

IDEAS+ Daily Report for IOP data:

<u>14/12/2018</u>



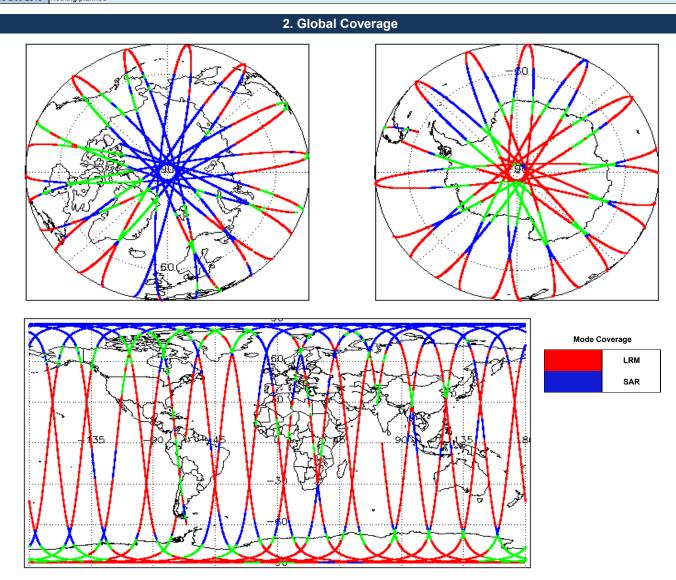
1. Overview				
Demant Draduatians	17-Dec-2018	Check	L1 & L2	P2P
Report Production:	17-Dec-2018	Server check: science-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	Cruce Cat Occas Processor	Server check: calval-pds.cryosat.esa.int	Nominal	Nominal
Processor Used:	CryoSat Ocean Processor	Product Software Check	Nominal	Nominal
Data Used:	Intermediate Ocean Products (IOP)	Product Format Check	Nominal	Nominal
Data Used:	L1B, L2 & P2P Science Data	Product Header Analysis	See Section 5.2	Nominal
		Auxiliary Data File Usage Check	Nominal	Nominal
		Auxiliary Correction Error Check	Nominal	Nominal
		Measurement Confidence Data Check	See Section 4.5, 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

Mission / Instrument News

 13-Dec-2018
 SIRAL unavailability on 13-Dec-2018 from 08:33:44 to 10:19:43 due to a planned orbit manoeuvre and from 13:54:52 to 14:14:48 due to planned on-board maintanance.

 14-Dec-2018
 None

15-Dec-2018 Nothing planned



3. Instrument Configuration

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

SIRAL - A

0

SIRAL instrument(s) in use:

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:

4.2 L1B Product Header Analysis

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

4.3 L1B Auxilary Data File Usage Check				
Each product is checked for missing Data Set Descriptors with respect to a pre	e-determined baseline and also t	o check the validity of Auxiliary Data Files is correct.		
Number of products with errors: 0				
4.4 L1B Auxiliary Correction Error Check				
CryoSat L1B data includes a correction error flag for each measurement record	d. The bit value of this flag indica	ates any problems when set.		
Number of products with errors: 0				
4.5 L1B Measurement Confidence Data Check				
CryoSat L1B data includes a measurement confidence flag for each measurem	nent record. The bit value of this	flag indicates any problems when set.		
Attitude Correction Missing: This flag is currently set in error for IOPR produ	icts due to a configuration issue.	This is being investigated and will be updated in the next SW update.		
Number of products with errors: 0				
4 6 L 4 P. Wayafarm Crayn Data Chaok				
· · · · · · · · · · · · · · · · · · ·	d. The bit value of this flag indica	tes any problems when set.		
CryoSat L1B data includes a waveform data flag for each measurement record	-	tes any problems when set.		
CryoSat L1B data includes a waveform data flag for each measurement record .oss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 22	-	tes any problems when set. Description		
CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 22 Product	to be expected.			
CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 22 roduct cs_OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001	to be expected.	Description		
CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 22 Product CS_OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T083233_C001	to be expected. Test Failed Loss of Echo	Description The tracking echo is missing for one or more records		
CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 22 Product CS_OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T083233_C001 CS_OFFL_SIR_IOPM1B_20181214T203801_20181214T204828_C001	to be expected. Test Failed Loss of Echo Loss of Echo	Description The tracking echo is missing for one or more records The tracking echo is missing for one or more records		
CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 22 Product CS_OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T083233_C001 CS_OFFL_SIR_IOPM1B_20181214T203801_20181214T204828_C001 CS_OFFL_SIR_IOPN1B_20181214T035325_20181214T035351_C001	to be expected. Test Failed Loss of Echo Loss of Echo Loss of Echo	Description 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		
CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for products over land, but this is lumber of products with errors: 22 Product CS_OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T083233_C001 CS_OFFL_SIR_IOPM1B_20181214T035301_20181214T024828_C001 CS_OFFL_SIR_IOPM1B_20181214T035325_20181214T035351_C001 CS_OFFL_SIR_IOPN1B_20181214T071032_20181214T071509_C001	to be expected. Test Failed Loss of Echo	Description 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		
CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record coss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 22 Product 22 SOFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T083233_C001 CS_OFFL_SIR_IOPM1B_20181214T035031_20181214T0204828_C001 CS_OFFL_SIR_IOPN1B_20181214T035325_20181214T035351_C001 CS_OFFL_SIR_IOPN1B_20181214T071032_20181214T071509_C001 CS_OFFL_SIR_IOPN1B_20181214T084934_20181214T085044_C001	to be expected. Test Failed Loss of Echo	Description 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		
CryoSat L1B data includes a waveform data flag for each measurement record CryoSat L1B data includes a waveform data flag for each measurement record Cross of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 22 Product 22 So OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 23 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T082333_C001 25 CS_OFFL_SIR_IOPM1B_20181214T035325_20181214T035351_C001 25 CS_OFFL_SIR_IOPN1B_20181214T071032_20181214T071509_C001 25 CS_OFFL_SIR_IOPN1B_20181214T084934_20181214T085044_C001 25 CS_OFFL_SIR_IOPN1B_20181214T085156_20181214T085334_C001 26	to be expected. Test Failed Loss of Echo	Description 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		
CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 22 Product 22 Product 23 CS_OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 23 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T082333_C001 25 CS_OFFL_SIR_IOPM1B_20181214T035325_20181214T035351_C001 25 CS_OFFL_SIR_IOPN1B_20181214T071032_20181214T071509_C001 25 CS_OFFL_SIR_IOPN1B_20181214T084934_20181214T085044_C001 25 CS_OFFL_SIR_IOPN1B_20181214T085156_20181214T085334_C001 25 CS_OFFL_SIR_IOPN1B_20181214T02852_20181214T1034422_C001 25	to be expected. Test Failed Loss of Echo Loss of Echo	Description 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		
4.6 L1B Waveform Group Data Check CryoSat L1B data includes a waveform data flag for each measurement record Loss of Echo Flag: This flag is currently set for products over land, but this is Number of products with errors: 22 Product 22 CS_OFFL_SIR_IOPM1B_20181214T080549_20181214T082109_C001 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T083233_C001 CS_OFFL_SIR_IOPM1B_20181214T082310_20181214T083233_C001 CS_OFFL_SIR_IOPM1B_20181214T035325_20181214T035351_C001 CS_OFFL_SIR_IOPN1B_20181214T071032_20181214T071509_C001 CS_OFFL_SIR_IOPN1B_20181214T071032_20181214T071509_C001 CS_OFFL_SIR_IOPN1B_20181214T084934_20181214T085334_C001 CS_OFFL_SIR_IOPN1B_20181214T085156_20181214T085334_C001 CS_OFFL_SIR_IOPN1B_20181214T102852_20181214T135522_C001 CS_OFFL_SIR_IOPN1B_20181214T135059_20181214T135522_C001 CS_OFFL_SIR_IOPN1B_20181214T01334_20181214T202056_C001 CS_OFFL_SIR_IOPN1B_20181214T201834_20181214T202056_C001	to be expected.	Description 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		

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: 0

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: 1

Test Failed

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

Percentage of processing errors detected greater than minimum acceptable threshold.

Product
CS_OFFL_SIR_IOPR_2_20181214T215937_20181214T220650_C001

CS_OFFL_SIR_IOPR1B_20181214T035709_20181214T040032_C001

CS_OFFL_SIR_IOPR1B_20181214T044349_20181214T044658_C001

CS_OFFL_SIR_IOPR1B_20181214T074850_20181214T075415_C001

CS_OFFL_SIR_IOPR1B_20181214T111025_20181214T111141_C001

CS_OFFL_SIR_IOPR1B_20181214T120413_20181214T120901_C001

CS_OFFL_SIR_IOPR1B_20181214T150856_20181214T150933_C001

CS_OFFL_SIR_IOPR1B_20181214T152156_20181214T152955_C001

CS_OFFL_SIR_IOPR1B_20181214T165110_20181214T165416_C001

CS_OFFL_SIR_IOPR1B_20181214T170231_20181214T171222_C001

CS_OFFL_SIR_IOPR1B_20181214T174606_20181214T174743_C001

CS_OFFL_SIR_IOPR1B_20181214T201533_20181214T201804_C001

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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

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. 82

Number of products with errors:

Product			

Interact Interact Interact Interact Interact C.G.M.L.BRI, LONG, 2.00191101100, 201211010110, 201211001110, 201211001110, 201211010110, 201211010110, 201211010110, 201211010110, 201211010110, 201211010110, 201210101100, 2010 Cons. Rage Averaging Status The London Rage Averaging Status The Cons.	Number of products with errors.		
BC, PT, BE, DOW, 201851470149, 201851470149, 2019 Case Raup Averaging Status Inc. Inc. Bonder Averaging Status Files between store on encounter of the Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status Inc. Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status CO, CT, URL (OVE, 20185147100484, 20181147100484, 20181 Case Raup Averaging Status Inc. Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status CO, CT, URL (OVE, 20185147100484, 20181147100484, 20181 Case Raup Averaging Status Inc. Cose Raup Averaging Status Files between store on encounter of Cose Raup Averaging Status CO, CT, URL (OVE, 20181247104444, 20181147100484, 20181 Case Raup Averaging Status Inc. Cose Raup Averaging Status CO, CT, URL (OVE, 20181247104444, 2018114710484, 20181 Case Raup Averaging Status Inc. Cose Raup Averaging Status CO, CT, URL (OVE, 20181247104844, 2018114710484, 20181 Case Raup Averaging Status Inc. Cose Raup Averaging Status CO, CT, URL (OVE, 20181247104844, 2018114710484, 20181 Case Raup Averaging Status Inc. Cose Raup Averaging Status CO, CT, URL (OVE, 20181247104844, 20181247104844	Product CS_OFFL_SIR_IOPM_2_20181214T003934_20181214T011336_C001	Test Failed Ocean Range Averaging Status	
Dispression Score Range Averaging Status Intro Come Range Averaging Status Intro Come Range Averaging Status D, OFL, DS, OFL 2, 2019/21110282, 2019211102245, 2001 Over Range Averaging Status The Come Range Averaging Status The Come Range Averaging Status D, OFL, DS, OFL 2, 2019/211102245, 2019211102245, 2001 Over Range Averaging Status The Come Range Averaging Status The Come Range Averaging Status D, OFL, DS, OFL 2, 2019/211102245, 2019211102245, 2001 Over Range Averaging Status The Come Range Averaging Status	CS_OFFL_SIR_IOPM_2_20181214T011610_20181214T012112_C001	Ice Range Averaging Status	
Display Display <t< td=""><td>CS_OFFL_SIR_IOPM_2_20181214T012917_20181214T013919_C001</td><td>Ocean Range Averaging Status</td><td>The Ocean Range Averaging Status Flag has been set for one or more</td></t<>	CS_OFFL_SIR_IOPM_2_20181214T012917_20181214T013919_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
C1. 0F4-LSR (0F4) 2 2181214102140_20181214102140_C011 Ocen Rays Averaging Status Fights booms of the out mane control. C1. 0F7L_RR_00F4_2 2181214102140_20181214102140_C011 Ocen Rays Averaging Status Fights booms of the out mane control. C2. 0F4L_RR_00F4_2 21812141102140_20181214102140_C011 Ocen Rays Averaging Status Fights booms of the out mane control. C2. 0F4L_RR_00F4_2 21812141102140_20181214102140_C011 Ocen Rays Averaging Status Fights The Ocen Rays Averaging Status Fights booms of the out mane control. C3. 0F7L_RR_00F4_2 281812141102140_C011 Ocen Rays Averaging Status Fights The Ocen Rays Averaging Status Fights Fights Fights booms of the out mane control. C3. 0F7L_RR_00F4_2 281812141102140_C011 Ocen Rays Averaging Status Fights Fights Fights Fights Fights booms of the out mane control. The Ocen Rays Averaging Status Fights Fights	CS_OFFL_SIR_IOPM_2_20181214T014456_20181214T020228_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
0.10PTL_00_10PTL_20051214702242_0019214702245_0019214702245_0019214702455_0019214702455_0019214700142_0019714700142_00192147001420_0019214700142_0019214700142_0019214700142_0019214700142_0019214700142_0019214700142_0019214700142_0019214700142_001921 Coam Range Anergry Solar The Coam Range Anerg	CS_OFFL_SIR_IOPM_2_20181214T021540_20181214T021708_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Dip. Des. J. Des. J. Barg. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. J. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status. The Over Resp. Ansaging Status. The Over Resp. Ansaging Status. Dip. Des. Resp. Ansaging Status.	CS_OFFL_SIR_IOPM_2_20181214T022612_20181214T023445_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
GL OFFL_SR_UON_2_20181241700289_20181241700140_C01 Ive Rusp. Averaging Slaute. The Data. Rusp. Averaging Slaute.	CS_OFFL_SIR_IOPM_2_20181214T024758_20181214T025150_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CL_GPL_SR_OPM_2_20181714103402_20181714103412_CD Deam Rong-Averaging Status The Deam Rong-Averaging	CS_OFFL_SIR_IOPM_2_20181214T025609_20181214T030143_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
C21_CFL_SR_IOPL 2_0119121703544_0119214703554_001 Ocen Parge Averaging Status The Count Range Averaging Status The Count Range Averaging Status Flag has been set for one or more early. C3_CFL_SR_IOPL 2_0119117103430_0119171014010_0011 Ocen Parge Averaging Status The Count Range Averaging Status Flag has been set for one or more early. C3_CFL_SR_IOPL 2_0119121703440_0119171014010_0011 Ocen Parge Averaging Status The Count Range Averaging Status Flag has been set for one or more early. C3_CFL_SR_IOPL 2_0119121703440_0119171014010_0011 Ocen Parge Averaging Status The Count Range Averaging Status Flag has been set for one or more early. C3_CFL_SR_IOPL 2_0119121703420_0119171014020_0011 Ocen Parge Averaging Status The Count Range Averaging Status Flag has been set for one or more early. C3_CFL_SR_IOPL 2_0119121703420_0119171014040_01191 Ocen Parge Averaging Status The Count Range Averaging Status The Count Range Averaging Status Flag has been set for one or more early. C3_CFL_SR_IOPL 2_0119121703420_0119121700340_0111 Ocean Parge Averaging Status The Count Range Averaging Status The Count Range Averaging Status C3_CFL_SR_IOPL 2_011912170340_0119121707340_0119121707340_0111121707340_0119121707340_01111107340_0111121707340_01111107340_011111107340_011111107340_011111107340_011111107340_011111107340_011111107340_011111107340_011111107340_011111107340_011111107340_011111107340_01111111107340_011111107340_011111107340_011111107340_0111111107340_0111111107340_011111107340_011111107340_011111107340_011111107340_011111107340_0111111107340_0111111107340_011111111107340_0111111107340_011111111107340_	CS_OFFL_SIR_IOPM_2_20181214T030826_20181214T034122_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
Count State Analysis Count State Analysis Count State Analysis Count State Analysis CS, OFL, SHI, OFM 2, 201912141045102, 201912141045012, 20191 Count Range Analysis The Count Range Analysis State Flag Neerging State Flag Nee	CS_OFFL_SIR_IOPM_2_20181214T035444_20181214T035548_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS, DFL, SH, OPM 2, 20191214103630, 201912410001 Const. Range Averaging Status The Const. Range Averag	CS_OFFL_SIR_IOPM_2_20181214T041414_20181214T043041_C001	Ocean Range Averaging Status	
Co, GH, SH, DMA 2, 2018/21/1004/52, 2018/21/1024/50, 2010 Coan Range Averaging Status Field Coan Range Averaging Status Field Coan Range Averagin	CS_OFFL_SIR_IOPM_2_20181214T043530_20181214T044038_C001	Ice Range Averaging Status	0 0 0
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CS_OFFL_SIR_IOPM_2_201812141103/44_2018121411025_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T111603_20181214T111025_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T111603_20181214T112141_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T1122106_20181214T112319_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T122303_20181214T123239_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T123305_20181214T123239_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T13335_20181214T132330_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T133320_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T133320_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T142739_C001 Ocean Range Averaging Stat	CS_OFFL_SIR_IOPM_2_20181214T094534_20181214T100015_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201812141104652_2018121411102_0011 Ice Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T11210_00181214T112141_C0011 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T112510_00181214T112130_C0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T122302_0181214T122319_C0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T12332_0181214T123238_C0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T12335_0181214T123238_C0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_0181214T130355_0181214T133230_C0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_0181214T133322_0181214T134133_C0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_0181214T13552_0181214T142739_C0011 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_0181214T143448_0181214T144021_C0011	CS_OFFL_SIR_IOPM_2_20181214T103744_20181214T104644_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214T11510_20181214T11214T_C001 Ide range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T112510_20181214T112319_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T122323_20181214T123238_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T123323_20181214T123238_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T12335_20181214T123238_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T13355_20181214T133230_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T134133_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T135522_20181214T134133_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T13552_20181214T142739_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T144482_20181214T144021_C001	CS_OFFL_SIR_IOPM_2_20181214T104652_20181214T111025_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201812141112510_201812141112319_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T122323_20181214T122319_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T123232_20181214T123233_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T123815_20181214T123232_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T13335_20181214T133230_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T133230_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T134133_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T135522_20181214T142739_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T144021_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001	CS_OFFL_SIR_IOPM_2_20181214T111603_20181214T112141_C001	Ice Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214112210_20181214112239_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T122323_20181214T123238_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T123815_20181214T123238_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T130355_20181214T133230_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T133392_20181214T133230_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T133392_20181214T134133_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T134332_0181214T142739_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T144021_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T144021_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T162030_C001	CS_OFFL_SIR_IOPM_2_20181214T112510_20181214T114140_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214T12323_20181214T12323_c001Ocean Range Averaging Statusrecords.CS_OFFL_SIR_IOPM_2_20181214T123815_20181214T124827_c001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T130355_20181214T133230_c001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T133230_c001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T142739_c001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T1442739_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T14407_C001Ice Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T153412_20181214T160730_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T16351_20181214T161903_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T16351_20181214T161903_C001Ice Range Averaging StatusThe Ocean Range Averaging St	CS_OFFL_SIR_IOPM_2_20181214T122106_20181214T122319_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201812141123815_20181214112427_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T130355_20181214T133230_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T134133_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T135522_20181214T142739_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T144021_C001Ice Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T144001_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T144807_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T153412_20181214T160730_C001Ocean Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001Ice Range Averaging StatusThe Ocean Range Averaging Status Flag has been set for one or more records.CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T164044_C001	CS_OFFL_SIR_IOPM_2_20181214T122323_20181214T123238_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201812141130355_201812141133230_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T134133_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T135522_20181214T142739_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T144021_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T144331_20181214T144001_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T144007_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T15312_20181214T160730_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161093_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T164044_C001	CS_OFFL_SIR_IOPM_2_20181214T123815_20181214T124827_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T1434135_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T142739_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T144021_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T14331_20181214T144807_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T153412_20181214T160730_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T160730_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T164044_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T16163542_20181214T164044_C001	CS_OFFL_SIR_IOPM_2_20181214T130355_20181214T133230_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214T1433522_0181214T144021_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T144331_20181214T144001_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T153412_20181214T160730_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T164044_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T162342_20181214T164044_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20181214T133932_20181214T134133_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214T143446_20181214T144021_C001 Ice Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T14331_20181214T144807_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T153412_20181214T160730_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T160730_C001 Ice Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T164044_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20181214T135522_20181214T142739_C001	Ocean Range Averaging Status	records.
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CS_OFFL_SIR_IOPM_2_20181214T153915_20181214T160730_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T16351_20181214T160730_C001 Ocean Range Averaging Status The Ocean Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001 Ice Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T164044_C001 Ocean Range Averaging Status The loce Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20181214T144331_20181214T144807_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214T16351_20181214T161903_C001 Ocean Range Averaging Status records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001 Ice Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records. CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T164044_C001 Ocean Range Averaging Status The Ice Range Averaging Status Flag has been set for one or more records.	CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_201612141161351_201612141161005_C001 ICC Range Averaging Status records. The Ocean Range Averaging Status Flag has been set for one or more	CS_OFFL_SIR_IOPM_2_20181214T153412_20181214T160730_C001	Ocean Range Averaging Status	records.
US DEEL SIR IDPM 2 2018121411b2342 2018121411b4044 CUUT IDCean Range Averaging Status	CS_OFFL_SIR_IOPM_2_20181214T161351_20181214T161903_C001	Ice Range Averaging Status	records.
	CS_OFFL_SIR_IOPM_2_20181214T162342_20181214T164044_C001	Ocean Range Averaging Status	

CS_OFFL_SIR_IOPM_2_20181214T171222_20181214T174605_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T175035_20181214T175350_C001	Ice Range Averaging Status	records. The loe Range Averaging Status Flag has been set for one or more records.
CS OFFL SIR IOPM 2 20181214T175357 20181214T175404 C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T175408_20181214T175805_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T180250_20181214T182905_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20181214T182921 20181214T183627 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20181214T183758 20181214T184031 C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20181214T185215 20181214T190327 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS OFFL SIR IOPM 2 20181214T190809 20181214T190958 C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T191000_20181214T192532_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T192731_20181214T193249_C001	Ice Range Averaging Status	records. The Ice Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T193308_20181214T193507_C001	Ice Range Averaging Status	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
CS_OFFL_SIR_IOPM_2_20181214T194336_20181214T195624_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T195838_20181214T201203_C001	Ocean Range Averaging Status	records. The Ocean Range Averaging Status Flag has been set for one or more
CS_OFFL_SIR_IOPM_2_20181214T201216_20181214T201533_C001	Ocean Range Averaging Status	records.
CS_OFFL_SIR_IOPM_2_20181214T203801_20181214T204828_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T205008_20181214T210416_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T210656_20181214T211200_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T211224_20181214T211339_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T212030_20181214T212128_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T212955_20181214T213216_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T214338_20181214T215014_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T222159_20181214T222440_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T222640_20181214T224312_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T224701_20181214T225116_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T225137_20181214T225323_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T225750_20181214T233210_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181214T035325_20181214T035351_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181214T135059_20181214T135522_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181214T161032_20181214T161351_C001	Ice Range Averaging Status	The Ice Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181214T170114_20181214T170231_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181214T184032_20181214T184142_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181214T215049_20181214T215211_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181214T030502_20181214T030826_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181214T130255_20181214T130354_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181214T185130_20181214T185215_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPR_2_20181214T215501_20181214T215505_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
	1	1

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 set.

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. 82

Product	Test Failed	Description
CS_OFFL_SIR_IOPM_2_20181214T003934_20181214T011336_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T011610_20181214T012112_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T012917_20181214T013919_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T014456_20181214T020228_C001	0 0	The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T021540_20181214T021708_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T022612_20181214T023445_C001		The SWH and Ocean Averaging Status Flags have been set for one or more records.

CS_OFFL_SIR_IOPM_2_20181214T024758_20181214T025150_C001 CS_OFFL_SIR_IOPM_2_20181214T025609_20181214T030143_C001 CS_OFFL_SIR_IOPM_2_20181214T030826_20181214T034122_C001 CS_OFFL_SIR_IOPM_2_20181214T035444_20181214T035548_C001 CS OFFL SIR IOPM 2 20181214T041414 20181214T043041 C001 CS OFFL SIR IOPM 2 20181214T043530 20181214T044038 C001 CS OFFL SIR IOPM 2 20181214T044658 20181214T052051 C001 CS OFFL SIR IOPM 2 20181214T054515 20181214T054936 C001 CS_OFFL_SIR_IOPM_2_20181214T055032_20181214T060810_C001 CS_OFFL_SIR_IOPM_2_20181214T062653_20181214T064223_C001 CS_OFFL_SIR_IOPM_2_20181214T064227_20181214T064454_C001 CS_OFFL_SIR_IOPM_2_20181214T064840_20181214T065701_C001 CS OFFL SIR IOPM 2 20181214T071541 20181214T073338 C001 CS_OFFL_SIR_IOPM_2_20181214T073458_20181214T074850_C001 CS_OFFL_SIR_IOPM_2_20181214T075651_20181214T075851_C001 CS OFFL SIR IOPM 2 20181214T080000 20181214T080352 C001 CS_OFFL_SIR_IOPM_2_20181214T080549_20181214T082109_C001 CS_OFFL_SIR_IOPM_2_20181214T082310_20181214T083233_C001 CS_OFFL_SIR_IOPM_2_20181214T085044_20181214T085156_C001 CS_OFFL_SIR_IOPM_2_20181214T085525_20181214T085652_C001 CS_OFFL_SIR_IOPM_2_20181214T085823_20181214T091139_C001 CS OFFL SIR IOPM 2 20181214T092745 20181214T093107 C001 CS_OFFL_SIR_IOPM_2_20181214T094534_20181214T100015_C001 CS OFFL SIR IOPM 2 20181214T103744 20181214T104644 C001 CS OFFL SIR IOPM 2 20181214T104652 20181214T111025 C001 CS_OFFL_SIR_IOPM_2_20181214T111330_20181214T111539_C001 CS_OFFL_SIR_IOPM_2_20181214T111603_20181214T112141_C001 CS_OFFL_SIR_IOPM_2_20181214T112510_20181214T114140_C001 CS_OFFL_SIR_IOPM_2_20181214T122106_20181214T122319_C001 CS OFFL SIR IOPM 2 20181214T122323 20181214T123238 C001 CS_OFFL_SIR_IOPM_2_20181214T123815_20181214T124827_C001 CS_OFFL_SIR_IOPM_2_20181214T130355_20181214T133230_C001 CS OFFL SIR IOPM 2 20181214T133932 20181214T134133 C001 CS_OFFL_SIR_IOPM_2_20181214T135522_20181214T142739_C001 CS_OFFL_SIR_IOPM_2_20181214T143448_20181214T144021_C001 CS OFFL SIR IOPM 2 20181214T144331 20181214T144807 C001 CS_OFFL_SIR_IOPM_2_20181214T151915_20181214T152134_C001 CS_OFFL_SIR_IOPM_2_20181214T153412_20181214T160730_C001 CS OFFL SIR IOPM 2 20181214T161351 20181214T161903 C001 CS OFFL SIR IOPM 2 20181214T162342 20181214T164044 C001 CS_OFFL_SIR_IOPM_2_20181214T171222_20181214T174605_C001 CS_OFFL_SIR_IOPM_2_20181214T175035_20181214T175350_C001 CS_OFFL_SIR_IOPM_2_20181214T175357_20181214T175404_C001 CS OFFL SIR IOPM 2 20181214T175408 20181214T175805 C001 CS_OFFL_SIR_IOPM_2_20181214T180250_20181214T182905_C001 CS_OFFL_SIR_IOPM_2_20181214T182921_20181214T183627_C001 CS OFFL SIR IOPM 2 20181214T183758 20181214T184031 C001 CS_OFFL_SIR_IOPM_2_20181214T185215_20181214T190327_C001 CS_OFFL_SIR_IOPM_2_20181214T190809_20181214T190958_C001 CS OFFL SIR IOPM 2 20181214T191000 20181214T192532 C001 CS_OFFL_SIR_IOPM_2_20181214T192731_20181214T193249_C001 SWH Averaging Status, Ocean Backscatter Averaging Status

Ice Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status

SWH Averaging Status, Ocean Backscatter Averaging Status SWH Averaging Status, Ocean Backscatter Averaging Status Ice Backscatter Averaging Status

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Ice Backscatter Averaging Status

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The Ice Backscatter Averaging Status Flag has been set for one or more records.

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more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

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The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The SWH and Ocean Averaging Status Flags have been set for one or more records.

The Ice Backscatter Averaging Status Flag has been set for one or more records.

CS_OFFL_SIR_IOPM_2_20181214T193308_20181214T193507_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T194336_20181214T195624_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_20181214T195838_20181214T201203_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_20181214T201216_20181214T201533_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_20181214T203801_20181214T204828_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_20181214T205008_20181214T210416_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_20181214T210656_20181214T211200_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T211224_20181214T211339_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T212955_20181214T213216_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_20181214T214338_20181214T215014_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_20181214T222159_20181214T222440_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_20181214T222640_20181214T224312_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_20181214T224701_20181214T225116_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T225137_20181214T225323_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPM_2_20181214T225750_20181214T233210_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_IOPN_2_20181214T035325_20181214T035351_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_IOPN_2_20181214T135059_20181214T135522_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_IOPN_2_20181214T161032_20181214T161351_C001	Ice Backscatter Averaging Status	The Ice Backscatter Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOPN_2_20181214T170114_20181214T170231_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_IOPN_2_20181214T184032_20181214T184142_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_IOPN_2_20181214T215049_20181214T215211_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_IOPR_2_20181214T030502_20181214T030826_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_IOPR_2_20181214T130255_20181214T130354_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_IOPR_2_20181214T185130_20181214T185215_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_IOPR_2_20181214T215501_20181214T215505_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or 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.

Ocean Retracking Quality Flag: This flag is currently set for products over land and sea ice, but this is to be expected. The number of products with this error flag set is given below. Number of products with errors: 57

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). 0

0

0

Number of products with errors:

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.

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:

28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20181214T003150_20181214T012128_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_220181214T012128_20181214T021104_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_220181214T021104_20181214T030042_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_220181214T030042_20181214T035018_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T035018_20181214T043955_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_220181214T043955_20181214T052931_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_220181214T052931_20181214T061909_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T061909_20181214T070845_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_220181214T070845_20181214T075822_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T075822_20181214T084758_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_220181214T084758_20181214T093736_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_220181214T093736_20181214T102712_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_220181214T102712_20181214T111650_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_220181214T111650_20181214T120626_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_220181214T120626_20181214T125603_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T125603_20181214T134539_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_220181214T134539_20181214T143517_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T143517_20181214T152453_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_220181214T152453_20181214T161430_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_220181214T161430_20181214T170406_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_220181214T170406_20181214T175344_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T175344_20181214T184320_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_220181214T184320_20181214T193257_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_220181214T193257_20181214T202233_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T202233_20181214T211211_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_220181214T211211_20181214T220147_C001	Ocean Range Averaging Status	The Ocean Range Averaging Status Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T220147_20181214T225124_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_220181214T225124_20181214T234101_C001	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 set.

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. 28

Product	Test Failed	Description
CS_OFFL_SIR_IOP_220181214T003150_20181214T012128_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_220181214T012128_20181214T021104_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_220181214T021104_20181214T030042_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_220181214T030042_20181214T035018_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_220181214T035018_20181214T043955_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_220181214T043955_20181214T052931_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.

	SWH Averaging Status, Ocean	
CS_OFFL_SIR_IOP_220181214T052931_20181214T061909_C001	Backscatter 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_220181214T061909_20181214T070845_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_220181214T070845_20181214T075822_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_220181214T075822_20181214T084758_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_220181214T084758_20181214T093736_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_2_20181214T093736_20181214T102712_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_220181214T102712_20181214T111650_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_220181214T111650_20181214T120626_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_220181214T120626_20181214T125603_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_220181214T125603_20181214T134539_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_220181214T134539_20181214T143517_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_2_20181214T143517_20181214T152453_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_220181214T152453_20181214T161430_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_220181214T161430_20181214T170406_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_220181214T170406_20181214T175344_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_2_20181214T175344_20181214T184320_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_220181214T184320_20181214T193257_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_2_20181214T193257_20181214T202233_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_220181214T202233_20181214T211211_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_2_20181214T211211_20181214T220147_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_2_20181214T220147_20181214T225124_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_220181214T225124_20181214T234101_C001	SWH Averaging Status, Ocean Backscatter Averaging Status	The SWH and Ocean Averaging Status Flags have been set for one or more records.

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: 27		
Product	Test Failed	Description
CS_OFFL_SIR_IOP_2_20181214T003150_20181214T012128_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T021104_20181214T030042_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T030042_20181214T035018_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T035018_20181214T043955_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T043955_20181214T052931_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T052931_20181214T061909_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T061909_20181214T070845_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T070845_20181214T075822_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T075822_20181214T084758_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T084758_20181214T093736_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T093736_20181214T102712_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T102712_20181214T111650_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T111650_20181214T120626_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T120626_20181214T125603_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T125603_20181214T134539_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.

CS_OFFL_SIR_IOP_220181214T134539_20181214T143517_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T143517_20181214T152453_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T152453_20181214T161430_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T161430_20181214T170406_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T170406_20181214T175344_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T175344_20181214T184320_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T184320_20181214T193257_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T193257_20181214T202233_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T202233_20181214T211211_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T211211_20181214T220147_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T220147_20181214T225124_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.
CS_OFFL_SIR_IOP_220181214T225124_20181214T234101_C001	Ocean Retracking Quality Flag	The Ocean Retracking Quality Flag has been set for one or more records.