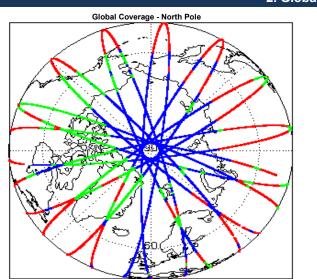
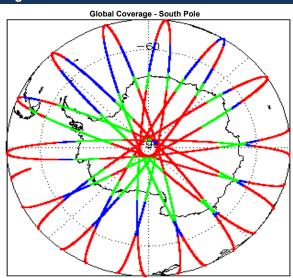


IDEAS+ Daily Report for OFFLINE data:

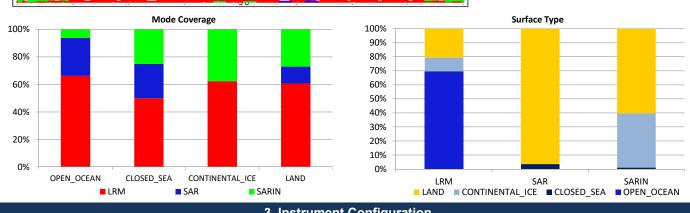
<u>08/12/2018</u>

	1. Overview				
		Check	Status		
Report Production Date:	15-Jan-2019	Server check: science-pds.cryosat.esa.int	Nominal		
	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal		
Processor Used:		Product Software Check	Nominal		
Detallesd		Product Format Check	Nominal		
Data Used:	L1B and L2 OFFLINE Data	Product Header Analysis	See Section 4.2 and 5.2		
		Star Tracker Usage Check	Nominal		
		L1B Calibration Usage Check	Nominal		
		L1B & L2 Auxiliary Data File Usage Check	Nominal		
		L1B & L2 Auxiliary Correction Error Check	Nominal		
		L1B & L2 Measurement Confidence Data Check	See Section 4.7 and 5.5		
ission / Instrument News					
07-Dec-2018 None					
08-Dec-2018 None					
09-Dec-2018 Nothing planned					
		2. Global Coverage			





Mode Coverage (%)		
	LRM	64.6
	SAR	21.4
	SARIn	14.0



3. Instrument Configuration

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

4. 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 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 carried out 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: 2		
Product CS_OFFL_SIR_SAR_1B_20181208T223252_20181208T223254_C001.DBL	Test Failed	rs detected greater than minimum acceptable threshold.
CS OFFL SIR SAR 1B 20181208T070816 20181208T070817 C001.DBL		rs detected greater than minimum acceptable threshold.
	· ····································	
4.3 Star Tracker Usage Check		
Each product is checked in order to ensure a valid star tracker file has been used in pro	ocessing.	
Number of products with errors: 0		
4.4 L1B Calibration Usage Check		
Each product is checked in order to ensure that the necessary calibration files have bee	en used in processing.	
Number of products with errors: 0		
4.5 L1B Auxilary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-determ	ined baseline and also to check the v	validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
4.6 L1B Auxiliary Correction Error Check		
CryoSat L1B data includes a correction error flag (field 54) for each measurement recor	rd. The bit value of this flag indicates	any problems when set.
Number of products with errors: 0		
4.7 L1B Measurement Confidence Data Check		
CryoSat L1B data includes a measurement confidence flag (field 18) for each measure	ment record. The bit value of this flaç	j indicates any problems when set.
Currently, there are several common error flags raised in the Level 1B products v below, followed by a table of any additional issues arising from this test.	which are expected due to operation	onal mode or surface type. All common flags are summarised in the list
Block Degraded Flag: This flag is currently set for a number of individual records gene	erally at the start or end of products (all modes), but this is to be expected.
Phase Perturbation Flag: This flag is currently set for all L1B SARIn products, indicati	ing that the ADC correction application	on is deactivated, but this is in line with the current configuration.
Number of products with errors: 1		
Product Te	est Failed	Description
CS_OFFL_SIR_LRM_1B_20181207T235605_20181208T002427_C001	ho error, TRK echo error	The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
5. Leve	el 2 Data Quality Cheo	ck
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 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 carried out 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		
Product	Test Failed	
CS_OFFL_SIR_SAR_220181208T223253_20181208T223254_C001.DBL	Percentage of processing erro	rs detected greater than minimum acceptable threshold.
5.3 L2 Auxiliary Data File Usage Check		
Each product is checked for missing Data Set Descriptors with respect to a pre-determ	ined baseline and also to check the v	validity of Auxiliary Data Files is correct.
Number of products with errors: 0		
5.4 L2 Auxiliary Correction Error Check		
CryoSat L2 data includes a correction error flag (field 30) for each measurement record	. The bit value of this flag indicates a	any problems when set.

Number of products with errors:

0

5.5 L2 Measurement Quality Flag Check

CryoSat L2 data includes a quality flag (field 50) for each 20-Hz measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 2 products which are expected due to operational mode or surface type. All common flags are summarised in the list below, followed by a table of any additional issues arising from this test.

Freeboard error: This flag is correctly set in all L2 SAR products that are not discriminated as sea-ice, and for which freeboard cannot be calculated.

Height and Backscatter errors: These flags are currently set for products over land, but this is to be expected. Retracker 1 Height and Backscatter error flags are also set for products over sea-ice, but this is to be expected.

Peakiness error: This flag is currently set for products over sea-ice, but this is to be expected.

100

SARIN X-Track Angle Error: This flag is set when the difference between the computed surface elevation and the DEM is >50 m. The DEM is only available over Greenland and Antarctica and as a result this flag is set for L2 SARIn products in all other locations as expected.

SSHA interpolation error: This flag is currently set for a number of SAR products occurring at surface type boundaries, but this is to be expected.

Number of products with errors:

Product Partner Partner Partner Colors, SR, UMA 2, 2018/2017/20200, 2018/2017/02200, 0001 Adapt File (Marchard) 2, Nakkadal) Them is a height and backacker one file Marchard 2 for one nume Colors, SR, UMA 2, 2018/2017/20200, 2018/2017/02200, 0001 Adapt File (Marchard) 2, Nakkadal) Them is a height and backacker one file Marchard 2 for one nume Colors, SR, UMA 2, 2018/2017/02200, 2018/2017/02200, 0001 Adapt File (Marchard) 2, Nakkadal) Them is a height and backacker one file Marchard 2 for one nume Colors, SR, UMA 2, 2018/2017/02200, 2018/2017/02200, 0001 Marchard 2, Nakkadal Them is a height and backacker one file Marchard 2 for one nume Colors, SR, UMA 2, 2018/2017/02200, 0001 Marchard 2 for One nume record Marchard 2 for one nume record Colors, SR, UMA 2, 2018/2017/02200, 0001 Marchard 2 for One nume record Marchard 2 for One nume record Colors, SR, UMA 2, 2018/2017/02200, 0001 Marchard 2 for One nume record Marchard 2 for One nume record Colors, SR, UMA 2, 2018/2017/02200, 0001 Marchard 2 for One nume record Marchard 2 for One nume record Colors, SR, UMA 2, 2018/2017/02100, 0001 Marchard 2 for One nume record Marchard 2 for One nume record Colors, SR, UMA 2, 2018/2017/0210, 0001 Marchard 2 for One nume record Marchard 2 for One nume record			
Control Control <t< td=""><td>Product</td><td>Test Failed</td><td>Description</td></t<>	Product	Test Failed	Description
Number Of Control (Not Control (Not Not Not Not Not Not Not Not Not Not	CS_OFFL_SIR_LRM_220181207T235605_20181208T002427_C001		
Back Philippe Back Philippe Back Philippe Back Philippe C3, OFFL_SRL, LAN_2_D011281101102 20111201102002 Berging threader 3) Howes in a height and backaceter own on Relation? 2 for an or more records C3, OFFL_SRL, LAN_2_D011281102102022 20111201102020 Safean Model Userabelie Nord E in a height and backaceter own on Relation? 2 for an or more records C3, OFFL_SRL, LAN_2_D0112811020120202 Safean Model Userabelie No DEM in Stage Model area used for the backacit or own or more records C3, OFFL_SRL, LAN_2_D01128110201202102010 Safean Model Userabelie No DEM in Stage Model area used for the backacit of own or more records C3, OFFL_SRL, LAN_2_D01128110201201102002 Safean Model Userabelie No DEM in Stage Model area used for the backacit of own or more records C3, OFFL_SRL, LAN_2_D01128110201201102002 Safean Model Userabelie No DEM in Stage Model area used for the backacit of own or more records C3, OFFL_SRL, LAN_2_D011281102012011010201 Safean Model Userabelie No DEM in Stage model and backaceter even for Relation2 2 for own or more records C3, OFFL_SRL, LAN_2_D011281102012012012012012012012012012012012012	CS_OFFL_SIR_LRM_220181208T005524_20181208T012058_C001		
Sc. DFL_SRL_EMUONLEDUCTURE_POINT LATIONAL_CONT Proc (brancher 2) Proc (brancher 2) Sc. DFL_SRL_EMUONLEDUCTURE_2DUPERTURE_STATUTURE_CONT Proc (brancher 2) Proc (brancher 2) Sc. DFL_SRL_EMUONLEDUCTURE_2DUPERTURE_STATUTURE_STA	CS_OFFL_SIR_LRM_220181208T013626_20181208T014638_C001	0	÷
CS_OFFL_SR_LMM_2_0101200702222_2010120071020102_001120000_0011 Surface Model Unavailable No DEM or Slipe Model was used for the backing of one or more exceeds CS_OFFL_SR_LMM_2_0101200102_0011200102_0011200102_00101 Surface Model Unavailable No DEM or Slipe Model was used for the backing of one or more exceeds CS_OFFL_SR_LMM_2_0101200102_0011200102_00101100000_0011 Surface Model Unavailable No DEM or Slipe Model was used for the backing of one or more exceeds CS_OFFL_SR_LMM_2_0101200102_00102001_001010000_0011 Every (Rescarder 2) Bestocetter intere exceeds CS_OFFL_SR_LMM_2_01012001024207_0010100100002_0011 Every (Rescarder 2) Bestocetter intere exceeds CS_OFFL_SR_LMM_2_01012001024207_00102001020002_0011 Every (Rescarder 2) Bestocetter intere exceeds CS_OFFL_SR_LMM_2_0101200102202_0011 Every (Rescarder 2) Hestocetter intere exceeds CS_OFFL_SR_LMM_2_010120010220_0011 Every (Rescarder 2) Hestocetter intere exceeds CS_OFFL_SR_LMM_2_010120010220_0011 Every (Rescarder 2) Hestocetter intere exceeds CS_OFFL_SR_LMM_2_0101200102002_0011 Surface Model Unavailable There is a height and backcarder error for Rescarder 2 and a height error (Rescarder 2) Hestocetter intere exceeds CS_OFFL_SR_LMM_2_0101200102002010 Surface Model Unavailable There is a height and backcarder error for Rescarder 2 and a height error (Rescarder 2) Hestocetter intere exceeds CS_OFFL_SR_LMM_2_01012001020010201001000102	CS_OFFL_SIR_LRM_220181208T015216_20181208T020926_C001		
Open Link L Control Control Head is a long to an expectation of the control of the c	CS_OFFL_SIR_LRM_220181208T023224_20181208T023814_C001	(Retracker 3), Backscatter Error	
CSUPTL SRL LPM 2_ 20181208170422 (201812081704282) (2001 Enror (Retracker 2) exacts CS_OPFL_SRL LPM 2_ 201812081704012 (2018120817043800 (2001) Enror (Retracker 2) Backstatts CS_OPFL_SRL LPM 2_ 2018120817040137 (201812081705282) (2001) Height Enror (Retracker 2) Backstatts CS_OPFL_SRL LPM 2_ 2018120817042330 (2001) Height Enror (Retracker 2) Backstatts CS_OPFL_SRL LPM 2_ 201812081704232 (201812081705282) (2001) Height Enror (Retracker 2) Height Enror (Retracker 2) CS_OPFL_SRL LPM 2_ 201812081704232 (201812081705282) (2001) Height Enror (Retracker 2) Height Enror (Retracker 2) CS_OPFL_SRL LPM 2_ 201812081704232 (201812081705270) (2001) Height Enror (Retracker 2) Height Enror (Retracker 2) CS_OPFL_SRL LPM 2_ 2018120817064342 (2018120817062700 (2001) Surface Model Unavailable No DEM or Supe Model was used for the backston 0 are or more records CS_OPFL_SRL LPM 2_ 2018120817064342 (2001) Height Enror (Retracker 2) Height Enror (Retracker 2) CS_OPFL_SRL LPM 2_ 2018120817064342 (2001) Surface Model Unavailable No DEM or Supe Model was used for the backston 0 are or more records CS_OPFL_SRL LPM 2_ 2018120817080142 (2001) Surface Model Unavailable No DEM or Supe Model was used for the backston 2 and a height enror freeBacker 3) CS_OPFL_SRL LP	CS_OFFL_SIR_LRM_220181208T030326_20181208T030906_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CSL_DFL_SRL_ND_2_0161206T025172_20161206T02503_0001 Enry (Nettodard 2) records CSL_OFFL_SRL_ND_2_0161206T025172_20172_0161206T02503_0001 Height Enry (Nettodard 2) Backscatter There is a height and backscatter enror for Retasker 2 for one or more encods CSL_OFFL_SRL_ND_2_0161206T02503_00161206T02503_0001 Height Enry (Nettodard 2) Backscatter There is a height and backscatter enror for Retasker 2 and a height enror for Retasker 2 for one or more records CS_OFFL_SR_LRM_2_20161206T00505102_20161206T00636_2001 Barbace Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SR_LRM_2_20161206T005050_20161206T00636_2001 Brites Height Enry (Retasker 2) Backscatter T	CS_OFFL_SIR_LRM_220181208T031543_20181208T034827_C001		
CS_OFT_SIR_LINK_2_20181208104523_0181208105232_0001 Error (Retracker 2) From (Retracker 2	CS_OFFL_SIR_LRM_220181208T040921_20181208T041016_C001		
CS_UFL_SIL_LR0_20113.08 (IRSU2_0112811062832_001) Enror (Retracker 2), Height Enror (Retracker 2), Height Enror (Retracker 2), Backet Enror (Retracker 2), B	CS_OFFL_SIR_LRM_220181208T042137_20181208T043803_C001		
CS_OFFL_SIR_LRM_2_20191208T05235_20191208T065700_C001 [Retractor 2] Interactor 3] Int	CS_OFFL_SIR_LRM_220181208T045423_20181208T052823_C001		
CS_OFFL_SIR_LRM_2_20181208T062454_20181208T062703_C001 Surface Model Unavailable No DEM or Stope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T062454_20181208T062703_C001 Surface Model Unavailable No DEM or Stope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T063411_20181208T07637_C001 Heigh Error (Retracker 2), Heigh Error (Retracker 2), Heigh Error (Retracker 2), Leigh Error (Retracker 2), Le	CS_OFFL_SIR_LRM_220181208T055235_20181208T055709_C001	(Retracker 3), Backscatter Error (Retracker 2)	
Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LEM_2_20181208T070257_20181208T070637_C001 Height Error (Retracker 2), Backscatter (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LEM_2_20181208T080414_20181208T080812_C001 Surface Model Unavailable No DEM or Sixpe Model was used for the location of one or more records CS_OFFL_SIR_LEM_2_20181208T08034_20181208T080955_C001 Height Error (Retracker 2), Height Error (Retracker 2) There is a height and backscatter error for Retracker 2, and a height error for Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LEM_2_20181208T08034_20181208T080955_C001 Height Error (Retracker 2), Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2) CS_OFFL_SIR_LEM_2_20181208T090156_20181208T090447_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatt	CS_OFFL_SIR_LRM_220181208T055752_20181208T061527_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20181208T063411_20181208T070837_C001 (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T07257_20181208T074125_C001 Haight Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T07257_20181208T074125_C001 Surface Model Unavailable No DEM or Skope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T080414_20181208T080802_C001 Haight Error (Retracker 2) No DEM or Skope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T08134_20181208T08385_C001 Height Error (Retracker 2) No DEM or Skope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T083034_20181208T08385_C001 Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2) CS_OFFL_SIR_LRM_2_20181208T090156_20181208T090447_C001 Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2) is adviscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T090566_20181208T091917_C001 Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2) and a height error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T104534_20181208T111744_C001 Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records C	CS_OFFL_SIR_LRM_220181208T062454_20181208T062703_C001		No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_2018120810/1229/_2001 Error (Retracker 2) Backscatter From (Retracker 2) Records CS_OFFL_SIR_LRM_2_201812081010736_C001 Height Error (Retracker 2), Backscatter Error (R	CS_OFFL_SIR_LRM_220181208T063411_20181208T070637_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_201812087081314_201812087082832_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Backscat	CS_OFFL_SIR_LRM_220181208T072257_20181208T074125_C001		
CS_OFFL_SIR_LRM_2_20181208T08134_20181208T082832_C001 (Retracker 3), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T083034_20181208T083965_C001 (Retracker 2) Height Error (Retracker 2) Height Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T090156_20181208T090447_C001 Error (Retracker 2) ES_OFFL_SIR_LRM_2_20181208T090546_20181208T091917_C001 Height Error (Retracker 2) Retracker 2) Height Error (Retracker 2) SS_OFFL_SIR_LRM_2_20181208T090556_20181208T091917_C001 Height Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T090555_20181208T00736_C001 Error (Retracker 2) Retracker 2) Height Error (Retracker 2), Backscatter CS_OFFL_SIR_LRM_2_20181208T104534_20181208T110736_C001 Height Error (Retracker 2), Backscatter CS_OFFL_SIR_LRM_2_20181208T112045_0181208T1112303_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T1112312_20181208T1112309_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T113232_20181208T113209_C001 Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 or one or more records CS_OFFL_SIR_LRM_2_20181208T113232_20181208T113209_C001 Error (Retracker 2), Backscatter There is a height	CS_OFFL_SIR_LRM_220181208T080414_20181208T080612_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20181208T083034_20181208T083955_0001 (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T090156_20181208T090447_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Leight Error (Retra	CS_OFFL_SIR_LRM_220181208T081314_20181208T082832_C001	(Retracker 3), Backscatter Error (Retracker 2)	
CS_OFFL_SIR_LRM_2_201812081090546_20181208109044/_C001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_201812081090546_201812081091917_C001 Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 2). CS_OFFL_SIR_LRM_2_201812081095265_201812081100736_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_201812081112081095265_201812081111744_C001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_201812081112048_201812081112303_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_201812081112312_201812081112909_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_201812081112322_201812081115728_C001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208112823_201812081123957_C001 Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 and a height error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208112823_201812081123957_C001 Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_201812081131112_201812081134014_C001 Height Error (Retracker 2), Backscatter error for Retrac	CS_OFFL_SIR_LRM_220181208T083034_20181208T083955_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20181208T090546_20181208T091917_C001 (Retracker 3), Backscatter Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error (Retracker 2), Backscatter Erro	CS_OFFL_SIR_LRM_220181208T090156_20181208T090447_C001	Error (Retracker 2)	-
CS_OFFL_SIR_LRM_2_20181208T104534_20181208T111744_C001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20181208T104534_20181208T111744_C001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T112048_20181208T112303_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T112312_20181208T112309_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T113232_20181208T115728_C001 Height Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T1122837_20181208T1123957_C001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T122837_20181208T125557_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T124533_20181208T125557_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter error for Retracker 2 and a height error (Retracker 2), Heigh	CS_OFFL_SIR_LRM_220181208T090546_20181208T091917_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_201812081104534_201812081111/44_C001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_201812081112048_201812081112303_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_201812081112312_201812081112309_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_201812081113232_201812081115728_C001 Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_201812081122837_201812081123957_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error for Retracker 3), Backscatter Error for Retracker 3), Backscatter Error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_201812081124533_201812081125557_C001 Height Error (Retracker 2), Backscatter Error for Retracker 2) and a height error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_201812081131112_201812081125557_C001 Height Error (Retracker 2), Backscatter Error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_201812081131112_201812081134014_C001 (Retracker 2), Height Error (Retracker 2), Height Error for Retracker 2 and a height error for Retracker 3), Backscatter Error for Retracker 3 and a height error for Retracker 3 and a height error for Retracker 3 and a height error (Retracker 3), Backscatter Error for Retracker 3 and a height er	CS_OFFL_SIR_LRM_220181208T095255_20181208T100736_C001		
CS_OFFL_SIR_LRM_2_20181208T112312_20181208T112909_C001 Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records CS_OFFL_SIR_LRM_2_20181208T113232_20181208T115728_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T122837_20181208T123957_C001 Height Error (Retracker 2), Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20181208T124533_20181208T125557_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 Height Error (Retracker 2), Backscatter (Retracker 3), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220181208T104534_20181208T111744_C001		
CS_OFFL_SIR_LRM_2_20181208T113232_20181208T115728_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T122837_20181208T123957_C001 Height Error (Retracker 2), Height Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 3), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T124533_20181208T125557_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 3), Backscatter Error (Retracker 2) CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records	CS_OFFL_SIR_LRM_220181208T112048_20181208T112303_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20181208T122837_20181208T123957_C001 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20181208T122837_20181208T123957_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 and a height error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2), Backscatter error for Retracker 2 for one or more CS_OFFL_SIR_LRM_2_20181208T124533_20181208T125557_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (R	CS_OFFL_SIR_LRM_220181208T112312_20181208T112909_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_2_20181208T122837_20181208T123957_C001 (Retracker 3), Backscatter Error (Retracker 2) There is a height and backscatter error for Retracker 2 and a height error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T124533_20181208T125557_C001 Height Error (Retracker 2), Backscatter Error (Retracker 2), Backscatter error for Retracker 2 for one or more records CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 3), Back	CS_OFFL_SIR_LRM_220181208T113232_20181208T115728_C001		
CS_OFFL_SIR_LRM_2_201812081124533_20181208112557_C0011 Error (Retracker 2) records CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 3), Backscatter Erro	CS_OFFL_SIR_LRM_220181208T122837_20181208T123957_C001	(Retracker 3), Backscatter Error	
CS_OFFL_SIR_LRM_2_20181208T131112_20181208T134014_C001 (Retracker 3), Backscatter Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Height Error (Retracker 2), Backscatter Error (Retracker 3), Backscatter	CS_OFFL_SIR_LRM_220181208T124533_20181208T125557_C001	Error (Retracker 2)	
CS_OFFL_SIR_LRM_2_20181208T140307_20181208T141910_C001 (Retracker 3), Backscatter Error (Retracker 3), Backscatter Error	CS_OFFL_SIR_LRM_220181208T131112_20181208T134014_C001	(Retracker 3), Backscatter Error	
	CS_OFFL_SIR_LRM_220181208T140307_20181208T141910_C001	(Retracker 3), Backscatter Error	

CS_OFFL_SIR_LRM_220181208T142046_20181208T143500_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T145050_20181208T145531_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T151449_20181208T151606_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T152646_20181208T152822_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T154125_20181208T161446_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181208T163101_20181208T164803_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T165118_20181208T165629_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T171937_20181208T175331_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181208T180119_20181208T180530_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220181208T181012_20181208T183558_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181208T183622_20181208T184350_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T185929_20181208T191048_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T191529_20181208T191701_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181208T191722_20181208T193248_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T195124_20181208T200344_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T200549_20181208T202313_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T204518_20181208T205450_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181208T205652_20181208T211143_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181208T212714_20181208T212934_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T214639_20181208T215013_C001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
CS_OFFL_SIR_LRM_220181208T215057_20181208T215758_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T223451_20181208T225057_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_LRM_220181208T225900_20181208T230030_C001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220181208T230511_20181208T233929_C001	Height Error (Retracker 2), Backscatter Error (Retracker 2)	There is a height and backscatter error for Retracker 2 for one or more records
CS_OFFL_SIR_SIN_220181208T012154_20181208T012327_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T012835_20181208T012841_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T013209_20181208T013339_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T030209_20181208T030326_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T030907_20181208T030956_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T031109_20181208T031223_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T044126_20181208T044251_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T044801_20181208T045107_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T062201_20181208T062453_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T062703_20181208T063226_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T071756_20181208T072219_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220181208T080138_20181208T080413_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T080612_20181208T080733_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T081114_20181208T081252_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T085653_20181208T085804_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T085933_20181208T090156_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T093845_20181208T094230_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T095015_20181208T095201_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T103613_20181208T103837_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T103851_20181208T104037_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T111858_20181208T112048_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T112303_20181208T112312_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T120951_20181208T121007_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T121108_20181208T121138_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T125833_20181208T130012_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T130130_20181208T130258_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T130718_20181208T131009_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T143829_20181208T144209_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T144749_20181208T144903_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T152840_20181208T152929_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T161756_20181208T162113_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T162625_20181208T162750_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181208T175509_20181208T175855_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T180531_20181208T180638_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181208T184427_20181208T184607_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T184749_20181208T184903_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_2_20181208T193316_20181208T193451_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T194235_20181208T194420_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T202314_20181208T202817_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T211232_20181208T211416_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T211940_20181208T211946_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T212102_20181208T212631_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T212634_20181208T212714_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T220253_20181208T220702_C001	SARIn X-track Angle Error, Surface Model Unavailable	An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records
CS_OFFL_SIR_SIN_220181208T225142_20181208T225401_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

CS_OFFL_SIR_SIN_220181208T225838_20181208T225844_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220181208T230030_20181208T230345_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records

6. QCC Report Analysis

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

Product type	No. Products	No. QCC Reports	No. Valid	No. Warnings	No. Errors
SIR_LRM_1B	158	158	158	0	0
SIR_LRM_2	158	158	158	0	0
SIR_LRMI2_	158	158	158	0	0
SIR_SAR_1B	106	106	106	0	0
SIR_SAR_2	105	105	105	0	0
SIR_SARI2_	105	105	105	0	0
SIR_SIN_1B	101	101	101	0	0
SIR_SIN_2	101	101	101	0	0
SIR_SINI2	101	101	101	0	0
SIR_GDR_2	15	15	15	0	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 QCC Warnings			
Number of QCC reports with warnings	0		
6.2 Missing QCC Reports			
Number of products with missing QCC reports:	187		

0