



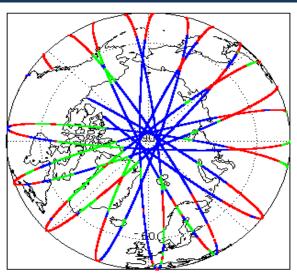
1. Overview

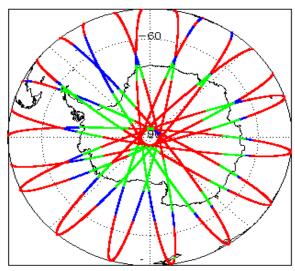
Report Production:	30-Apr-2018	
Processor Used:	CryoSat Ocean Processor	
Data Used:	Intermediate Ocean Products (IOP) L1B, L2 & P2P Science Data	

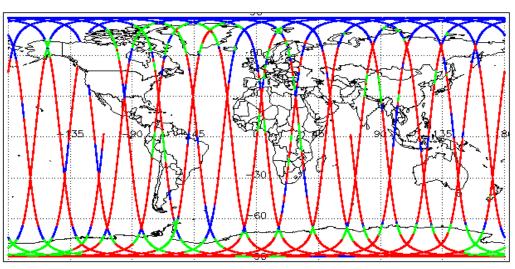
Check	L1 & L2	P2P
Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Product Software Check	Nominal	Nominal
Product Format Check	Nominal	Nominal
Product Header Analysis	Nominal	Nominal
Auxiliary Data File Usage Check	Nominal	Nominal
Auxiliary Correction Error Check	Nominal	Nominal
Measurement Confidence Data Check	See Section 4.6	Nominal
Range, SWH & Backscatter Measurement Check	See Section 5.6, 5.7	See Section 6.6, 6.7
Ocean Retracking Quality Check	See Section 5.8	See Section 6.8

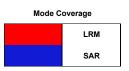
Mis	Mission / Instrument News		
1	8-Apr-2018	None	
1	9-Apr-2018	None	
2	20-Apr-2018	Nothing planned	

2. Global Coverage









3. Instrument Configuration

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

SIRAL instrument(s) in use: SIRAL - A

4. IOP Level 1B Data Quality Check

4.1 L1B Product Format Check

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

Number of products with errors:

0

4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check

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

Number of products with errors:

4.4 L1B Auxiliary Correction Error Check

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

Number of products with errors:

4.5 L1B Measurement Confidence Data Check

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

Attitude Correction Missing: This flag is currently set in error for IOPR products due to a configuration issue. This is being investigated and will be updated in the next SW update.

Number of products with errors:

4.6 L1B Waveform Group Data Check

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

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

Number of products with errors:

16

Product	Test Failed	Description
CS_OFFL_SIR_IOPM1B_20180419T203957_20180419T210037_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T002920_20180419T003208_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T021000_20180419T021116_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T025044_20180419T025111_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T060949_20180419T061109_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T070449_20180419T070633_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T074414_20180419T074824_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T084752_20180419T084926_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T092448_20180419T092912_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T200816_20180419T201427_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPN1B_20180419T224640_20180419T225136_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180419T010757_20180419T011833_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180419T094953_20180419T095751_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180419T111319_20180419T111547_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180419T144331_20180419T144510_C001	Loss of Echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_IOPR1B_20180419T191512_20180419T191745_C001	Loss of Echo	The tracking echo is missing for one or more records

5. IOP Level 2 Data Quality Check

5.1 L2 Product Format Check

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

Number of products with errors:

5.2 L2 Product Header Analysis

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

Number of products with errors:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors: 0

5.4 L2 Auxiliary Correction Error Check

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

Number of products with errors:

0

5.5 L2 Measurement Confidence Data Check

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

Number of products with errors:

5.6 L2 Range Measurement Check

CryoSat L2 data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags 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.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

69

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180418T235324_20180419T000318_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T000731_20180419T001853_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

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Log-OFF_SR_OWS_20160419702112_010019702100_0001 Open Replay Averaging Sites to Cook a Regular Plag has been set for one or more control of the Cook and the Cook	CS_OFFL_SIR_IOPM_2_20180419T012541_20180419T014113_C001	Ocean Range Averaging Status	
Corest, Salt, Divine, 2, protect strong to consist processing State. Plant Death Rating Among the State Plant Plant State State Plant Stat	CS_OFFL_SIR_IOPM_2_20180419T014645_20180419T015812_C001	Ocean Range Averaging Status	
Conf., St., Down J., 20100H19T02000, 20100H19T02010, 20100H19T	CS_OFFL_SIR_IOPM_2_20180419T020414_20180419T021000_C001	Ice Range Averaging Status	
Depthy Billy Comp. 2 (2010-04) (2010-04) (2010-05) (2010	CS_OFFL_SIR_IOPM_2_20180419T021125_20180419T021741_C001	Ocean Range Averaging Status	
Court Set Doring 2, 291004197003912, 20104197003912, 001	CS_OFFL_SIR_IOPM_2_20180419T024900_20180419T024948_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Self-OFF_SRIL_OMA_2_conselvations.arg.comes introduced_colors ColorF_SRIL_OMA_2_conselvations.arg.comes introduced_colors Colo	CS_OFFL_SIR_IOPM_2_20180419T030300_20180419T033713_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
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Ocean Range Averaging Status The Ocean Range Av	CS OFFL SIR IOPM 2 20180419T044215 20180419T051019 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFF_SIR_UPNL_2 20180419T000342_0018049T000323_0018 CS_OFF_SIR_UPNL_2 20180419T000342_0018049T000350_0018 CS_OFF_SIR_UPNL_2 20180419T000342_0018049T000350_0018 CS_OFF_SIR_UPNL_2 20180419T000342_0018049T000350_0018 CS_OFF_SIR_UPNL_2 20180419T000372_0018049T000350_0018 CS_OFF_SIR_UPNL_2 20180419T000372_0018049T000350_0018 CS_OFF_SIR_UPNL_2 20180419T000372_0018049T00404_0018 CS_OFF_SIR_UPNL_2 20180419T000323_0018049T00404_0018 CS_OFF_SIR_UPNL_2 20180419T000323_0018049T074040_0018 CS_OFF_SIR_UPNL_2 20180419T000323_0018049T074040_0018 CS_OFF_SIR_UPNL_2 20180419T000323_0018049T07400_0018 CS_OFF_SIR_UPNL_2 20180419T000323_0018049T0740010_0018 CS_OFF_SIR_UPNL_2 20180419T000323_0018049T0740010018 CS_OFF_SIR_UPNL_2 20180419T000323_0018049T0740010018 CS_OFF_SIR_UPNL_2 20180419T000303_0018049T0740010018 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T0740010018 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T0740010018 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T0740010018 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T1000180_0010018048 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T00010018040018048 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T000303_0018048 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T000303_0018048 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T1000303_0018048 CS_OFF_SIR_UPNL_2 20180419T1000303_0018049T000303_001804	CS OFFL SIR IOPM 2 20180419T051029 20180419T051541 C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_2018041971092592_0180497100000_001 CS_OFFL_SIR_IOPM_2_2018041971093731_018049700000_001 CS_OFFL_SIR_IOPM_2_2018041971093732_018049700000000000000000000000000000000000			The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_(IPM_2_2018041917062328_2018041917063526_C001 Osen Range Averaging Satus The Ocean Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag has been set for one or more seconds. Fine Distance Range Averaging Satus Flag ha			
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CS_OFFL_SIR_IOPM_2_20180419T08053_20180419T081412_C001 CS_OFFL_SIR_IOPM_2_20180419T080320_20180419T084412_C001 CS_OFFL_SIR_IOPM_2_20180419T090372_20180419T092013_C001 CS_OFFL_SIR_IOPM_2_20180419T090737_20180419T092013_C001 CS_OFFL_SIR_IOPM_2_20180419T090737_20180419T092013_C001 CS_OFFL_SIR_IOPM_2_20180419T090737_20180419T092013_C001 CS_OFFL_SIR_IOPM_2_20180419T090737_20180419T109122_C001 CS_OFFL_SIR_IOPM_2_20180419T102049_20180419T109112_C001 CS_OFFL_SIR_IOPM_2_20180419T102049_20180419T109112_C001 CS_OFFL_SIR_IOPM_2_20180419T102049_20180419T1109018_C001 CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T1150018_C001 CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T1150018_C001 CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T1150018_C001 CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T115042_C001 CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T115042_C001 CS_OFFL_SIR_IOPM_2_20180419T100007_20180419T115042_C001 CS_OFFL_SIR_IOPM_2_20180419T100007_20180419T115042_C001 CS_OFFL_SIR_IOPM_2_20180419T100007_20180419T115042_C001 CS_OFFL_SIR_IOPM_2_20180419T100007_20180419T115042_C001 CS_OFFL_SIR_IOPM_2_20180419T100007_20180419T130007_20180419T130007_20180419T1000	CS_OFFL_SIR_IOPM_2_20180419T074049_20180419T074414_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201804197108362_0218041971083415_C001 CS_OFFL_SIR_IOPM_2_201804197084949_201804197085402_C0001 CS_OFFL_SIR_IOPM_2_201804197084949_201804197085402_C0001 CS_OFFL_SIR_IOPM_2_201804197084949_201804197085402_C0001 CS_OFFL_SIR_IOPM_2_201804197084949_20180419710312_C001 CS_OFFL_SIR_IOPM_2_201804197102649_20180419710312_C001 CS_OFFL_SIR_IOPM_2_201804197102649_2018041971102604_C001 CS_OFFL_SIR_IOPM_2_201804197102649_201804197111540_C001 CS_OFFL_SIR_IOPM_2_201804197112702_00180419711540_C001 CS_OFFL_SIR_IOPM_2_20180419712703_00180419711579_C001 CS_OFFL_SIR_IOPM_2_201804197120002_201804197117979_C001 CS_OFFL_SIR_IOPM_2_201804197130337_201804197123342_C001 CS_OFFL_SIR_IOPM_2_201804197130337_201804197133356_C001 CS_OFFL_SIR_IOPM_2_201804197130340_20180419713326_C001 CS_OFFL_SIR_IOPM_2_201804197130357_00180419713326_C001 CS_OFFL_SIR_IOPM_2_20180419713040_20180419713326_C001 CS_OFFL_SIR_IOPM_2_20180419715040_201804197130400000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180419T080553_20180419T081648_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201804197080499_2018041971908402013_C001 CS_OFFL_SIR_IOPM_2_201804197080737_201804197092013_C001 CS_OFFL_SIR_IOPM_2_201804197080737_2018041971092013_C001 CS_OFFL_SIR_IOPM_2_201804197080737_2018041971092013_C001 CS_OFFL_SIR_IOPM_2_2018041971080737_2018041971092013_C001 CS_OFFL_SIR_IOPM_2_2018041971080737_2018041971092013_C001 CS_OFFL_SIR_IOPM_2_201804197102649_201804197105018_C001 CS_OFFL_SIR_IOPM_2_201804197102649_2018041971152001 CS_OFFL_SIR_IOPM_2_201804197112703_201804197115240_C001 CS_OFFL_SIR_IOPM_2_201804197112550_201804197115240_C001 CS_OFFL_SIR_IOPM_2_201804197112503_201804197115240_C001 CS_OFFL_SIR_IOPM_2_201804197112503_201804197115240_C001 CS_OFFL_SIR_IOPM_2_201804197112503_201804197112795_C001 CS_OFFL_SIR_IOPM_2_201804197122331_20180419712795_C001 CS_OFFL_SIR_IOPM_2_201804197122331_201804197132332_C001 CS_OFFL_SIR_IOPM_2_201804197133337_201804197133335_C001 CS_OFFL_SIR_IOPM_2_201804197133409_201804197133356_C001 CS_OFFL_SIR_IOPM_2_201804197133409_201804197133566_C001 CS_OFFL_SIR_IOPM_2_201804197134500_201804197135716_C001 CS_OFFL_SIR_IOPM_2_201804197134500_201804197135716_C001 CS_OFFL_SIR_IOPM_2_201804197135518_20180419713525_C001 CS_OFFL_SIR_IOPM_2_201804197135518_20180419713525_C001 CS_OFFL_SIR_IOPM_2_201804197135518_20180419715225_C001 CS_OFFL_SIR_IOPM_2_20180419715518_2018041971525_C001 CS_OFFL_SIR_IOPM_2_20180419715518_2018041971525_C001 CS_OFFL_SIR_IOPM_2_201804197152518_201804197152500_C001 CS_OFFL_SIR_IOPM_2_201804197152518_201804197152500_C001 CS_OFFL_SIR_IOPM_2_201804197151504_201804197151525_C001 CS_OFFL_SIR_IOPM_2_201804197151504_201804197151525_C001 CS_OFFL_SIR_IOPM_2_201804197151504_201804197151525_C001 CS_OFFL_SIR_IOPM_2_201804197151504_201804197151525_C001 CS_OFFL_SIR_IOPM_2_201804197151504_2018041971525_C001 CS_OFFL_SIR_IOPM_2_201804197153515_20180419715709_C001 CS_OFFL_SIR_IOPM_2_201804197153515_20180419715709_C001 CS_OFFL_SIR_IOPM_2_201804197153151_204804197165102_C001 CS_OFFL_SIR_IOPM_2_201804197163162_001804197165102_C001 CS	CS_OFFL_SIR_IOPM_2_20180419T081851_20180419T083412_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201804197190973_2018041971092013_C001 CS_OFFL_SIR_IOPM_2_201804197190973_2018041971092013_C001 CS_OFFL_SIR_IOPM_2_201804197109073_20180419710918_C001 CS_OFFL_SIR_IOPM_2_201804197102409_201804197110918_C001 CS_OFFL_SIR_IOPM_2_201804197112703_2018041971150918_C001 CS_OFFL_SIR_IOPM_2_201804197112703_20180419711509018_C001 CS_OFFL_SIR_IOPM_2_201804197112703_20180419711509018_C001 CS_OFFL_SIR_IOPM_2_201804197112703_201804197112709_C001 CS_OFFL_SIR_IOPM_2_20180419712703_20180419711273204_C001 CS_OFFL_SIR_IOPM_2_2018041971273231_2018041971127324_C001 CS_OFFL_SIR_IOPM_2_201804197133356_C001 CS_OFFL_SIR_IOPM_2_201804197133356_C001 CS_OFFL_SIR_IOPM_2_201804197133505_C010 CS_OFFL_SIR_IOPM_2_201804197133505_C010 CS_OFFL_SIR_IOPM_2_201804197135716_C001 CS_OFFL_SIR_IOPM_2_201804197155006_2018041971357009_C001 CS_OFFL_SIR_IOPM_2_201804197155006_2018041971500000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180419T083620_20180419T084115_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T102802_20180419T1105102_C001 CS_OFFL_SIR_IOPM_2_20180419T102802_20180419T1105102_C001 CS_OFFL_SIR_IOPM_2_20180419T1102802_20180419T115200_C001 CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T115200_C001 CS_OFFL_SIR_IOPM_2_20180419T115500_20180419T115200_C001 CS_OFFL_SIR_IOPM_2_20180419T115500_20180419T115500_C001 CS_OFFL_SIR_IOPM_2_20180419T1123312_20180419T115000_C001 CS_OFFL_SIR_IOPM_2_20180419T1123312_00180419T112750_C001 CS_OFFL_SIR_IOPM_2_20180419T1323312_00180419T1123324_C001 CS_OFFL_SIR_IOPM_2_20180419T1323312_00180419T133325_C001 CS_OFFL_SIR_IOPM_2_20180419T1333037_20180419T133325_C001 CS_OFFL_SIR_IOPM_2_20180419T1333409_20180419T133255_C001 CS_OFFL_SIR_IOPM_2_20180419T1334500_20180419T1335716_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155012_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155012_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155012_20180419T155020_C001 CS_OFFL_SIR_IOPM_2_20180419T155012_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155012_20180419T155020_C001 CS_OFFL_SIR_IOPM_2_20180419T155012_20180419T15502_C001 CS_OFFL_SIR_IOPM_2_20180419T155012_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T165102_C0180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T165102_C0180419T16510	CS_OFFL_SIR_IOPM_2_20180419T084949_20180419T085402_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T10284g_20180419T1152002 Ocean Range Averaging Status Fecords. CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T115240_C001 Ocean Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T11542_C001 Ocean Range Averaging Status Ice Range Averaging Status Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. Ice Ocean Range Averaging Status Ice Range Ave	CS_OFFL_SIR_IOPM_2_20180419T090737_20180419T092013_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T115203_20180419T115240_C001 CS_OFFL_SIR_IOPM_2_20180419T115203_20180419T115240_C001 CS_OFFL_SIR_IOPM_2_20180419T115500_20180419T115240_C001 CS_OFFL_SIR_IOPM_2_20180419T120302_20180419T1120302_C001 CS_OFFL_SIR_IOPM_2_20180419T1203037_20180419T120302_C001 CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T123324_C001 CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T130337_C001 CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T130335_C001 CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T133356_C001 CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133556_C001 CS_OFFL_SIR_IOPM_2_20180419T13550_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T142025_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T15000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T150000 CS_OFFL_SIR_IOPM_2_20180419T160000 CS_OFFL_SIR_IOPM_2_20180419T160000 CS_OFFL_SIR_IOPM_2_20180419T160000 CS_OFFL_SIR_IOPM_2_20180419T160000 CS_OFFL_SIR_IOPM_2_20180419T160000 CS_OFFL_SIR_IOPM_2_20180419T160000 CS_OFFL_SIR_IOPM_2_20180419T1600000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180419T095751_20180419T101312_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T115550_20180419T115542_0001 CS_OFFL_SIR_IOPM_2_20180419T122331_20180419T12759_C001 CS_OFFL_SIR_IOPM_2_20180419T122331_20180419T123324_C001 CS_OFFL_SIR_IOPM_2_20180419T122331_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133355_C001 CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133355_C001 CS_OFFL_SIR_IOPM_2_20180419T133450_20180419T133556_C001 CS_OFFL_SIR_IOPM_2_20180419T13550_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T13550_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135516_2001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T15150709_C001 CS_OFFL_SIR_IOPM_2_20180419T15150709_C001 CS_OFFL_SIR_IOPM_2_20180419T15150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150514_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150514_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150514_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T150514_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T160104_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T160104_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T160104_20180419T165200_C001 CS_OFFL_SIR_IOPM_2_20180419T160104_20180419T165200_C001 CS_OFFL_SIR_IOPM_2_20180419T160104_20180419T160102_C001 CS_OFFL_SIR_IOPM_2_20180419T160104_20180419T160102_C001 CS_OFFL_SIR_IOPM_2_20180419T160106_20180419T160102_C001 CS_OFFL_SIR_IOPM_2_20180419T160106_20180419T180106_20180419T180106_20180419T180106_20180419T1600000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180419T102649_20180419T105018_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T120802_20180419T12759_C001 CS_OFFL_SIR_IOPM_2_20180419T123324_C001 CS_OFFL_SIR_IOPM_2_20180419T123331_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T13337_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133856_C001 CS_OFFL_SIR_IOPM_2_20180419T134550_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T14025_C001 CS_OFFL_SIR_IOPM_2_20180419T158511_20180419T14025_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T1595_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 CS_OFFL_SIR_IOPM_2_20180419T1504_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T1504_20180419T150002_C001 CS_OFFL_SIR_IOPM_2_20180419T1504_20180419T150002_C001 CS_OFFL_SIR_IOPM_2_20180419T1504_20180419T160002_C001 CS_OFFL_SIR_IOPM_2_20180419T1604_20180419T160002_C001 CS_OFFL_SIR_IOPM_2_20180419T1604_20180419T160002_C001 CS_OFFL_SIR_IOPM_2_20180419T1604_20180419T1600000000000000000000000000000000000	CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T115240_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T122331_20180419T123324_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status F	CS_OFFL_SIR_IOPM_2_20180419T115550_20180419T115942_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T133037_20180419T133235_C001 CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133856_C001 CS_OFFL_SIR_IOPM_2_20180419T134550_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T142025_C001 CS_OFFL_SIR_IOPM_2_20180419T155811_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155517_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155517_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155517_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155517_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T165014_20180419T165162_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165162_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T16328_20180419T163259_C001 Coean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The	CS_OFFL_SIR_IOPM_2_20180419T120602_20180419T121759_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133856_C001 CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133856_C001 CS_OFFL_SIR_IOPM_2_20180419T134550_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T142025_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150517_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T15092_C001 CS_OFFL_SIR_IOPM_2_20180419T150514_20180419T15092_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165002_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165002_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165002_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165002_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165002_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165002_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165002_C001 CS_OFFL_SIR_IOPM_2_20180419T161502_C001 CS_OFFL_SIR_IOPM_2_20180419T161505_C001 CS_OFFL_SIR_IOPM_2_20180419T165306_20180419T165002_C001 CCC_OCAR Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocea	CS_OFFL_SIR_IOPM_2_20180419T122331_20180419T123324_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T134550_20180419T135716_C001 CS_OFFL_SIR_IOPM_2_20180419T135511_20180419T142025_C001 CS_OFFL_SIR_IOPM_2_20180419T155811_20180419T142025_C001 CS_OFFL_SIR_IOPM_2_20180419T155811_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T15270_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T16326_20180419T165823_C001 Loe Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Ran	CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T133235_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T134550_20180419T142025_C001 CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T142025_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T165014_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T161516_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T17707_C001 CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T17707_C001 CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T17707_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C00	CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133856_C001	Ice Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T165014_20180419T165902_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T16516_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T1065326_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T17770T_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001	CS_OFFL_SIR_IOPM_2_20180419T134550_20180419T135716_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001 CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001 Loe Range Averaging Status CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 CS_OFFL_SIR_IOPM_2_20180419T165014_20180419T16516_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T16326_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T173707_C001 CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T173707_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T180727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T180727_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T180727_C001 CS_OFFL_SIR_IOPM_2_201804	CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T142025_C001	Ocean Range Averaging Status	
CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180419T150518_20180419T150709_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T161516_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T16516_C001 CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T161516_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T165823_C001 CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T173707_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001	CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T161516_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180419T155014_20180419T155902_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The loe Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T161516_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T165823_C001	CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T173707_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T165823_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more records.			The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. The Ocean Range Averaging Status Flag has been set for one or more			The Ocean Range Averaging Status Flag has been set for one or more
The Ocean Range Averaging Status Flag has been set for one or more			The Ice Range Averaging Status Flag has been set for one or more
AND AND AND A COUNTY OF THE CO	CS_OFFL_SIR_IOPM_2_20180419110333_201804191103127_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20180419T190629 20180419T191426 C001 Ocean Range Averaging Status Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more			
The Ice Range Averaging Status Flag has been set for one or more			
The Ocean Range Averaging Status Flag has been set for one or more			
CS_OFFL_SIR_IOPM_Z_201804191193445_201804191195029_C001 Ocean Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more			records.
CS_OFFL_SIR_IOPM_2_20180419T195244_20180419T200733_C001 Ocean Range Averaging Status records.	GS_OFFIL_SIK_IOPMI_Z_Z01804191199244_201804191200733_C001	Ocean Range Averaging Status	

CS_OFFL_SIR_IOPM_2_20180419T201722_20180419T202140_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T202327_20180419T203818_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T203957_20180419T210037_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T211750_20180419T212748_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T213434_20180419T214925_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T215218_20180419T220043_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T220304_20180419T222544_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T230142_20180419T232841_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T233405_20180419T233858_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T234158_20180420T000655_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180419T074858_20180419T075019_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180419T210905_20180419T210948_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180419T101312_20180419T101358_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180419T102548_20180419T102649_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180419T142541_20180419T143346_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180419T192550_20180419T192808_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

5.7 L2 SWH and Backscatter Measurement Check

CryoSat L2 data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when

Currently, there are three common status flags 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.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20180418T235324_20180419T000318_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T000731_20180419T001853_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T002502_20180419T002920_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T003251_20180419T010005_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T012541_20180419T014113_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T014645_20180419T015812_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T021125_20180419T021741_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T024900_20180419T024948_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T030300_20180419T033713_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T034318_20180419T034831_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T035035_20180419T040946_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T044215_20180419T051019_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T051029_20180419T051541_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T052325_20180419T052738_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T052954_20180419T060525_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T060525_20180419T060600_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T062226_20180419T063626_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T063731_20180419T065508_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T065654_20180419T070217_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T070236_20180419T070448_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T071326_20180419T072550_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T072718_20180419T074029_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T074049_20180419T074414_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T080553_20180419T081648_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T081851_20180419T083412_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T083620_20180419T084115_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T084120_20180419T084128_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20180419T084949_20180419T085402_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T090737_20180419T092013_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T095751_20180419T101312_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T101556_20180419T102044_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T102649_20180419T105018_C001	Backscatter Averaging Status	more records.
CS_OFFL_SIR_IOPM_2_20180419T112703_20180419T115240_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T115550_20180419T115942_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T120004_20180419T120329_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T120602_20180419T121759_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T122331_20180419T123324_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T130337_20180419T133235_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T133409_20180419T133856_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T134550_20180419T135716_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T135811_20180419T142025_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T150908_20180419T151153_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T151400_20180419T151925_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T152517_20180419T154729_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or
CS OFFL SIR IOPM 2 20180419T155014 20180419T155902 C001	SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T161204_20180419T161516_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T163128_20180419T165102_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T165326_20180419T165823_C001	Backscatter Averaging Status Ice Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T170425_20180419T173707_C001	SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T180106_20180419T182559_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T183535_20180419T183727_C001	Ice Backscatter Averaging Status SWH Averaging Status, Ocean	records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T184427_20180419T190025_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPM_2_20180419T190629_20180419T191426_C001	Backscatter Averaging Status	more records. The Ice Backscatter Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20180419T192929_20180419T193227_C001	Ice Backscatter Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20180419T193445_20180419T195029_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T195244_20180419T200733_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T201722_20180419T202140_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T202327_20180419T203818_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T203957_20180419T210037_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T211750_20180419T212748_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T213434_20180419T214925_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T215218_20180419T220043_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T220304_20180419T222544_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T230142_20180419T232841_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T233405_20180419T233858_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20180419T234158_20180420T000655_C001	SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPN_2_20180419T074858_20180419T075019_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPN_2_20180419T210905_20180419T210948_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPR_2_20180419T101312_20180419T101358_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20180419T102548_20180419T102649_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20180419T142541_20180419T143346_C001	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
	Backscatter Averaging Status SWH Averaging Status, Ocean	more records. The SWH and Ocean Averaging Status Flags have been set for one or
CS_OFFL_SIR_IOPR_2_20180419T192550_20180419T192808_C001	Backscatter Averaging Status	more records.

5.8 L2 Ocean Retracking Quality Check

CryoSat L2 data includes an ocean retracking quality flag for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

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

6.1 P2P Product Format Check

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

Number of products with errors:

6.2 P2P Product Header Analysis

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

Number of products with errors:

6.3 P2P Auxiliary Data File Usage Check

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

Number of products with errors:

6.4 P2P Auxiliary Correction Error Check

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

Number of products with errors:

0

6.5 P2P Measurement Confidence Data Check

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

Number of products with errors:

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6.6 P2P Range Measurement Check

CryoSat P2P data includes an Ocean and Ice Range Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are two common status flags raised in the P2P 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.

Ocean Range Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Range Averaging Status Flag: This flag is currently set for products over land, but this is to be expected.

Number of products with errors:

30

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180418T233553_20180419T002533_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T002533_20180419T011507_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T011507_20180419T020447_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T020447_20180419T025421_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T025421_20180419T034400_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T034400_20180419T043334_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T043334_20180419T052314_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T052314_20180419T061248_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T061248_20180419T070227_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T070227_20180419T075201_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T075201_20180419T084140_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T084140_20180419T093115_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for on or more records.
CS_OFFL_SIR_IOP_220180419T093115_20180419T102054_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T102054_20180419T111028_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T111028_20180419T120008_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for on or more records.
CS_OFFL_SIR_IOP_220180419T120008_20180419T124942_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for on or more records.
CS_OFFL_SIR_IOP_220180419T124942_20180419T133921_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220180419T133921_20180419T142856_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T142856_20180419T151835_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220180419T151835_20180419T160809_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T160809_20180419T165749_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for on or more records.
CS_OFFL_SIR_IOP_220180419T165749_20180419T174723_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T174723_20180419T183702_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T183702_20180419T192636_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220180419T192636_20180419T201615_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220180419T201615_20180419T210550_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220180419T210550_20180419T215529_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220180419T215529_20180419T224503_C001	Ocean Range Averaging Status, Ice Range Averaging Status	The Ocean and Ice Range Averaging Status Flags have been set for or or more records.
CS_OFFL_SIR_IOP_220180419T224503_20180419T233443_C002	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.

6.7 P2P SWH and Backscatter Measurement Check

CryoSat P2P data includes a SWH Averaging Status flag and an Ocean and Ice Backscatter Averaging Status flag for each measurement record. The bit value of this flag indicates any problems when

Currently, there are three common status flags raised in the P2P 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.

SWH Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ocean Backscatter Averaging Status Flag: This flag is currently set for products over land and sea ice, but this is to be expected.

Ice Backscatter Averaging Status Flag: This flag is currently set for products over land, but this is to be expected. 30

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220180418T233553_20180419T002533_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T002533_20180419T011507_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T011507_20180419T020447_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T020447_20180419T025421_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T025421_20180419T034400_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T034400_20180419T043334_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T043334_20180419T052314_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T052314_20180419T061248_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T061248_20180419T070227_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T070227_20180419T075201_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T075201_20180419T084140_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T084140_20180419T093115_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T093115_20180419T102054_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T102054_20180419T111028_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T111028_20180419T120008_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T120008_20180419T124942_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T124942_20180419T133921_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T133921_20180419T142856_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T142856_20180419T151835_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T151835_20180419T160809_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T160809_20180419T165749_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T165749_20180419T174723_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T174723_20180419T183702_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T183702_20180419T192636_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T192636_20180419T201615_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T201615_20180419T210550_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T210550_20180419T215529_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T215529_20180419T224503_C001	SWH Averaging Status, Ocean Backscatter Averaging Status, Ice Backscatter Averaging Status	The SWH, Ocean and Ice Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOP_220180419T224503_20180419T233443_C002	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ocean Retracking Quality Flag has been set for one or more records.

CS OFFL SIR IOP 2 20180419T233443 20180420T002417 C001

6.8 P2P Ocean Retracking Quality Check

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

Number of products with errors:

Product CS OFFL SIR IOP 2 20180418T233553 20180419T002533 C002 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T002533_20180419T011507_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T011507_20180419T020447_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T020447_20180419T025421_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T025421 20180419T034400 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T034400_20180419T043334_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T043334_20180419T052314_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T052314 20180419T061248 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records CS_OFFL_SIR_IOP_2__20180419T061248_20180419T070227_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T070227_20180419T075201_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T075201 20180419T084140 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T084140 20180419T093115 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records CS OFFL SIR IOP 2 20180419T102054 20180419T111028 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T111028 20180419T120008 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records CS OFFL SIR IOP 2 20180419T120008 20180419T124942 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T124942_20180419T133921_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T142856_20180419T151835_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T151835_20180419T160809_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records CS OFFL SIR IOP 2 20180419T160809 20180419T165749 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T165749_20180419T174723_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T174723_20180419T183702_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T183702_20180419T192636_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T192636_20180419T201615_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS_OFFL_SIR_IOP_2__20180419T201615_20180419T210550_C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T210550 20180419T215529 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records. CS OFFL SIR IOP 2 20180419T215529 20180419T224503 C001 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records CS_OFFL_SIR_IOP_2__20180419T224503_20180419T233443_C002 Ocean Retracking Quality Flag The Ocean Retracking Quality Flag has been set for one or more records.

Ocean Retracking Quality Flag