

QA4EO Daily Report for IOP data:

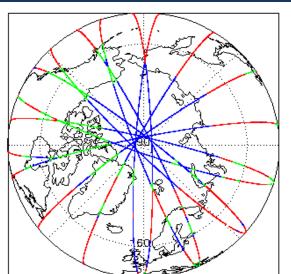
<u>28/07/2020</u>

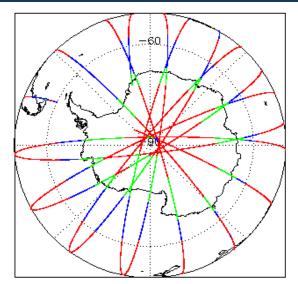
) an aut Dua du atian.	31-Jul-2020	Check	L1 & L2	P2P
Report Production:	31-Jul-2020	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	ed: CryoSat Ocean Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Usea:		Product Software Check	Nominal	Nominal
Deta Lloodu	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	Product Format Check	Nominal	Nominal
Data Used:		Product Header Analysis	Nominal	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	See Section 5.4	See Section 6.4
		Measurement Confidence Data Check	See Section 4.5, 4.6 and 5.5	See Section 6.5
		Range, SWH & Backscatter Measurement Check	See Section 5.6	See Section 6.6
		Ocean Retracking Quality Check	See Section 5.7	See Section 6.7
		QCC Error/ Warning Check	See Section 7.2	See Section 7.2

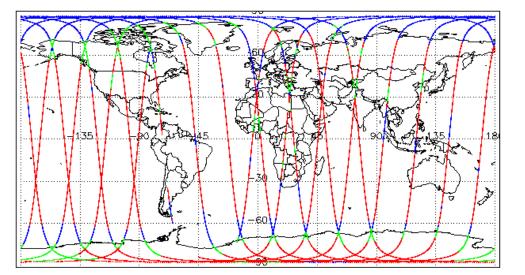
1. Overview

Mission / Instrument News		
27-Jul-2020	CRYO2ICE Orbit raising activities. SIRAL unavailability from 27/07/2020 22:26:11 to 28/07/2020 05:09:47. AUXI IONGIM files continue to be delayed	
28-Jul-2020	CRYO2ICE Orbit raising activities.	
29-Jul-2020	Nothing planned	











3. Instrument Configuration

SIRAL instrument(s) in use:

SIRAL - A

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

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

4.2 L1B Product Header Analysis	ODI to and other to the off	
for all products, a series of pre-defined checks are performed on the MPH and		
1B Processing Quality HR: The T1b_proc_flag_hr flag is currently set all L1 SARIn chains. A modification is required in the next release.	IB IOPR and IOPN products because	the I1b_processing_quality_hr field is not correctly configured in the OSAR and
umber of products with errors: 0		
.3 L1B Auxilary Data File Usage Check		
ach product is checked for missing Data Set Descriptors with respect to a pr	re-determined baseline and also to ch	eck the validity of Auxiliary Data Files is correct.
lumber of products with errors: 0		
1.4 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag for each measurement reco	rd. The bit value of this flag indicates a	any problems when set.
lumber of products with errors: 0		
4.5 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag for each measure	ment record. The bit value of this flag	indicates any problems when set.
Attitude Correction Missing: This flag is currently set in error for IOPR prod	lucts due to a configuration issue. This	is being investigated and will be updated in the next SW update.
Number of products with errors: 3		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20200728T092755_20200728T093328_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20200728T182531_20200728T182854_C001	Power scaling error	There is an error in the scaling of the L1B waveform for one or more records
CS_OFFL_SIR_IOPM1B_20200728T214421_20200728T214812_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 recor	rd. The bit value of this flag indicates a	any problems when set.
oss of Echo Flag: This flag is currently set for products over land, but this is	s to be expected.	
lumber of products with errors: 15		
	Test Failed	Description
Product	Test Failed Loss of Echo	Description The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001		
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001	Loss of Echo	The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T064017_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T083134_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T083134_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001	Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPN1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T083134_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T09524_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T215407_20200728T12652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T084017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T0843134_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001 CS_OFFL_SIR_IOPN1B_20200728T095427_20200728T095524_C001 CS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product DS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 DS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 DS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 DS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 DS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 DS_OFFL_SIR_IOPN1B_20200728T082659_20200728T083134_C001 DS_OFFL_SIR_IOPN1B_20200728T094532_20200728T0841728_C001 DS_OFFL_SIR_IOPN1B_20200728T094532_20200728T0945244_C001 DS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 DS_OFFL_SIR_IOPN1B_20200728T145424_20200728T145704_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
Product SS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 SS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 SS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 SS_OFFL_SIR_IOPM1B_20200728T205407_20200728T214202_C001 SS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 SS_OFFL_SIR_IOPN1B_20200728T082659_20200728T083134_C001 SS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001 SS_OFFL_SIR_IOPN1B_20200728T095427_20200728T095524_C001 SS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 SS_OFFL_SIR_IOPN1B_20200728T145424_20200728T145704_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
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Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T12652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T084017_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_0200728T094728_C001 CS_OFFL_SIR_IOPN1B_20200728T095427_20200728T095524_C001 CS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 CS_OFFL_SIR_IOPN1B_20200728T163125_20200728T145704_C001 CS_OFFL_SIR_IOPN1B_20200728T163125_0200728T163547_C001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195858_C001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T13019_C001	Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records The tracking echo is missing for one or more records
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Product SS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 SS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 SS_OFFL_SIR_IOPM1B_20200728T205407_20200728T12652_C001 SS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 SS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 SS_OFFL_SIR_IOPN1B_20200728T082659_20200728T084017_C001 SS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001 SS_OFFL_SIR_IOPN1B_20200728T094532_20200728T095524_C001 SS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 SS_OFFL_SIR_IOPN1B_20200728T145424_20200728T145704_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_0200728T1305952 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_0200728T145704_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_0200728T113019_C001 SS_OFFL_SIR_IOPN1B_20200728T19218412716_20200728T113019_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_20200728T191350_C001 SS_OFFL_SIR_IOPR1B_20200728T19230842_20200728T31601_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T12652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T084017_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T095524_C001 CS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 CS_OFFL_SIR_IOPN1B_20200728T145424_20200728T145704_C001 CS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T163547_C001 CS_OFFL_SIR_IOPN1B_20200728T191325_0200728T133019_C001 CS_OFFL_SIR_IOPN1B_20200728T191128_20200728T11350_C001 CS_OFFL_SIR_IOPN1B_20200728T191128_20200728T191350_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking e
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T12652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T084017_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_0200728T094728_C001 CS_OFFL_SIR_IOPN1B_20200728T095427_20200728T095524_C001 CS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 CS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 CS_OFFL_SIR_IOPN1B_20200728T163125_0200728T163547_C001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195858_C001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T1950_001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T1950_001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T19150_C001 CS_OFFL_SIR_IOPR1B_20200728T191128_20200728T19150_C001 CS_OFFL_SIR_IOPR1B_20200728T191128_20200728T19150_C001 CS_OFFL_SIR_IOPR1B_20200728T1920842_20200728T231601_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for
Involuct SS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 SS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 SS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 SS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 SS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 SS_OFFL_SIR_IOPN1B_20200728T082659_20200728T084017_C001 SS_OFFL_SIR_IOPN1B_20200728T094532_0200728T094728_C001 SS_OFFL_SIR_IOPN1B_20200728T094532_0200728T094728_C001 SS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T1345704_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 SS_OFFL_SIR_IOPN1B_20200728T113511_20200728T195858_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195858_C001 SS_OFFL_SIR_IOPN1B_20200728T192811320200728T193502_001 SS_OFFL_SIR_IOPN1B_20200728T1928112716_20200728T193502_001 SS_OFFL_SIR_IOPR1B_20200728T191128_20200728T19350_C001 SS_OFFL_SIR_IOPR1B_20200728T1930842_20200728T19350_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_0200728T19350_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_0200728T19350_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_20200728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T1930842_20200728T231601_C001	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for
Involuct SS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 SS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 SS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 SS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 SS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 SS_OFFL_SIR_IOPN1B_20200728T082659_20200728T084017_C001 SS_OFFL_SIR_IOPN1B_20200728T094532_0200728T094728_C001 SS_OFFL_SIR_IOPN1B_20200728T095427_20200728T095524_C001 SS_OFFL_SIR_IOPN1B_20200728T131311_20200728T13424_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T145704_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195858_C001 SS_OFFL_SIR_IOPN1B_20200728T1915843_20200728T1950524_001 SS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195058_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195058_C001 SS_OFFL_SIR_IOPN1B_20200728T191128_0200728T191300_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_0200728T19350_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_0200728T191350_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_20200728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_20200728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_0200728T191350_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_20200728T231601_C	Loss of Echo Loss of Echo	The tracking echo is missing for one or more records The tracking echo is missing for
Induct SS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 SS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 SS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 SS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 SS_OFFL_SIR_IOPN1B_20200728T063943_20200728T064017_C001 SS_OFFL_SIR_IOPN1B_20200728T082659_20200728T083134_C001 SS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001 SS_OFFL_SIR_IOPN1B_20200728T095427_20200728T095524_C001 SS_OFFL_SIR_IOPN1B_20200728T131311_20200728T1345704_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 SS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195858_C001 SS_OFFL_SIR_IOPN1B_20200728T191543_20200728T1350_C001 SS_OFFL_SIR_IOPN1B_20200728T195843_20200728T19150S_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_20200728T19150_C001 SS_OFFL_SIR_IOPR1B_20200728T191128_20200728T19150_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_20200728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_20200728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_0020728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_20200728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_0020728T231601_C001 SS_OFFL_SIR_IOPR1B_20200728T230842_00200728T231601_C0	Loss of Echo Loss of Echo DP Level 2 Data Qualit	The tracking echo is missing for one or more records The tracking echo is missing for
Product CS_OFFL_SIR_IOPM1B_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM1B_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM1B_20200728T205407_20200728T212652_C001 CS_OFFL_SIR_IOPM1B_20200728T214106_20200728T214202_C001 CS_OFFL_SIR_IOPM1B_20200728T063943_20200728T064017_C001 CS_OFFL_SIR_IOPN1B_20200728T082659_20200728T0843134_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T094728_C001 CS_OFFL_SIR_IOPN1B_20200728T094532_20200728T095524_C001 CS_OFFL_SIR_IOPN1B_20200728T131311_20200728T131424_C001 CS_OFFL_SIR_IOPN1B_20200728T163125_20200728T145704_C001 CS_OFFL_SIR_IOPN1B_20200728T163125_20200728T163547_C001 CS_OFFL_SIR_IOPN1B_20200728T195843_20200728T195858_C001 CS_OFFL_SIR_IOPN1B_20200728T191128_20200728T19150_C001 CS_OFFL_SIR_IOPN1B_20200728T191128_0200728T191350_C001 CS_OFFL_SIR_IOPN1B_20200728T191128_0200728T191350_C001 CS_OFFL_SIR_IOPN1B_20200728T191128_0200728T191350_C001 CS_OFFL_SIR_IOPR1B_20200728T191128_0200728T191350_C001 CS_OFFL_SIR_IOPR1B_20200728T191128_0200728T191350_C001 CS_OFFL_SIR_IOPR1B_20200728T191128_0200728T191350_C001 CS_OFFL_SIR_IOPR1B_20200728T191128_0200728T191350_C001 CS_OFFL_SIR_IOPR1B_20200728T191350_C001 CS_OFFL_SIR_IOPR1B_20200728T191350_C001	Loss of Echo Loss of Echo DP Level 2 Data Qualit	The tracking echo is missing for one or more records The tracking echo is missing for

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. 0

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.

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200728T183351_20200728T185810_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_20200728T054739_20200728T054929_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_20200728T055745_20200728T060007_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_20200728T064454_20200728T064917_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_20200728T082659_20200728T083134_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_20200728T090714_20200728T091050_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_20200728T091627_20200728T091742_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_20200728T094532_20200728T094728_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_20200728T104636_20200728T104955_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_20200728T113722_20200728T113834_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_20200728T123412_20200728T123520_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_20200728T131637_20200728T131739_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_20200728T131744_20200728T131749_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_20200728T141116_20200728T141305_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_20200728T145424_20200728T145704_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_20200728T163125_20200728T163547_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_20200728T172021_20200728T172300_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_20200728T172924_20200728T173233_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_20200728T181022_20200728T181410_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_20200728T191010_20200728T191128_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_20200728T221922_20200728T222047_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_20200728T222607_20200728T222915_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_20200728T064018_20200728T064454_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_20200728T081757_20200728T082659_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_20200728T095812_20200728T100559_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_20200728T113834_20200728T114626_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_20200728T131749_20200728T132502_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_20200728T145704_20200728T150440_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_20200728T163547_20200728T164303_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_20200728T181410_20200728T182248_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_20200728T195104_20200728T195843_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_20200728T213037_20200728T213701_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_20200728T213701_20200728T213928_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_20200728T230842_20200728T231601_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_20200728T231601_20200728T231737_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: 3		
Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200728T092755_20200728T093328_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_20200728T182531_20200728T182854_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_20200728T214421_20200728T214812_C001	Power scaling error	There is an error in the scaling of the L2 waveform for one or more records

5.6 L2 Measurement Quality Flag Check

L2 Quality Flags (20Hz)

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

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20200728T051415_20200728T054557_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_20200728T055200_20200728T055745_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_20200728T060149_20200728T062550_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_20200728T065754_20200728T065948_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_20200728T065952_20200728T072441_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_20200728T073140_20200728T073607_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_20200728T074046_20200728T080737_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_20200728T081153_20200728T081757_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_20200728T083134_20200728T090257_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_20200728T091051_20200728T091627_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_20200728T091943_20200728T092412_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_20200728T093449_20200728T094151_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_20200728T095524_20200728T095744_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_20200728T101012_20200728T104259_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_20200728T104955_20200728T105507_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_20200728T110021_20200728T111653_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_20200728T113447_20200728T113515_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_20200728T114628_20200728T121036_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_20200728T121124_20200728T122146_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_20200728T122717_20200728T122955_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_20200728T123002_20200728T123009_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_20200728T123012_20200728T123412_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_20200728T123859_20200728T130508_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_20200728T130523_20200728T131249_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_20200728T132503_20200728T133931_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_20200728T134412_20200728T134551_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_20200728T134553_20200728T135736_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_20200728T135758_20200728T140112_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality	set for one or more records.
CS_OFFL_SIR_IOPM_2_20200728T140914_20200728T141116_C001	Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality	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_20200728T140914_20200728T141116_C001 CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001	OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set
	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM_2_20200728T152612_20200728T154006_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range and Backscatter Quality Ocean Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM_2_20200728T152612_20200728T154006_C001 CS_OFFL_SIR_IOPM_2_20200728T154302_20200728T154807_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality	The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range 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_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM_2_20200728T152612_20200728T154006_C001 CS_OFFL_SIR_IOPM_2_20200728T154302_20200728T154807_C001 CS_OFFL_SIR_IOPM_2_20200728T155658_20200728T155735_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality OCOG Altimeter Range Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags number of the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags number of more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The 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. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM_2_20200728T152612_20200728T154006_C001 CS_OFFL_SIR_IOPM_2_20200728T154302_20200728T154807_C001 CS_OFFL_SIR_IOPM_2_20200728T155658_20200728T155735_C001 CS_OFFL_SIR_IOPM_2_20200728T161615_20200728T161824_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags number of the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags number of more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The 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. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM_2_20200728T152612_20200728T154006_C001 CS_OFFL_SIR_IOPM_2_20200728T154302_20200728T154807_C001 CS_OFFL_SIR_IOPM_2_20200728T155658_20200728T155735_C001 CS_OFFL_SIR_IOPM_2_20200728T161615_20200728T161824_C001 CS_OFFL_SIR_IOPM_2_20200728T161947_20200728T162647_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG	 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The 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. The OCCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Alti
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM_2_20200728T152612_20200728T154006_C001 CS_OFFL_SIR_IOPM_2_20200728T154302_20200728T154807_C001 CS_OFFL_SIR_IOPM_2_20200728T155658_20200728T155735_C001 CS_OFFL_SIR_IOPM_2_20200728T161615_20200728T161824_C001 CS_OFFL_SIR_IOPM_2_20200728T161947_20200728T162647_C001 CS_OFFL_SIR_IOPM_2_20200728T161947_20200728T162647_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags number of the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags number of the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The 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. The OCOG Altimeter Range 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. The OCOG Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backs
CS_OFFL_SIR_IOPM_2_20200728T141953_20200728T143232_C001 CS_OFFL_SIR_IOPM_2_20200728T143446_20200728T145249_C001 CS_OFFL_SIR_IOPM_2_20200728T151405_20200728T152336_C001 CS_OFFL_SIR_IOPM_2_20200728T152612_20200728T154006_C001 CS_OFFL_SIR_IOPM_2_20200728T154302_20200728T154807_C001 CS_OFFL_SIR_IOPM_2_20200728T155658_20200728T155735_C001 CS_OFFL_SIR_IOPM_2_20200728T161615_20200728T161824_C001 CS_OFFL_SIR_IOPM_2_20200728T161947_20200728T162647_C001 CS_OFFL_SIR_IOPM_2_20200728T170306_20200728T171904_C001 CS_OFFL_SIR_IOPM_2_20200728T172301_20200728T172724_C001	OCOG Altimeter Range Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Backscatter Quality, OCOG Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality Ocean Altimeter Range Quality, OCOG Backscatter Quality	 The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags nucleon set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The 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. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags have been set for one or more records. The Ocean Altimeter Range and Backscatter Quality Flags have been set for one or more records. The OCOG Altimeter Range and Backscatter Quality Flags have been set for one or mor

CS_OFFL_SIR_IOPM_2_20200728T182248_20200728T182403_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_20200728T183351_20200728T185810_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_20200728T190117_20200728T190639_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_20200728T190645_20200728T191010_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_20200728T191350_20200728T194046_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_20200728T194211_20200728T194528_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_20200728T200903_20200728T201202_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_20200728T201205_20200728T203745_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_20200728T204107_20200728T204917_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_20200728T205407_20200728T212652_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_20200728T213929_20200728T214059_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_20200728T221036_20200728T221610_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_20200728T222047_20200728T222607_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_20200728T223308_20200728T225418_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_20200728T225704_20200728T230841_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_20200728T231807_20200728T232237_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_20200728T233825_20200728T234309_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_20200728T234457_20200728T235514_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_20200728T062550_20200728T062618_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_20200728T063421_20200728T063438_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_20200728T094158_20200728T094200_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_20200728T140155_20200728T140336_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_20200728T154116_20200728T154301_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_20200728T172724_20200728T172730_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_20200728T195843_20200728T195858_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_20200728T231737_20200728T231807_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.
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CS_OFFL_SIR_IOPR_2_20200728T123520_20200728T123859_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_20200728T155816_20200728T160048_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_20200728T162648_20200728T162659_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_20200728T194046_20200728T194211_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_20200728T195104_20200728T195843_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_20200728T232832_20200728T232952_C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality, OCOG Altimeter Range and Backscatter Quality	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been set for one or more records.

L2 Quality Flags (20Hz PLRM)

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

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

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

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Product	Test Failed	Description
CS_OFFL_SIR_IOPN_2_20200728T051004_20200728T051039_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_20200728T051252_20200728T051415_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T055141_20200728T055200_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T055745_20200728T060007_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_20200728T063556_20200728T063609_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T064958_20200728T065120_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T065427_20200728T065712_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T072712_20200728T072852_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T073005_20200728T073139_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T073607_20200728T073854_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T082659_20200728T083134_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_20200728T091627_20200728T091742_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_20200728T093328_20200728T093448_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T094532_20200728T094728_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T094819_20200728T094833_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T100831_20200728T101012_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.
CS_OFFL_SIR_IOPN_2_20200728T104636_20200728T104955_C001	OCOG Altimeter Range Quality PLRM, OCOG Backscatter Quality	The OCOG Range and Backscatter Quality Flags have been set for one o more records.

CS OFFL SIR IOPN 2 20200728T105508 20200728T105633 C001	Ocean Altimeter Range, SSHA, SWH and Backscatter Quality PLRM, OCOG	The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags and the OCOG Altimeter Range and Backscatter Quality Flags have been
	Altimeter Range and Backscatter Quality PLRM Ocean Altimeter Range, SSHA, SWH	set for one or more records. The Ocean Altimeter Range, SSHA, SWH and Backscatter Quality Flags
CS_OFFL_SIR_IOPN_2_20200728T122349_20200728T122717_C001	and Backscatter Quality PLRM, OCOG Altimeter Range and Backscatter Quality PLRM	and the OCG Altimeter Range and Backscatter Quality Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20200728T145424_20200728T145704_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_20200728T151021_20200728T151405_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_20200728T154116_20200728T154301_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_20200728T162659_20200728T162821_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_20200728T163125_20200728T163547_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_20200728T172924_20200728T173233_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_20200728T180820_20200728T180942_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_20200728T181022_20200728T181410_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_20200728T190002_20200728T190117_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_20200728T194528_20200728T195104_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_20200728T200012_20200728T200102_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_20200728T203943_20200728T204107_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_20200728T212652_20200728T212828_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_20200728T212903_20200728T213037_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_20200728T214059_20200728T214105_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_20200728T214904_20200728T215107_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_20200728T215944_20200728T220001_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_20200728T222607_20200728T222915_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_20200728T233453_20200728T233824_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_20200728T080857_20200728T080922_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_20200728T081757_20200728T082659_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_20200728T090257_20200728T090714_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_20200728T091742_20200728T091943_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_20200728T092412_20200728T092755_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_20200728T095114_20200728T095425_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_20200728T095812_20200728T100559_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_20200728T100736_20200728T100830_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_20200728T104259_20200728T104635_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_20200728T105633_20200728T110021_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_20200728T113019_20200728T113447_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_20200728T113834_20200728T114626_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_20200728T122146_20200728T122348_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_20200728T123520_20200728T123859_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_20200728T131749_20200728T132502_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_20200728T141305_20200728T141953_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_20200728T143232_20200728T143341_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_20200728T145704_20200728T150440_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_20200728T155816_20200728T160048_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_20200728T165638_20200728T170059_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_20200728T173234_20200728T173442_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_20200728T181410_20200728T182248_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_20200728T191128_20200728T191350_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_20200728T203746_20200728T203943_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_20200728T205032_20200728T205406_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_20200728T214202_20200728T214232_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_20200728T215107_20200728T215143_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_20200728T221610_20200728T221921_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_20200728T222915_20200728T223308_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_20200728T232237_20200728T232615_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_20200728T235515_20200728T235906_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	r products over sea ice, which is to be expected	1.			
Number of products with errors: 142					
5.8 L2 Ocean Retracking Quality Check					
L2 Retracking Flags (20Hz)					
CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz mea	-				
Ocean Retracking Quality Flag: This flag is currently set for products over la Number of products with errors: 49	and and sea ice, but this is to be expected. The	number of products with this error flag set is given below.			
L2 Retracking Flags (20Hz, PLRM) CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz PLR	M measurement record. The bit value of this fl	an indicates any problems when set			
Ocean Retracking Quality Flag (PLRM): This flag is currently set for product					
Number of products with errors: 116					
6. IOP L	2 Pole-to-Pole Data Quality	⁷ Check			
6.1 P2P Product Format Check					
Each product, retrieved and unpacked from the science server, is checked to	ensure it consists of both an XML beader file (HDR) and a NetCDE product file (nc)			
Number of products with errors: 0					
6.2 P2P Product Header Analysis					
For all products, a series of pre-defined checks are performed on the MPH an	d SPH in order to identify any inconsistencies	and/or errors raised by the ground-seament 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 pr	e-determined baseline and also to check the v	alidity of Auxiliary Data Files is correct.			
Number of products with errors: 0					
	6 4 P2P Auxiliary Correction Error Check				
followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win	he Level 2 products which are expected due om this test. mputed over CONTINENTAL ICE: Dry Troposp	heric Corection, Wet Tropospheric Correction, Inverse Barometric			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products of	he Level 2 products which are expected dur- rom this test. mputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected and sea ice, but this is to be expected. over land and sea ice, but this is to be expected.	wheric Corection, Wet Tropospheric Correction, Inverse Barometric PP-3) and will be resolved in a future IPF update. The affected products are red.			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set fo > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products or > Altimetric Wind Speed Error: The error value is currently set for products or Number of products with errors: 23	he Level 2 products which are expected dur- rom this test. mputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected and sea ice, but this is to be expected. over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected	oheric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed. I.			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products of	he Level 2 products which are expected dur- rom this test. mputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected and sea ice, but this is to be expected. over land and sea ice, but this is to be expected.	oheric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed. I. d. Description There is an error with the Mean Dynamic Topography height for one or			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products of Number of products with errors: 23 Product	he Level 2 products which are expected due rom this test. mputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected and sea ice, but this is to be expected. over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected Test Failed Mean Dynamic Topography (1)	beric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ed.			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products of Number of products with errors: 23 Product CS_OFFL_SIR_IOP_2_20200728T050315_20200728T055253_C001	he Level 2 products which are expected dur rom this test. mputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected and sea ice, but this is to be expected. over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected	berric Corection, Wet Tropospheric Correction, Inverse Barometric IP-3) and will be resolved in a future IPF update. The affected products are ed. d. Description There is an error with the Mean Dynamic Topography height for one or more records			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products of > Altimetric Wind Speed Error: The error value is currently set for products of Number of products with errors: 23 Product	he Level 2 products which are expected dur rom this test. mputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected and sea ice, but this is to be expected. over land and sea ice, but this is to be expected over land and sea ice, but this is to be expected Test Failed Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	Correction, Wet Tropospheric Correction, Inverse Barometric PP-3) and will be resolved in a future IPF update. The affected products are ed. I. d. Description There is an error with the Mean Dynamic Topography height for one or more records There is an error with the MSS height (solution 1) and the Mean Dynamic Topography height (solution 1)			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products or > Altimetric Wind Speed Error: The error value is currently set for products or Number of products with errors: 23 Product CS_OFFL_SIR_IOP_2_20200728T055253_20200728T064229_C001 CS_OFFL_SIR_IOP_2_20200728T065253_20200728T064229_C001	he Level 2 products which are expected dur rom this test. mputed over CONTINENTAL ICE: Dry Troposp nd vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected and sea ice, but this is to be expected. over land and sea ice, but this is to be expected ver land and sea ice, but this is to be expected Test Failed Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	heric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ed.			
For all products, the auxiliary corrections within the Geophysical Group are ch Currently, there are some common auxiliary correction errors raised in t followed by a table highlighting any additional issues which may arise fr > ECMWF Meteo Corrections: Currently the following corrections are not cor Correction and the U-Wind and V-Wind components of the ECMWF model win not reported in the table below. > Sea State Bias & Sea State Bias PLRM: The error value is currently set for > Mean Sea Surface: The error value is currently set for products over land a > Mean Dynamic Topography: The error value is currently set for products or > Altimetric Wind Speed Error: The error value is currently set for products or Number of products with errors: 23 Product CS_OFFL_SIR_IOP_2_20200728T055253_20200728T055253_C001 CS_OFFL_SIR_IOP_2_20200728T055253_20200728T064229_C001	he Level 2 products which are expected dur rom this test. mputed over CONTINENTAL ICE: Dry Troposp ind vector. This is a known anomaly (CRYO-CC r products over sea ice, but this is to be expected. wer land and sea ice, but this is to be expected. wer land and sea ice, but this is to be expected. Wean and sea ice, but this is to be expected Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic Topography (1) Mean Sea Surface (1), Mean Dynamic	heric Corection, Wet Tropospheric Correction, Inverse Barometric P-3) and will be resolved in a future IPF update. The affected products are ed.			
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CS_OFFL_SIR_IOP_220200728T145842_20200728T154820_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_220200728T154820_20200728T163757_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_220200728T163757_20200728T172735_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_220200728T172735_20200728T181711_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_220200728T181711_20200728T190650_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_220200728T190650_20200728T195626_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_220200728T195626_20200728T204604_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_220200728T204604_20200728T213541_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_220200728T213541_20200728T222519_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_220200728T222519_20200728T231455_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_220200728T231455_20200729T000433_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 D2D Massurament Confidence Data Check		
6.5 P2P Measurement Confidence Data Check		
6.5 P2P Measurement Confidence Data Check CryoSat P2P data includes a measurement confidence flag for each 20-Hz me Number of products with errors: 3		dicates any problems when set.
CryoSat P2P data includes a measurement confidence flag for each 20-Hz me Number of products with errors: 3	easurement record. The bit value of this flag in	
CryoSat P2P data includes a measurement confidence flag for each 20-Hz me		dicates any problems when set. Description There is an error in the scaling of the L2 waveform for one or more records
CryoSat P2P data includes a measurement confidence flag for each 20-Hz me Number of products with errors: 3 Product CS_OFFL_SIR_IOP_220200728T091122_20200728T100059_C001	easurement record. The bit value of this flag in Test Failed Power scaling error	Description There is an error in the scaling of the L2 waveform for one or more records
CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement confidence flag for each 20-	easurement record. The bit value of this flag in Test Failed Power scaling error Power scaling error	Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records
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CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement confidence flag for each 20-	easurement record. The bit value of this flag in Test Failed Power scaling error Power scaling error	Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records
CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement confi	easurement record. The bit value of this flag in Test Failed Power scaling error Power scaling error	Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records
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CryoSat P2P data includes a measurement confidence flag for each 20-Hz measureme	easurement record. The bit value of this flag in Test Failed Power scaling error	Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records esponding L2 products.
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CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 3 Product 3 CS_OFFL_SIR_IOP_2_20200728T091122_20200728T100059_C001 CS_OFFL_SIR_IOP_2_20200728T181711_20200728T190650_C001 CS_OFFL_SIR_IOP_2_20200728T213541_20200728T222519_C001 3 6.6 P2P Measurement Quality Flag Check 7 P2P Quality Flags (20Hz) 7 CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 11 HS Since the P2P Quality Flags are copied directly from the L2 Quality Flags Number of products with errors: 23 P2P Quality Flags (20Hz PLRM) Since the P2P Quality Flags are copied directly from the L2 Quality Flags Number of products with errors: 23 P2P Quality Flags are copied directly from the L2 Quality Flags Number of products with errors: 23	Pasurement record. The bit value of this flag in Test Failed Power scaling error Power scaling error <td>Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records esponding L2 products. roducts affected. roducts affected.</td>	Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records esponding L2 products. roducts affected. roducts affected.
CryoSat P2P data includes a measurement confidence flag for each 20-Hz measurement of products with errors: 3 Product CS_OFFL_SIR_IOP_2_20200728T091122_20200728T100059_C001 CS_OFFL_SIR_IOP_2_20200728T181711_20200728T190650_C001 CS_OFFL_SIR_IOP_2_20200728T213541_20200728T222519_C001 CS_OFFL_SIR_IOP_2_20200728T213541_20200728T222519_C001 6.6 P2P Measurement Quality Flag Check P2P Quality Flags (20Hz) CryoSat P2P data includes Quality Flags for each 20 Hz, 20 Hz PLRM and 11 HS ince the P2P Quality Flags are copied directly from the L2 Quality Flags Number of products with errors: 23 P2P Quality Flags (20Hz PLRM) Since the P2P Quality Flags (20Hz PLRM) Since the P2P Quality Flags (20Hz PLRM) 23 P2P Quality Flags (20Hz PLRM) Since the P2P Quality Flags (20Hz PLRM) Since the P2P Quality Flags (1 Hz & 1Hz PLRM) 22	Pasurement record. The bit value of this flag in Test Failed Power scaling error Power scaling error <td>Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records esponding L2 products. roducts affected. roducts affected.</td>	Description There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records There is an error in the scaling of the L2 waveform for one or more records esponding L2 products. roducts affected. roducts affected.

6.8 P2P Ocean Retracking Quality Check

P2P Retracking Flags (20Hz)

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

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

22

23

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.

Number of products with errors:

7. IOP QCC Report Analysis

The Quality Control for CryoSat (QCC) facility performs a primary survey of data products immediately after production by the PDS and LTA processing facilities. A list of the tests which raised errors or warnings is provided below.

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_IOPM1B	119	119	2	117	0
SIR_IOPR1B	87	86	4	82	0
SIR_IOPN1B	86	87	0	87	0
SIR_IOPM_2	119	119	78	41	0
SIR_IOPR_2	87	86	34	52	0
SIR_IOPN_2	86	87	23	64	0
SIR_IOP_P2P	23	23	0	23	0

7.1 QCC Errors

7.2 QCC Warnings

Product Type	BCSHNCDF	MVIOEPFDNCDF	MVIOEPNCDF	ber of occurrences of e RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCD	RBSZOPOEPNCDF	RNELPOTONCDF
SIR IOPM1B	117	0	0	0	0	0	0
SIR IOPM 2	0	27	32	29	0	25	1
SIR IOPN1B	80	0	0	0	0	0	0
SIR IOPN 2	0	7	28	19	21	16	0
SIR_IOPR1B	85	0	0	0	0	0	0
SIR IOPR 2	0	26	35	30		16	1
	-						
Product Type	RPEPOPFDLRMNCDF	RPEPOPFDPLRMSARNCI	RPEPOPFDPLRMSINNCD	RPEPOPFDSARNCDF	RPEPOPFDSINNCDF	RPEPOPLRMNCDF	RPEPOPSARNCDF
SIR_IOPM1B	0	0	0	0	0	0	0
SIR IOPM 2	24	0	0	0	0	18	0
SIR IOPN1B	0	0	0	0	0	0	0
SIR IOPN 2	0	0	21	0	28	0	0
SIR IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	38	0	46	0	0	36
	-			+	+	ł	+
Product Type	RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF	RSWHOEPFDNCDF	RSWHOEPFDPLRM
SIR_IOPM1B	0	0	0	0	0	0	0
SIR_IOPM_2	0	3	24	0	3	26	0
SIR_IOPN1B	0	0	0	0	0	0	0
SIR_IOPN_2	25	14	36	45	25	25	27
SIR_IOPR1B	0	0	0	0	0	0	0
SIR_IOPR_2	0	3	54	38	5	31	43
Product Type	RSWHOEPNCDF	SOOHHIFHD	SCSTODHRNCDF	SCSTODNCDF	-		-
SIR_IOPM1B	0	0	0	0			
SIR_IOPM_2	2	0	0	0			
SIR_IOPN1B	0	0	37	0			
SIR_IOPN_2	14	1	0	0			
SIR_IOPR1B	0	0	87	4			
SIR_IOPR_2	1	0	0	0			
	·				1		I
Product Type	IOHHMOOR	MVIOEPFDNCDF	MVIOEPNCDF	RBSZOPOEPFDNCDF	RBSZOPOEPFDPLRMNCE		RNELPOTONCDF
SIR_IOP_2_	11	23	23	23	16	22	2
Broduct Type	RPEPOPFDPLRMSINNC		RPEPOPSINNCDF	RSSBCONCDF	RSSHAOFDNCDF	RSSHAOFDPLRMNCDF	RSSHAONCDF
Product Type	16	23	19	14		16	22
SIR_IOP_2_	10	25	15	14	23	10	22
	RSWHOEPFDNCDF	RSWHOEPFDPLRMNCDF	DSWILOEDNCDE	SPHLPQWNCDF			_
Product Type							

Fest Description Key:					
Abbreviation	Test name	Details			
BCSHNCDF	BurstCounterStep20HzNetCDF	The burst counter should be one higher with regard to the previous burst counter			
MVIOEPFDNCDF	MissingValueIntOceanExcludingPolarFD2NetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
MVIOEPNCDF	MissingValueIntOceanExcludingPolarNetCDF	The value should not be a 'missing value' for surface type 0 only for latitudes between -70 and 70 degrees			
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) fo 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			
RPEPOPFDPLRMSINN CDF	RangePeakinessExcludingPolarOPFD2PLRMSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSARNCDF	RangePeakinessExcludingPolarOPFD2SARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPFDSINNCDF	RangePeakinessExcludingPolarOPFD2SINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPLRMNCDF	RangePeakinessExcludingPolarOPLRMNetCDF	The Peakiness should be between 0 and 6400 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSARNCDF	RangePeakinessExcludingPolarOPSARNetCDF	The Peakiness should be between 0 and 15000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RPEPOPSINNCDF	RangePeakinessExcludingPolarOPSINNetCDF	The Peakiness should be between 0 and 90000 (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSSBCONCDF	RangeSeaStateBiasCorrectionOceanNetCDF	The sea state bias correction should be between -500mm and 0mm (or missing) for surface type = ocean			
RSSHAOFDNCDF	RangeSeaSurfaceHeightAnomalyOceanFD3NetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAOFDPLRMNCD	RangeSeaSurfaceHeightAnomalyOceanFD3PLRMNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSSHAONCDF	RangeSeaSurfaceHeightAnomalyOceanNetCDF	The sea surface height anomaly should be between -3000mm and 3000mm (or missing) for surface type = ocean			
RSWHOEPFDNCDF	RangeSignificantWaveHeightOceanExcludingPolarFD2NetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPFDPLRMNC	RangeSignificantWaveHeightOceanExcludingPolarFD2PLRMNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
RSWHOEPNCDF	RangeSignificantWaveHeightOceanExcludingPolarNetCDF	The significant wave height should be between 0mm and 15000mm (or missing) for surface type = ocean for latitudes between -70 and 70 degrees			
SOOHHIFHD	SameOrOneHigher1HzIndexFor20HzData	The 1 Hz index of a 20 Hz sample should be the same or 1 higher than its previous sample			
SCSTODHRNCDF	SequenceCounterStepTODHRNetCDF	The sequence counter should be modulo 4 higher with regard to the previous sequence counter			
SCSTODNCDF	SequenceCounterStepTODNetCDF	The sequence counter should be one higher (modulo 16384) with regard to the previous sequence counter			

7.3 Missing QCC Reports

Number of products with missing QCC reports:

0