on the MPH and SPH in order to identify any inconsistencies and/or errors raised by the ground-segment processing chain. Number of products with errors: 0

#### 5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

#### 5.4 L2 Auxiliary Correction Error Check

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

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

> ECMWF Meteo Corrections: Currently the following corrections are not computed over CONTINENTAL ICE: Dry Tropospheric 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:

Construction         Description         Tepperaphy (b)         Tepperaphy (b)           CS_OFE_GR_DON_2_3011111000001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_3011111000001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_301111100001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_301111100001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_301111100001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_301111100001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_301111100001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_301111100001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_3011111000001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_3011111000001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b)         Teoperaphy (b)           CS_OFE_GR_DON_2_3011111000001         Mark 56 Strict(1), Man Dysen: Teoperaphy (b)         Teoperaphy (b) <th></th> <th></th> <th></th>			
Displand	Product	Test Failed	Description
Construction         Topolography (1)         Topolography (1)         Topolography (1)           CS, DFE, SER LONE, 2.0011111014055 020111111014012 02011         Mean Departic Topolography (1)         Tee is a server that both Statistic Topolography (1)           CS, DFE, SER LONE, 2.0011111101405 020111111014012 02011         Mean Departic Topolography (1)         Tee is a server that both Topolography (1)           CS, DFE, SER LONE, 2.0011111014012 02011111100000 02011         Mean Departic Topolography (1)         Tee is a server that both Topolography (1)           CS, DFE, SER LONE, 2.0011111100000 02011         Mean Departic Topolography (1)         Tee is a server with the MSD heigh (1) duality (1) and the Mean Dynamic Topolography (1)           CS, OFE, SER LONE, 2.0011111100000 02011         Mean Departic Topolography (1)         Tee is a server with the MSD heigh (1) duality (1) and the Mean Dynamic Topolography (1)           CS, OFE, SER LONE, 2.0011111100000 02011         Mean Departic Topolography (1)         Tee is a server with the MSD heigh (1) duality (1) and the Mean Dynamic Topolography (1)           CS, OFE, SER LONE, 2.0011111100000 02011         Mean Departic Topolography (1)         Tee is a server with the MSD heigh (1) duality (1) and the Mean Dynamic Topolography (1)           CS, OFE, SER LONE, 2.0011111100000 02011         Mean Departic Topolography (1)         Tee is a server with the MSD heigh (1) duality (1) and the Mean Dynamic Topolography (1) wight the over mean secretic tee is a server with the MSD heigh (1) duality (1) and the Mean Dynamic Topolography (1) wight the over mean sec	CS_OFFL_SIR_IOPM_2_20211111T161110_20211111T162727_C001	Mean Dynamic Topography (1)	
Control         Control <t< td=""><td>CS_OFFL_SIR_IOPN_2_20211111T004655_20211111T004957_C001</td><td></td><td>There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)</td></t<>	CS_OFFL_SIR_IOPN_2_20211111T004655_20211111T004957_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CB: OFFL SHI, DM 2, 2021111100220, 2021111102200, 2081     Mail Dynamic Toppgraph (1)     Inversions       CB: OFFL SHI, DM 2, 2021111100220, 2021111102200, 2081     Mail Sea Surface (1), Mail Dynamic     There is an error with the MSS height isolation (1) and the Main Dynamic       CB: OFFL SHI, DM 2, 2021111100220, 2021111102200, 2081     Main Sea Surface (1), Main Dynamic     There is an error with the MSS height isolation (1) and the Main Dynamic       CB: OFFL SHI, DM 2, 2021111100210, 2021111102004, 2081     Main Sea Surface (1), Main Dynamic     There is a ner with the MSS height isolation (1) and the Main Dynamic       CB: OFFL SHI, DM 2, 2021111100211, 2021111100201, 20211111100201, 20211111100201, 20211111100201, 20211111100201, 20211111100201, 2001	CS_OFFL_SIR_IOPN_2_20211111T005254_20211111T005633_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
DSUFLENDPLZ282101111022281_202111111022810         Topography (1)         Topography (1)         Topography (1)           CS_OFFL_SR_IOPL_2_0211111022810         Control (1)         Man See Suface (1), Man Dynamic         The is a more with the MSS Topic (1) and the Man Dynamic           CS_OFFL_SR_IOPL_2_0211111022810         Control (1)         Man See Suface (1), Man Dynamic         The is a more with the MSS Topic (1) and the Man Dynamic           CS_OFFL_SR_IOPL_2_0211111026412         Control (1)         Man See Suface (1), Man Dynamic         The is a more with the MSS Topic (1) and the Man Dynamic           CS_OFFL_SR_IOPL_2_0211111026412         Control (1)         Man See Suface (1), Total Generative Control (1)         The is a more with the MSS Topic (1) (1) for our or more more success           CS_OFFL_SR_IOPL_2_0211111026412         Control (1)         Man Dynamic Topography (1)         The is a more with the MSS Topic (1) (1) for our or more more success           CS_OFFL_SR_IOPL_2_0211111026412         Control (1)         Man Dynamic Topography (1)         The is a more with the MSS Topic (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	CS_OFFL_SIR_IOPN_2_20211111T014825_20211111T014912_C001	Mean Dynamic Topography (1)	
Construction         Topograph (1)         Topograph (1)         Topograph (1)         Topograph (1)           CS         OFFL_SIN_OPRL2_2011111704011 2011111704019 0001         Man Sea Sufface (1), Man Dynamic         Topograph (1)         Topograph	CS_OFFL_SIR_IOPN_2_20211111T022733_20211111T023007_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Corp. Sin_Conc. Sin_Conn. Sin_Conc. Sin_Conc. Sin_Conc. Sin_Conc. Sin_Con	CS_OFFL_SIR_IOPN_2_20211111T032241_20211111T032400_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Toppgraphy (n)       Toppgraphy (n)       Toppgraphy (n)       Toppgraphy (n)       Toppgraphy (n)         CB_OFFL_SIR_LOPK_2_80211111006072_00211111106076_0001       Mean See Surface (1), Total Geoomhit       There is an error with the MSS height (buildon 1) and the Total Geoomhit         CB_OFFL_SIR_LOPK_2_80211111006072_002111111006075_0001       Mean Dynamic Topography (1)       There is an error with the Mass Dynamic Topography (1)         CB_OFFL_SIR_LOPK_2_80211111006072_00211111006075_0001       Mean Dynamic Topography (1)       There is an error with the Mass Dynamic Topography (1)         CB_OFFL_SIR_LOPK_2_80211111006415_0001       Mean See Surface (1), Mean Dynamic       Topography (1)         CB_OFFL_SIR_LOPK_2_80211111006415_00011       Mean See Surface (1), Mean Dynamic       Topography (1)         CB_OFFL_SIR_LOPK_2_80211111006415_00011       Mean See Surface (1), Mean Dynamic       Topography (1)         CB_OFFL_SIR_LOPK_2_80211111006415_00011       Mean See Surface (1), Mean Dynamic       Topography (1)         CB_OFFL_SIR_LOPK_2_80211111006415_00011       Mean See Surface (1), Mean Dynamic       Topography (1)         CB_OFFL_SIR_LOPK_2_80211111006415_00011       Mean See Surface (1), Mean Dynamic       Topography (1)         CB_OFFL_SIR_LOPK_2_802111111006415_00011       Mean See Surface (1), Mean Dynamic       Topography (1)         CB_OFFL_SIR_LOPK_2_802111111006415_00011       Mean See Surface (1), Mean Dynamic       Topography (1)       T	CS_OFFL_SIR_IOPN_2_20211111T040311_20211111T040849_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Open Tide (GD)         December Case and the (solution 1: 000) for one or more records           CS_OFR_SIR_LOPK_2_802111111054658_202111111054658_202111111054658_202111111054572_202011         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFR_SIR_LOPK_2_80211111105458_202111111054572_202011         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography (1)           CS_OFR_SIR_LOPK_2_802111111054512_002111111054572_2020111111054572_2020111111054572_2020111111055727_2020111         Mean Sas Surface (1), Mean Dynamic Topography (1)           CS_OFR_SIR_LOPK_2_802111111054512_002111111055727_2020111111055731_202111111055731_202111111055731_202111111055731_202111111055731_202111111055731_202111111055731_202111111055731_202111111055731_202111111057315_202111111057315_202111111055731_202111111055731_202111111055731_202111111055731_202111111055731_202111111055535_202111111055735_202111111055735_202111111055535_202111111055535_202111111055535_202111111055535_202111111055535_202111111055535_202111111055535_2021111111055535_2021111111055535_2021111111055535_2021111111055535_2021111111055535_2021111111055535_2021111111055535_202111111105555_202111111105555_202111111105535_202111111105535_202111111105555_202111111105555_202111111105555_202111111105555_202111111105555_202111111105555_2021111111111	CS_OFFL_SIR_IOPN_2_20211111T050215_20211111T050424_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
Control         Control         Control         Control         Control           Cite	CS_OFFL_SIR_IOPN_2_20211111T050527_20211111T050756_C001		
Column Concentration         Interest Strate         Interest Strate         Interest Strate           CS_OFFL_SIR_JOPN_2_20211111706413g_20211111706415_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_JOPN_2_20211111706413g_20211111706401_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_JOPN_2_20211111706438_20211111706406_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocomic Coent Table (E2), Non-Equilibrium Long Perso Coent fibe         There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)           CS_OFFL_SIR_JOPN_2_20211111706458_20211111706458_20211111706459         Mean Dynamic Topography (1)         There is an error with the Mean Dynamic Topography height for one or more records           CS_OFFL_SIR_JOPN_2_20211111710458_202111117104711_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_JOPN_2_20211111710458_202111117104592         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_JOPN_2_202111117104592_020111117123249_0001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is	CS_OFFL_SIR_IOPN_2_20211111T054458_20211111T054633_C001	Mean Dynamic Topography (1)	
CB_OFFL_SIR_UOPK_2_20211111104218_20211111104515_0001       Topography (1)       Topography (1)       Topography leght (solution 1) and the Mean Dynamic Topography (1)         CB_OFFL_SIR_UOPK_2_20211111073315_202111111073341_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       Tore is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)         CB_OFFL_SIR_UOPK_2_202111110705438_20211111005535_0001       Mean Sea Surface (1), Mean Dynamic Topography (a)       Tore is an error with the MSS height (solution 1), the Mean Dynamic Topography (a)         CB_OFFL_SIR_UOPK_2_20211111005438_202111111055535_0001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CB_OFFL_SIR_UOPK_2_20211111105256_20211111105535_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CB_OFFL_SIR_UOPK_2_20211111105256_20211111110537_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CB_OFFL_SIR_UOPK_2_202111111102256_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CB_OFFL_SIR_UOPK_2_20211111112256_02011111112256_0001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CB_OFFL_SIR_UOPK_2_202111111112256_0201111	CS_OFFL_SIR_IOPN_2_20211111T055524_20211111T055727_C001	Mean Dynamic Topography (1)	
DS_DFF_SIR_DOPK_2_2021111103315_2021111109331_2021111109331_2021       Topography (1)       Topography (2)         CS_OFFL_SIR_DOPK_2_20211111096413_2021111109684_C001       Mean Sea Surface (1), Mean Dynamic Topography (2000)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1)         CS_OFFL_SIR_DOPK_2_20211111095438_202111111095335_C001       Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1), and Idal correctors for one or more records         CS_OFFL_SIR_DOPK_2_202111111095438_202111111095335_C001       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_DOPK_2_20211111105228_202111111105337_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_DOPK_2_202111111105228_202111111122249_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_DOPK_2_202111111122128_202111111122349_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_DOPK_2_202111111123129_20211111112349_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_DOPK_2_202111111131056_20211111112349_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_DOPK_2_2021111111131056_202111111113	CS_OFFL_SIR_IOPN_2_20211111T064129_20211111T064615_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211111T090413_20211111T090804_C001       Topography (1), Total Geoening Coeening Coeening Coeening Total Geoening Coeening	CS_OFFL_SIR_IOPN_2_20211111T073315_20211111T073541_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
OPE_SIM_COM_2_20211111109535_2001         Invest Dynamic Topography (1)         more records           CS_OFFL_SIR_IOPN_2_202111111104358_202111111104358_202111111105337_C001         Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the 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_202111111105226_202111111105337_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_IOPN_2_202111111122246_0011         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_IOPN_2_2021111111122249_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_IOPN_2_202111111131505_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_IOPN_2_2021111111145406_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_IOPN_2_2021111111145406_C001         Mean Sea Surface (1), Mean Dynamic Topography (1)         There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)           CS_OFFL_SIR_IOPN_2_202111111	CS_OFFL_SIR_IOPN_2_20211111T090413_20211111T090804_C001	Topography (1), Total Geocentric Ocean Tide (GOT), Total Geocentric Ocean Tide (FES), Non-Equilibrium Long Period	
CS_OFFL_SIR_IOPN_2_20211111T104358_20211111T105337_0001       Mean Dynamic Topography (1)       Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T105226_20211111T105337_0001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T122126_20211111T122546_0001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T123105_20211111T123249_0001       Mean Sea Surface (1), Mean Dynamic Topography (6), Total Geocentric Ocean Tide (solution 1), the Total Geocentric Ocean Tide (solution 1) and the Mean Dynamic Topography (1), Total Geocentric Ocean Tide (solution 1), the Total Geocentric Ocean Tide (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T145406_001       Mean Sea Surface (1), Mean Dynamic Topography (6)ultion 1), the Total Geocentric Ocean Tide (solution 1)         CS_OFFL_SIR_IOPN_2_20211111T145406_001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T145403_2001       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_20211111T145403_001       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_20211111T17179	CS_OFFL_SIR_IOPN_2_20211111T095438_20211111T095535_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_2021111110226_202111111122546_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_202111111123129_202111111123249_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_2021111111123129_202111111113205_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1), the Mean Dynamic         CS_OFFL_SIR_IOPN_2_202111111131056_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1), the Mean Dynamic         CS_OFFL_SIR_IOPN_2_202111111131056_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_2021111111145405_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_2021111111145405_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_2021111111154712_2021111111154935_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_20211111111154935_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_202111111172614_20211111117933_C00	CS_OFFL_SIR_IOPN_2_20211111T104358_20211111T104711_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211111122126_20211111123249_C001       Topography (1)       Topography (1)         CS_OFFL_SIR_IOPN_2_202111111123129_202111111123249_C001       Mean Saa Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_202111111131056_202111111131055_C001       Mean Saa 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 (GOT)         CS_OFFL_SIR_IOPN_2_202111111131056_202111111145406_C001       Mean Saa Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202111111145406_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_IOPN_2_2021111111154712_2021111111154935_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 height (solution 1)         CS_OFFL_SIR_IOPN_2_2021111111175414_20211111117933_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_2021111111176748_2021111111173039_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 height (solution 1)         CS_OFF	CS_OFFL_SIR_IOPN_2_20211111T105226_20211111T105337_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_202111111131056_202111111131505_C001       Topography (1)       Topography (1)         CS_OFFL_SIR_IOPN_2_202111111131056_202111111131505_C001       Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tde (GOT)       There is an error with the MSS height (solution 1), the Mean Dynamic Topography (1), Total Geocentric Ocean Tde (GOT)         CS_OFFL_SIR_IOPN_2_202111111145309_202111111145406_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202111111154712_202111111154935_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_2021111111154712_202111111154935_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202111111117793_0_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_2021111111180748_2021111111180748_20211111111111111111111111111111111111	CS_OFFL_SIR_IOPN_2_20211111T122126_20211111T122546_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211111T131056_20211111T131505_C001       Topography (1), Total Geocentric Ocean       Topography (solution 1), the Total Geocentric Ocean         CS_OFFL_SIR_IOPN_2_20211111T145309_20211111T145406_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_20211111T145405_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_20211111T145405_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_20211111T1719_20211111T171933_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20211111T172614_20211111T173039_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T180748_20211111T181140_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T180748_20211111T181140_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T180748_20211111T180099_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (	CS_OFFL_SIR_IOPN_2_20211111T123129_20211111T123249_C001	Topography (1)	
CS_OFFL_SIR_IOPN_2_20211111145309_20211111145406_0001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_202111111154712_202111111154935_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_202111111177019_202111111171933_C001       Mean Dynamic Topography (1)       There is an error with the Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_202111111177614_20211111117933_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_202111111180748_202111111180748_202111111180748_202111111180748_202111111180748_202111111180748_202111111180748_2021111111180748_202111111180748_2021111111180748_2021111111180748_202111111118009_C001       Mean Sea Surface (1), Mean Dynamic         CS_OFFL_SIR_IOPN_2_202111111180748_202111111180748_202111111118009_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_2021111111180748_202111111118009_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_2021111111190913_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_2021111111190913_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_20211111T131056_20211111T131505_C001	Topography (1), Total Geocentric Ocean	Topography (solution 1), the Total Geocentric Ocean Tide (solution 1:
CS_OFFL_SIR_IOPN_2_20211111171719_202111111717933_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_202111111177719_202111111177933_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_2021111111772614_202111111173039_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202111111180748_202111111181140_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202111111185737_20211111119009_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_202111111185737_20211111119009_C001       Mean Sea Surface (1), Mean Dynamic Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_202111111190730_202111111190913_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_202111111190730_202111111204808_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_20211111T145309_20211111T145406_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211111T172614_20211111T173039_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T180748_20211111T181140_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T180748_20211111T180748_20211111T18009_C001       Mean Sea Surface (1), Mean Dynamic Topography (1)       There is an error with the MSS height (solution 1) and the Mean Dynamic Topography (1)         CS_OFFL_SIR_IOPN_2_20211111T185737_20211111T19009_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_20211111T190730_20211111T190913_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_20211111T204631_20211111T204808_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_20211111T154712_20211111T154935_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211111T180748_20211111T181140_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20211111T180748_20211111T181140_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_20211111T185737_20211111T190009_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_20211111T190730_20211111T190913_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_20211111T204631_20211111T204808_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_20211111T171719_20211111T171933_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20211111T185737_20211111T19009_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20211111T185737_20211111T19009_C001       Mean Sea Surface (1), Mean Dynamic       There is an error with the MSS height (solution 1) and the Mean Dynamic         CS_OFFL_SIR_IOPN_2_20211111T190730_20211111T190913_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_20211111T204631_20211111T204808_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_20211111T172614_20211111T173039_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211111T190730_20211111T190913_C001       Topography (1)       Topography height (solution 1)         CS_OFFL_SIR_IOPN_2_20211111T190730_20211111T190913_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_20211111T204631_20211111T204808_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_20211111T180748_20211111T181140_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOPN_2_20211111T204631_20211111T204808_C001 Mean Dynamic Topography (1) more records CS_OFFL_SIR_IOPN_2_20211111T204631_20211111T204808_C001 Mean Dynamic Topography (1) more records	CS_OFFL_SIR_IOPN_2_20211111T185737_20211111T190009_C001		There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIH_IOPN_2_20211111204631_20211111204808_C001 Mean Dynamic Topography (1) more records	CS_OFFL_SIR_IOPN_2_20211111T190730_20211111T190913_C001	Mean Dynamic Topography (1)	
	CS_OFFL_SIR_IOPN_2_20211111T204631_20211111T204808_C001	Mean Dynamic Topography (1)	
CS_OFFL_SIR_IOPN_2_20211111T221639_20211111T221756_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_20211111T221639_20211111T221756_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_20211111T222328_20211111T222645_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_20211111T235600_20211111T235716_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_20211110T235634_20211111T000344_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_20211111T000344_20211111T000527_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_20211111T013800_20211111T014241_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_20211111T014241_20211111T014403_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_20211111T031602_20211111T032121_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_20211111T032121_20211111T032240_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_20211111T045840_20211111T050215_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_20211111T063338_20211111T063406_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_20211111T063406_20211111T064128_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_20211111T081358_20211111T082200_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_20211111T094441_20211111T094618_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_20211111T095535_20211111T100325_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_20211111T113347_20211111T114504_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_20211111T131506_20211111T132233_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_20211111T145407_20211111T145942_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_20211111T163317_20211111T164009_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_20211111T181140_20211111T181653_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_20211111T194927_20211111T195715_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_20211111T212742_20211111T213513_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_20211111T214427_20211111T214623_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_20211111T230408_20211111T231316_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_20211111T231316_20211111T231440_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.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20211111T044140_20211111T044926_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20211111T051124_20211111T051430_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20211111T083028_20211111T083311_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOPM_2_20211111T083028_20211111T083311_C001	Power scaling error	

### 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.

3

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

99

### Number of products with errors:

Product	Test Failed	Description	
CS_OFFL_SIR_IOPM_2_20211111T000541_20211111T001024_C001		The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	

CS_OFFL_SIR_IOPM_2_20211111T001753_20211111T002245_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_20211111T002557_20211111T003058_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_20211111T003246_20211111T004259_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_20211111T010006_20211111T012609_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_20211111T012748_20211111T013356_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_20211111T014808_20211111T014824_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_20211111T014912_20211111T015603_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_20211111T015617_20211111T022032_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_20211111T023428_20211111T023649_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_20211111T023925_20211111T024337_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_20211111T024429_20211111T030601_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_20211111T032400_20211111T032802_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_20211111T032923_20211111T034447_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_20211111T035347_20211111T040311_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_20211111T041144_20211111T041608_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_20211111T041834_20211111T043252_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_20211111T043431_20211111T044008_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_20211111T044929_20211111T044932_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_20211111T051124_20211111T051430_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_20211111T051446_20211111T051835_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_20211111T051958_20211111T054303_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_20211111T054634_20211111T055523_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_20211111T055821_20211111T062123_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_20211111T065702_20211111T072155_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_20211111T072602_20211111T072743_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_20211111T072848_20211111T073314_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_20211111T073800_20211111T080423_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_20211111T083028_20211111T083311_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_20211111T083427_20211111T085955_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_20211111T090804_20211111T091353_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_20211111T091718_20211111T093103_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_20211111T093510_20211111T094107_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_20211111T095300_20211111T095400_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_20211111T100630_20211111T104007_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_20211111T104712_20211111T105225_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_20211111T105909_20211111T110233_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_20211111T110913_20211111T111054_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_20211111T112940_20211111T113346_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_20211111T114504_20211111T115517_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_20211111T115803_20211111T121918_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_20211111T122720_20211111T123128_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_20211111T123636_20211111T124634_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_20211111T124822_20211111T125539_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_20211111T125635_20211111T130041_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_20211111T130822_20211111T130920_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_20211111T132247_20211111T132250_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_20211111T132631_20211111T133128_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_20211111T133225_20211111T135818_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_20211111T140045_20211111T140612_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_20211111T141714_20211111T142943_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_20211111T143006_20211111T144730_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_20211111T150351_20211111T150409_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_20211111T150857_20211111T152038_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_20211111T152242_20211111T153749_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.

Comp. Bit Dayl 2 201111110001, 20111111001, 20111111001, 2011         Comp. Data Attack Program Status         Comp. Dattack Program Status <t< th=""><th>CS_OFFL_SIR_IOPM_2_20211111T154013_20211111T154510_C001</th><th>OCOG Altimeter Range Quality, OCOG Backscatter Quality</th><th>The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.</th></t<>	CS_OFFL_SIR_IOPM_2_20211111T154013_20211111T154510_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
Cit, Dirk, Bill, Dirk J, 2011111110220 (2011)       proc Backator Cuby, DOSL       proc Backator Cuby, DOSL         Cit, Dirk, Bill, Dirk J, 201111110220, 201111110220, 2011       Door Affects Raps, 2014, DOSL on an and Schlader Cuby, Page New York, Dirk Schlader Cuby, Page New Yor	CS_OFFL_SIR_IOPM_2_20211111T154550_20211111T154711_C001		
Dis Des, Jen LEPM 2. 2001111116272 (2001)       avail Backauttar Cauly Page Machaeline Cauly	CS_OFFL_SIR_IOPM_2_20211111T155419_20211111T160220_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Control Structure       Rescards Guily       To own more excets.         Control Rescards Guily       Control Rescards Guily       Control Rescards Guily       Control Rescards Guily         Control Rescards Guily       Control Rescards Guily       Control Rescards Guily       Control Rescards Guily       Control Rescards Guily         Control Rescards Guily       Control Rescards Guily       Control Rescards Guily       Control Rescards Guily       Control Rescards Guily         Control Rescards Guily       Control Rescards Guily       Control Rescards Guily       The OCCOL Rescards Rescards Guily       Control Rescards Guily         Control Rescards Guily       Control Rescards Guily       The OCCOL Rescards Rescards Guily       The OCCOL Rescards Rescards Guily       The OCCOL Rescards Rescards Guily         Control Rescards Guily       Control Rescards Guily       The OCCOL Rescards Rescards Guily <td>CS_OFFL_SIR_IOPM_2_20211111T161110_20211111T162727_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_IOPM_2_20211111T161110_20211111T162727_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CB, DFL, BRL, DFL, ZB211111712687, 20211111712687, 20211111712687, 20211111712687, 2021111718687, 2021111712687, 2021111718687, 2021111718687, 2021111718687, 2021111718687, 2021111718687, 2021111718687, 2021111718687, 2021111718687, 2021     Coato Afteneor Flago, S04, 974     The Occas Afteneor Flago, S04, 974       CB, OFFL, SR, IOFM, 2, 20211117186876, 20211117186876, 2021     Coato Afteneor Flago, S04, 974     The Occas Afteneor Flago, S04, 974       CB, OFFL, SR, IOFM, 2, 20211117186876, 20211117186876, 2021     Coato Afteneor Flago, S04, 974     The Occas Afteneor Flago, S04, 974       CB, OFFL, SR, IOFM, 2, 20211117186276, 20211117186876, 2021     Coato Afteneor Flago, S04, 974     The Occas Afteneor Flago, S04, 974       CB, OFFL, SR, IOFM, 2, 20211117186276, 20211117186767, 2021     Coato Afteneor Flago, S04, 974     The Occas Afteneor Flago, S04, 974       CB, OFFL, SR, IOFM, 2, 20211117186276, 20211117186767, 2021     COCG Afteneor Flago, S04, 974     The Occas Afteneor Flago, S04, 974       CB, OFFL, SR, IOFM, 2, 2021111718677, 20211117180787, 20211117180787, 20211117180787, 20211117180787, 20211117180787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 20211117120787, 202111171	CS_OFFL_SIR_IOPM_2_20211111T164009_20211111T164403_C001		
Control         Exercisition Coality         Interface and monomerated.           Cost         Cost         Attempo         The Cost         Attempo	CS_OFFL_SIR_IOPM_2_20211111T170207_20211111T171625_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
C8     OFEL_SIR_IOPM_2.202111117135159_202111117135159_2001     Invit Baskeater Dashy, OCCG     The OCCA Athere Finge and Baskeater Dashy Fings have been set to rear or more mode.       C8_OFFL_SIR_IOPM_2.20211111718516_20211111718529_2001     Cocean Atherem Fange, SSHA, SWH Baskeater Dashy, OCCG     The OCCA Atherem Fange, SSHA, SWH and Subscater Dashy, OCCG       C8_OFFL_SIR_IOPM_2.20211111718529_2001     Cocean Atherem Fange, SSHA, SWH Baskeater Dashy, OCCG     The OCCA Atherem Fange, SSHA, SWH and Subscater Dashy, OCCG       C8_OFFL_SIR_IOPM_2.20211111718529_2001     Cocean Atherem Fange, SSHA, SWH Baskeater Dashy, OCCG     The OCCA Atherem Fange, SSHA, SWH and Subscater Dashy, OCCG       C8_OFFL_SIR_IOPM_2.20211111718529_2001     Cocean Atherem Fange, SSHA, SWH Baskeater Dashy, OCCG     The OCCA Atherem Fange, SSHA, SWH and Subscater Dashy, OCCG       C8_OFFL_SIR_IOPM_2.20211111718010_20211111718010_001     COCIA Atherem Fange SSHA, SWH Baskeater Dashy, OCCG     The OCCA Atherem Fange Ather Subscater Dashy, OCCG       C8_OFFL_SIR_IOPM_2.20211111718010_20211111718010_001     COCIA Atherem Fange Callin, OCCG     The OCCA Atherem Fange Callin, OCCG       C8_OFFL_SIR_IOPM_2.20211111718010_01     CoCCIA Atherem Fange Callin, OCCG     The OCCA Atherem Fange Callin, OCCG       C9_OFFL_SIR_IOPM_2.20211111718010_01     CoCIA Atherem Fange Callin, OCCG     The OCCA Atherem Fange Callin, OCCG       C9_OFFL_SIR_IOPM_2.2021111718010_01     COCIA Atherem Fange Callin, OCCG     The OCCA Atherem Fange Callin, OCCG       C9_OFFL_SIR_IOPM_2.20211111718010_02     COCIA Atherem Fange Callin, OCCG <td>CS_OFFL_SIR_IOPM_2_20211111T171934_20211111T172424_C001</td> <td></td> <td></td>	CS_OFFL_SIR_IOPM_2_20211111T171934_20211111T172424_C001		
Description         Description         Basistation Coulty         torget one or more records.           CS_OFFL_SR_UOPM_2_X0211111718000_X0211111718000_X001         Description         The Count America Range, SMA, SWH and Basistation County Reference on the COOK America Range, SMA, SWH and Basistation County Reference on the COOK America Range, SMA, SWH and Basistation County Reference on the COOK America Range, SMA, SWH and Basistation County Reference on the COOK America Range and Basistation County Reference on the Cook America Range and Basistation County Reference Range, SMA, SWH and Basistation County Referenc	CS_OFFL_SIR_IOPM_2_20211111T173159_20211111T180537_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
05_0FRL_SIR_UPM_2_8021111T18582_80201111T18582_80201         and Backstein Casily, DOGG         and Backstein Casily, DOGG           05_0FRL_SIR_UPM_2_8021111T18581_0201         Coen Attracter Range and Backstein Casily, Plag         The OCGG Attracter Range and Backstein Casily, Plag           05_0FRL_SIR_UPM_2_8021111T18641_0201111T18651_0201         Coen Attracter Range SSH, SWH         The OCGG Attracter Range and Backstein Casily, Plag           05_0FRL_SIR_UPM_2_8021111T18640_0201111T19030_0201         Coen Attracter Range Casily, OCGG         The OCGG Attracter Range and Backstein Casily, Plag           05_0FRL_SIR_UPM_2_8021111T19030_0201         COCG Attracter Range Casily, OCGG         The OCGG Attracter Range and Backstein Casily, Plag           05_0FRL_SIR_UPM_2_8021111T19030_0201         COCG Attracter Range Casily, OCGG         The OCGG Attracter Range and Backstein Casily, Plag           05_0FRL_SIR_UPM_2_8021111T19030_0201         COCG Attracter Range and Backstein Casily, Plag         The OCGG Attracter Range and Backstein Casily, Plag           05_0FRL_SIR_UPM_2_8021111T19030_0201         COCG Attracter Range and Backstein Casily, Plag         The OCGG Attracter Range and Backstein Casily, Plag           05_0FRL_SIR_UPM_2_8021111T28003_0201         COCG Attracter Range Casily, SUK, SWH and Backstein Casily, Plag         The OCGG Attracter Range and Backstein Casily, Plag           05_0FFL_SIR_UPM_2_8021111T28003_0201111T280550_C001         COCG Attracter Range SUK, SWH and Backstein Casily, Plag         The OCGG Attracter Range and Backstein Casily, Plag     <	CS_OFFL_SIR_IOPM_2_20211111T182516_20211111T182522_C001		
CS_OFFL_SIR_JOPM_2_2021111T180510_2021111T180510_2021       and Backscatter Quality_COCG       and the QOCG Altrenet Range and Backscatter Quality Flags have been and toor one none cocks.         CS_OFFL_SIR_JOPM_2_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T180510_2021111T18077_D011       DCOG Altrenet Range Quality_COCG       The OCOG Altrenet Range and Backscatter Quality Flags have been set toor one none records.         CS_OFFL_SIR_JOPM_2_2021111T180050_2021111T18077_D011       DCOG Altrenet Range and Backscatter Quality Flags have been set toor one none records.         CS_OFFL_SIR_JOPM_2_2021111T20006_2021111T20059_20011       DCOG Altrenet Range and Backscatter Quality Flags have been set toor one none records.         CS_OFFL_SIR_JOPM_2_2021111T20006_2021111T20059_20011       DCOG Altrenet Range and Backscatter Quality Flags have been set toor on rone records.         CS_OFFL_SIR_JOPM_2_2021111T20106_2021111T20059_20011       DCOG Altrenet Range and Backscatter Quality Flags have been set toor on rone records.         CS_OFFL_SIR_JOPM_2_2021111T20106_2021111T20049_20011       DCOG Altrenet Range and Backscatter Quality Flags have been set tor on or rone records.         CS_OFFL_SIR_JOPM_2_2021111T20106_2021111T20459_C001       DCOG Altrenet Range and Backscatter Quality.       The OCOG Altrenet Range and Backscatter Quality Flags have been set tor on or rone records.         CS_OFFL_SIR_JOPM_2_2021111T20159_2021111T20459_2001111T20459_2001111T20459_2001111T20459_2001111T20459_200011       DCOG Altrenet Range Backscatter Quality.	CS_OFFL_SIR_IOPM_2_20211111T183230_20211111T185324_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Displant         Displant         Backscatter Quality         for one or more records.           CS_OFR_SIR_JOPM_2_20211111190002_0221111119070_0001         Backscatter Quality         The OCOO Alimeter Range Stalk, SWH           CS_OFR_SIR_JOPM_2_20211111190002_021111119070_0001         Coon Alimeter Range, SSHA, SWH         The OCOO Alimeter Range, SSHA, SWH           CS_OFR_SIR_JOPM_2_202111111200024_0021111119077_0001         Coon Alimeter Range, SSHA, SWH         The OCOO Alimeter Range, SSHA, SWH           CS_OFFL_SIR_JOPM_2_20211111200024_00211111120059_0001         COOS Alimeter Range SuB Statescatter Quality         The OCOO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range SuB, SWH           CS_OFFL_SIR_JOPM_2_20211111720054_00211111720059_0001         COOS Alimeter Range SuB, SWH         The OCOO Alimeter Range SuB, SWH and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range SuB, SWH and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO Alimeter Range and Backscatter Quality Fags have been at the OCO	CS_OFFL_SIR_IOPM_2_20211111T185411_20211111T185510_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Control         Description         Description <thdescription< th=""> <thdescription< th=""> <th< td=""><td>CS_OFFL_SIR_IOPM_2_20211111T190010_20211111T190340_C001</td><td></td><td></td></th<></thdescription<></thdescription<>	CS_OFFL_SIR_IOPM_2_20211111T190010_20211111T190340_C001		
CS_OFFL_SIR_JOPM_2_20211111791102.02111117200529_0001       and Backscatter Quality. COCG       and Backscatter Quality. COCG       and Backscatter Quality. COCG         CS_OFFL_SIR_JOPM_2_202111117200624_202111117200529_0001       OCCGA Altimeter Range and Backscatter Quality. COCG       The OCCGA Altimeter Range and Backscatter Quality. Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117201046_202111117203429_0001       OCCGA Altimeter Range SN4, SWH and Backscatter Quality. Flags have been set for one or more records.       The OCCGA Altimeter Range and Backscatter Quality. Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117201046_202111117204555_0001       OCCGA Altimeter Range Quality. OCCG       The OCCGA Altimeter Range and Backscatter Quality. Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117204303_0202111117204630_0001       OCCGA Altimeter Range Quality. OCCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117204303_0202111117214248_0001       OCCGA Altimeter Range SN4, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117204305_002111117214248_0001       OCCGA Altimeter Range SN4, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117213647_002111117214248_0001       OCCGA Altimeter Range SN4, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117213647_002111117214248_001       OCCGA Altimeter R	CS_OFFL_SIR_IOPM_2_20211111T190403_20211111T190730_C001		
OS_OPE_SIN_DOPM_2_SULTITIE2004_2021111120046_2021111120455_C001         Occan Altimeter Range And Backscatter Quality         Occon Altimeter Range Cuality, COCG           CS_OFFL_SIR_JOPM_2_2021111120046_20211111204630_C001         CCCG Altimeter Range Quality, COCG         The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPM_2_202111117204630_C001         CCCG Altimeter Range Cuality, COCG         The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPM_2_202111117204630_C001         CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPM_2_202111117204630_C0011         CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPM_2_2021111172047_20211111721428_C001         Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPM_2_20211111721647_20211111721991_C001         Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set in a Backscatter Quality, COCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.           CS_OFFL_SIR_JOPM_2_20211111722107_C001         Ccean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one o	CS_OFFL_SIR_IOPM_2_20211111T191110_20211111T193717_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_JOPM_2_20211111720146_022111117203429_C001       and Backscatter Quality, COCG         Allimeter Range and Backscatter Quality, COCG       and the COCG Altimeter Range Quality, COCG         CS_OFFL_SIR_JOPM_2_202111117204205_C001       COCG Altimeter Range Quality, COCG         QS_OFFL_SIR_JOPM_2_202111117204303_202111117204680_C001       COCG Altimeter Range Quality, COCG         QS_OFFL_SIR_JOPM_2_202111117204303_202111117204680_C001       COCG Altimeter Range Quality, COCG         QS_OFFL_SIR_JOPM_2_202111117204303_20211111721428_C001       COCG Altimeter Range SHA, SWH and Backscatter Quality Flags have been set for one or more records.         QS_OFFL_SIR_JOPM_2_20211111720469_20211111721428_C001       Cocan Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         QS_OFFL_SIR_JOPM_2_202111117213647_202111117213911_C001       Cocan Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117213647_202111117213911_C001       Cocan Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_20211111722045_20211111722107_C001       Cocan Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_20211111722045_20211111722107_C001       Cocan Altimeter Range, SHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_JOPM_2_202111117221756_202111117221762_001       Cocan Altimeter Range and Backscatter Qual	CS_OFFL_SIR_IOPM_2_20211111T200024_20211111T200529_C001		
US_OFFL_SIR_IOPM_2_20211111204303_20211111204630_0001       Backscatter Quality       for one or more records.         OS_OFFL_SIR_IOPM_2_202111117204303_202111117204630_0001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         OS_OFFL_SIR_IOPM_2_202111117205136_20211111721428_0001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality COCG       The Ocean Altimeter Range and Backscatter Quality COCG         OS_OFFL_SIR_IOPM_2_202111117213647_202111117213911_0001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been at timeter Range and Backscatter Quality COCG       The Ocean Altimeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at timeter Range and Backscatter Quality Flags have been at for one rome records.         OS_OFFL_SIR_IOPM_2_20211111722107_0001       Ocean Altimeter Range Quality, OCCG       The Ocean Altimeter Range and Backscatter Quality Flags have been at for one rome records.         OS_OFFL_SIR_IOPM_2_202111117221766_202111117220407_0001       Ocean Altimeter Range ADBackscatter Quality Flags have been at for one rome records.         OS_OFFL_SIR_IOPM_2_202111117231627_202111117231627_202111117231627_202111117231627_202111117231645_2001       Ocean Altimeter Range ADBackscatter Qualit	CS_OFFL_SIR_IOPM_2_20211111T201046_20211111T203429_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
US_OFFL_SIR_IOPM_2_2021111120430_2021111120430_0001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_202111117205136_202111117212428_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, COGG Altimeter Range and Backscatter Quality COGG Altimeter Range and Backscatter Quality COGG Altimeter Range and Backscatter Quality COGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality, COGG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags Altimeter Range, and Backscatter Quality, COCG Altimeter Range, and Backscatter Quality Flags have been Altimeter Range, and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_202111117231627_2021111117231627_20211111723162_C001 <t< td=""><td>CS_OFFL_SIR_IOPM_2_20211111T203757_20211111T204255_C001</td><td></td><td></td></t<>	CS_OFFL_SIR_IOPM_2_20211111T203757_20211111T204255_C001		
CS_OFFL_SIR_IOPM_2_20211111T201362_20211111T212428_C001       and Backscatter Quality, CCCG Altimeter Range and Backscatter Quality of come or more records.         CS_OFFL_SIR_IOPM_2_2021111T213647_20211111T213911_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, CCCG Altimeter Range, SSHA, SWH and Backscatter Quality, CCCG Altimeter Range, SSHA, SWH and Backscatter Quality, CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T220945_20211111T221107_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20211111T221756_20211111T2210407_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality, OCCG Altimeter Range and Backscatter Quality Flags have been altimeter Range, astin, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, astin, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, astin, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality, CCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been altimeter Range, SSHA, SWH and Backscatter Quality, CCCG Altimeter Range, SSHA, SWH and Backscatter Quality, Flags have been ast for one or more records.	CS_OFFL_SIR_IOPM_2_20211111T204303_20211111T204630_C001		
CS_OFFL_SIR_IOPM_2_20211111T213647_20211111T213911_C001       and Backscatter Quality, COCG Altimeter Range and Backscatter Quality       and the OCOG Altimeter Range and Backscatter Quality         CS_OFFL_SIR_IOPM_2_20211111T220945_20211111T221107_C001       Ocean Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG       The Ocean Altimeter Range and Backscatter Quality Flags have been and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T221756_20211111T22327_C001       OCCG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T223046_20211111T230407_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T231627_20211111T231745_C001       Ocean Altimeter Range Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T231906_20211111T231922_C001       OCCG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T231926_20211111T231922_C001       Ocean Altimeter Range Quality, OCOG Backscatter Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. <td>CS_OFFL_SIR_IOPM_2_20211111T205136_20211111T212428_C001</td> <td>and Backscatter Quality, OCOG</td> <td>and the OCOG Altimeter Range and Backscatter Quality Flags have been</td>	CS_OFFL_SIR_IOPM_2_20211111T205136_20211111T212428_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211111T220945_20211111T221107_C001       and Backscatter Quality, OCOG Attimeter Range and Backscatter Quality, Sector Quality, Secor Sector Quality, Sector Quality, Sector	CS_OFFL_SIR_IOPM_2_20211111T213647_20211111T213911_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211111223046_202111112230407_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_20211111723046_202111117230407_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_202111117231627_202111117231627_202111117231745_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality, OCOG Altimeter Range Quality, OCOG       The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_202111117231906_202111117231922_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality       The OCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_202111117231926_202111117231922_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality       The OCCG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_202111117233554_202111117235142_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_202111117235717_2021111172300224_C001       OCOG Altimeter Range Quality, OCOG       The OCCG Altimeter Range and Backscatter Quality Flags have been set for one or more reco	CS_OFFL_SIR_IOPM_2_20211111T220945_20211111T221107_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211111T23046_20211111T230407_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T231627_20211111T231745_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been Altimeter Range and Backscatter Quality, OCOG       The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T231906_20211111T231922_C001       OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T231906_20211111T231922_C001       OCCGA Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T233554_20211111T235142_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T235717_20211111T235142_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIB_IOPM_2_20211111T235717_20211111T235142_C001       OCCGA Altimeter Range Quality, OCCG       The OCCGA Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIB_IOPM_2_20211111T235717_2021111127000224_C001       OCCGA Altimeter Range Quality, OCCG       The OCCGA Altimeter Range and Backscatter Quality Flags have b	CS_OFFL_SIR_IOPM_2_20211111T221756_20211111T222327_C001		
CS_OFFL_SIR_IOPM_2_20211111T231627_20211111T231745_C001       and Backscatter Quality, OCOG       and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T231906_20211111T231922_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T233554_20211111T235142_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T233554_20211111T235142_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T233554_20211111T235142_C001       Ocean Altimeter Range and Backscatter Quality       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.         CS_OFFL_SIR_IOPM_2_20211111T235717_20211111T2300224_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.	CS_OFFL_SIR_IOPM_2_20211111T223046_20211111T230407_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211111231906_20211111231922_C001       Backscatter Quality       for one or more records.         CS_OFFL_SIR_IOPM_2_202111111233554_202111111235142_C001       Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags 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         CS_OFFL_SIR_IOPM_2_202111111235717_202111127000224_C001       OCOG Altimeter Range Quality, OCOG       The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20211111T231627_20211111T231745_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20211111T233554_20211111T235142_C001 and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. CS_OFFL_SIR_IOPM_2_20211111T235717_20211112T000224_C001 OCOG Altimeter Range Quality, OCOG The OCOG Altimeter Range and Backscatter Quality Flags have been set	CS_OFFL_SIR_IOPM_2_20211111T231906_20211111T231922_C001		
	CS_OFFL_SIR_IOPM_2_20211111T233554_20211111T235142_C001	and Backscatter Quality, OCOG	and the OCOG Altimeter Range and Backscatter Quality Flags have been
Dachocatter Gudity IVI INDIA RECORDS.	CS_OFFL_SIR_IOPM_2_20211111T235717_20211112T000224_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_20211111T014710_20211111T014730_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_20211111T023201_20211111T023427_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_20211111T062600_20211111T062735_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_20211111T091354_20211111T091518_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_20211111T100326_20211111T100426_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_20211111T112632_20211111T112645_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_20211111T212634_20211111T212741_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_20211111T222328_20211111T222645_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_20211111T014241_20211111T014403_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_20211111T110657_20211111T110910_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_20211111T113347_20211111T114504_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_20211111T142944_20211111T143006_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_20211111T154525_20211111T154531_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_20211111T185324_20211111T185411_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_20211111T195722_20211111T200004_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_20211111T212615_20211111T212634_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_20211111T214731_20211111T214910_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

#### L2 Quality Flags (20Hz PLRM)

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

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

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

Number of products with errors:	88

Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20211111T002245_20211111T002557_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_20211111T004655_20211111T004957_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_20211111T005254_20211111T005633_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_20211111T014403_20211111T014447_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_20211111T035022_20211111T035127_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_20211111T045719_20211111T045801_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_20211111T050215_20211111T050424_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_20211111T055524_20211111T055727_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_20211111T064129_20211111T064615_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_20211111T072434_20211111T072601_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_20211111T072743_20211111T072848_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_20211111T094953_20211111T095116_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_20211111T105226_20211111T105337_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_20211111T112645_20211111T112701_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_20211111T122126_20211111T122546_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_20211111T130920_20211111T131010_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_20211111T131056_20211111T131505_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_20211111T135925_20211111T140045_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_20211111T145943_20211111T150031_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_20211111T160755_20211111T161110_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_20211111T163105_20211111T163316_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_20211111T172614_20211111T173039_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_20211111T180748_20211111T181140_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_20211111T183224_20211111T183230_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_20211111T190730_20211111T190913_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_20211111T200014_20211111T200023_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_20211111T200530_20211111T200636_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_20211111T203628_20211111T203757_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_20211111T212634_20211111T212741_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_20211111T213514_20211111T213537_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_20211111T215048_20211111T215154_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_20211111T215455_20211111T215633_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_20211111T215650_20211111T220024_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_20211111T221639_20211111T221756_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_20211111T222328_20211111T222645_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_20211111T231440_20211111T231533_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_20211111T232218_20211111T232244_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_20211111T232346_20211111T232430_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_20211111T235600_20211111T235716_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_20211110T235634_20211111T000344_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_20211111T000344_20211111T000527_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_20211111T001025_20211111T001402_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_20211111T001449_20211111T001540_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_20211111T001715_20211111T001752_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_20211111T004259_20211111T004655_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_20211111T005633_20211111T005725_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_20211111T005731_20211111T010006_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_20211111T013625_20211111T013742_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_20211111T013800_20211111T014241_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_20211111T031602_20211111T032121_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_20211111T044009_20211111T044140_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_20211111T045802_20211111T045840_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_20211111T045840_20211111T050215_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_20211111T050424_20211111T050526_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_20211111T054304_20211111T054457_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_20211111T062123_20211111T062157_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_20211111T063406_20211111T064128_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_20211111T072156_20211111T072434_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_20211111T073541_20211111T073800_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_20211111T081358_20211111T082200_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_20211111T085956_20211111T090412_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_20211111T094151_20211111T094329_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_20211111T094441_20211111T094618_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_20211111T100427_20211111T100459_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_20211111T105338_20211111T105909_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_20211111T110657_20211111T110910_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_20211111T113347_20211111T114504_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_20211111T123250_20211111T123636_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_20211111T131506_20211111T132233_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_20211111T141053_20211111T141714_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_20211111T145407_20211111T145942_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_20211111T163317_20211111T164009_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_20211111T165352_20211111T170207_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_20211111T171625_20211111T171719_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_20211111T180538_20211111T180623_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_20211111T181140_20211111T181653_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_20211111T181728_20211111T181851_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_20211111T194927_20211111T195715_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_20211111T195722_20211111T200004_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_20211111T204808_20211111T205135_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_20211111T212742_20211111T213513_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_20211111T213912_20211111T214030_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_20211111T214731_20211111T214910_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_20211111T221107_20211111T221638_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_20211111T222646_20211111T223046_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_20211111T230408_20211111T231316_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_20211111T231923_20211111T232214_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_20211111T235142_20211111T235600_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.

L2 Quality Flags (1 Hz & 1Hz PLRM)						
Currently, there are several common flags raised in the Level 2 products, which are summarised below.						
> 1Hz and 1Hz Ocean SSHA Quality Flags: These flags are currently set for products over sea ice, which is to be expected.						
Number of products with errors: 201						
5.8 L2 Ocean Retracking Quality Check						
L2 Retracking Flags (20Hz) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measure	ment record. The bit value of this flag indic	ates any problems when set.				
Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below.						
Number of products with errors: 73		······································				
L2 Retracking Flags (20Hz, PLRM)						
L2 RETRACTING FIAGS (20112, FLITTIN) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLRM measurement record. The bit value of this flag indicates any problems when set.						
Ocean Retracking Quality Flag (PLRM): This flag is currently set for products IOPR and IOPN products over sea ice, but this is to be expected.						
Number of products with errors: 153						
6. IOP L2 P	ole-to-Pole Data Quality	Check				
6.1 P2P Product Format Check						
	un it consists of both on VML booder file (					
Each product, retrieved and unpacked from the science server, is checked to ensu Number of products with errors: 0	are it consists of both an XML header life (.					
6.2 P2P Product Header Analysis						
For all products, a series of pre-defined checks are performed on the MPH and SF	PH in order to identify any inconsistencies a	and/or errors raised by the ground-segment processing chain.				
Number of products with errors: 0						
6.3 P2P Auxiliary Data File Usage Check						
Each product is checked for missing Data Set Descriptors with respect to a pre-de	torminod baseline and also to shock the v	alidity of Auviliany Data Files is correct				
Number of products with errors: 0						
6.4 P2P Auxiliary Correction Error Check						
For all products, the auxiliary corrections within the Geophysical Group are checked	d for the default error value (32767).					
Currently, there are some common auxiliary correction errors raised in the L followed by a table highlighting any additional issues which may arise from		e to surface type. All common flags are summarised in the list below,				
> ECMWF Meteo Corrections: Currently the following corrections are not comput Correction and the U-Wind and V-Wind components of the ECMWF model wind very extension of the table below.						
not reported in the table below.	uduata avar aga iga, but this is to be avagad	ad .				
> Sea State Bias & Sea State Bias PLRM: The error value is currently set for pro > Mean Sea Surface: The error value is currently set for products over land and s						
> Mean Dynamic Topography: The error value is currently set for products over land and s						
> Altimetric Wind Speed Error: The error value is currently set for products over						
Number of products with errors: 30						
Product	Test Failed	Description				
	Mean Sea Surface (1), Mean Dynamic	There is an error with the MSS height (solution 1) and the Mean Dynamic				
CS_OFFL_SIR_IOP_2_20211110T231310_20211111T000247_C002	Topography (1)	Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T000247_20211111T005225_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T005225_20211111T014202_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T014202_20211111T023139_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T023139_20211111T032117_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T032117_20211111T041054_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T041054_20211111T050031_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T050031_20211111T055009_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records				
CS_OFFL_SIR_IOP_2_20211111T055009_20211111T063946_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T063946_20211111T072924_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T072924_20211111T081901_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				
CS_OFFL_SIR_IOP_2_20211111T081901_20211111T090838_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_2_20211111T090838_20211111T095816_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)				

CS_OFFL_SIR_IOP_2_20211111T095816_20211111T104753_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T104753_20211111T113730_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T113730_20211111T122707_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_220211111T122707_20211111T131645_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20211111T131645_20211111T140622_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_220211111T140622_20211111T145559_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T145559_20211111T154537_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_220211111T154537_20211111T163514_C001	Mean Sea Surface (1), Mean Dynamic Topography (1), Total Geocentric Ocean Tide (GOT)	There is an error with the MSS height (solution 1), the Mean Dynamic Topography (solution 1), the Total Geocentric Ocean Tide (solution 1: GOT) for one or more records
CS_OFFL_SIR_IOP_2_20211111T163514_20211111T172451_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T172451_20211111T181429_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T181429_20211111T190406_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_220211111T190406_20211111T195344_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_220211111T195344_20211111T204321_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T204321_20211111T213258_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T213258_20211111T222236_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T222236_20211111T231213_C001	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
CS_OFFL_SIR_IOP_2_20211111T231213_20211112T000150_C002	Mean Sea Surface (1), Mean Dynamic Topography (1)	There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)
6.5 P2P Measurement Confidence Data Check		
CryoSat P2P data includes a measurement confidence flag for each 20-Hz mea	surement record. The bit value of this flag in	dicates any problems when set.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220211111T041054_20211111T050031_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_220211111T050031_20211111T055009_C001		There is an error in the scaling of the L2 waveform for one or more records
CS_OFFL_SIR_IOP_2_20211111T081901_20211111T090838_C001	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	ach 20 Hz, 20 Hz PLRM and 1 Hz measurement record, copied from the corresponding L2 products.	
Since the P2P Quality Flags are copied dire	ectly 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 (20Hz PLRM)		
Since the P2P Quality Flags are copied dire	ectly 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 PLF	?M)	
Since the P2P Quality Flags are copied dire	ectly from the L2 Quality Flags, please see Section 5.6 for the full list of products affected.	
Number of products with errors:	30	
6.8 P2P Ocean Retracking Qua	lity Check	
P2P Retracking Flags (20Hz)		
55,,,	a quality flag (field 19) for each 20.Hz measurement record. The bit value of this flag indicates any problems when set	

Cryosat P2P data includes an ocean retracking quality flag (field 19) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

Number of products with errors:

#### 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

3

### 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	3	195	0
SIR_IOPR1B	123	109	6	103	0
SIR_IOPN1B	109	123	0	123	0
SIR_IOPM_2	198	198	138	60	0
SIR_IOPR_2	123	109	47	62	0
SIR_IOPN_2	109	123	47	74	2
SIR_IOP_P2P	29	29	0	26	3

### 7.1 QCC Errors

#### Number of QCC reports with errors:

					Total number	of occurrences	of each error				
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
SIR_IOPR_2	2	2	2	2							
Product Type	RLOBOPNCDF	RL	RLOBOPNCDF	RL	-	-	-	-	-	-	-
Froduct Type											
SIR_IOP_2_	3	3	3	3							
	3	3	3	3							
	3	3	3	3							

Abbreviation	Test name	Details
RLOBOPNCDF	RangeLatitudeOrBlankOP_7NetCDF	Latitude should be between -90E7 and 90E7
RL	RangeLatitude_7	Latitude should be between -90E7 and 90E7
RLOBOPNCDF	RangeLongitudeOrBlankOP_7NetCDF	Longitude should be between -180E7 and 180E7
RL	RangeLongitude_7	Longitude should be between -180E7 and 180E7

# 7.2 QCC Warnings

#### Number of QCC reports with warnings

Product Type         BCSHNCDF         IOHHMOOR         MVIOEPFDNCDF         MVIOEPNCDF         MVIOCP         RBSZOP0EPFDNC           SIR_IOPM1B         195         0	0 0 26 0 27
SIR_IOPM_2         0         0         43         43         0         48           SIR_IOPN1B         102         0         0         0         0         0         0           SIR_IOPN_2         0         0         10         30         4         24           SIR_IOPR1B         119         0         0         0         0         0           SIR_IOPR2         0         2         35         46         0         35	0 0 26 0 27
SIR_IOPNIB         102         0         0         0         0         0           SIR_IOPN_2         0         0         10         30         4         24           SIR_IOPR1B         119         0         0         0         0         0           SIR_IOPR_2         0         2         35         46         0         35	0 26 0 27
SIR_IOPN_2         0         10         30         4         24           SIR_IOPR1B         119         0         0         0         0         0           SIR_IOPR_2         0         2         35         46         0         35	26 0 27
SIR_IOPR1B         119         0         0         0         0         0         0           SIR_IOPR_2         0         2         35         46         0         35	0 27
SIR_IOPR_2         0         2         35         46         0         35	27
Product Type RBSZOPOEPNCDF RNELPOTONCDF RPEPOPFDLRMNCDF RPEPOPFDPLRMSARNCI, RPEPOPFDPLRMSINNCD (RPEPOPFDSARNC	CDF RPEPOPFDSINNCDF
SIR_IOPM1B 0 0 0 0 0 0 0	0
SIR_IOPM_2 40 1 38 0 0 0	0
SIR_IOPN1B 0 0 0 0 0	0
SIR_IOPN_2 19 0 0 0 21 0	32
SIR_IOPR1B 0 0 0 0 0 0	0
SIR_IOPR_2 17 0 0 47 0 52	0
	L
Product Type RPEPOPLRMNCDF RPEPOPSARNCDF RPEPOPSINNCDF RSSBCONCDF RSSHAOFDNCDF RSSHAOFDPLRMN	NCDF RSSHAONCDF
SIR_IOPM1B 0 0 0 0 0 0 0	0
SIR_IOPM_2 31 0 0 4 24 0	3
SIR IOPN1B 0 0 0 0 0 0	0
SIR IOPN 2 0 0 25 20 39 57	26
SIR IOPR1B 0 0 0 0 0 0	0
SIR_IOPR_2 0 46 0 2 65 32	14
	L
Product Type RSWHOEPFDNCDF RSWHOEPFDPLRMNCDF RSWHOEPNCDF SOOHHIFHD SCSTODHRNCDF SCSTODNCDF	-
SIR_IOPM1B 0 0 0 0 0 0 0	
SIR_IOPM_2 32 0 2 0 0 0 0	
SIR_IOPN1B 0 0 0 0 46 2	
SIR_IOPN_2 29 26 14 0 0 0	
SIR_IOPR1B 0 0 0 123 10	
SIR_IOPR_2 42 47 1 2 0 0	
	L
	RMNCERBSZOPOEPNCDF
SIR_IOP_2_ 16 29 29 4 29 17	28
Product Type RNELPOTONCDF RPEPOPFDPLRMSINNCD(RPEPOPFDSINNCDF RPEPOPSINNCDF RSSBCONCDF RSSBCONCDF RSSBCONCDF	RSSHAOFDPLRMNCDF
SIR_IOP_2_ 1 16 29 24 20 29	19
Product Type RSSHAONCDF RSWHOEPFDNCDF RSWHOEPFDPLRMNCDF RSWHOEPNCDF SPHLPQWNCDF -	-
SIR_IOP_2_ 27 29 18 14 29	
Product Type	-
SIR_IOP_2_	

Test Description Key:			
Abbreviation	Test name	Details	
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter	
IOHHMOOR	IndexOf1Hzin20HzMappingOutOfRange	The mapping of 20 Hz to 1 Hz measurements should be in the range 0 to (number of 1 Hz samples - 1)	
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees	
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees	
MVIONCDF	MissingValueIntOceanNetCDF	The value should not be a 'missing value' for surface type 0 only	
RBSZOPOEPFDNCDF	RangeBackscatterSigmaZeroOPOceanExcludingPolarFD2NetCDF	The backscatter sigma zero should be between 700 and 7500 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees	
RBSZOPOEPFDPLRM	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
RSWHOEPFDPLRMN	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter
7.3 Missing QCC	CReports	

Number of products with missing QCC reports:

0