

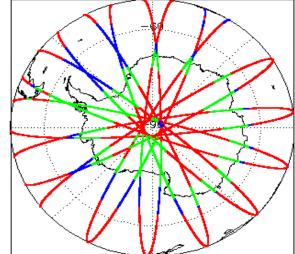
IDEAS+ Daily Report for OFFLINE data:

24/01/2017

Report Production Date:	22-Feb-2017	Check	Status	
Report Frouderion Date.	22-160-2017	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used: CryoSat Ice Processor		Server check: calval-pds.cryosat.esa.int	Nominal	
10063301 USeu.		Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data USeu.	ETB and E2 OFF EINE Data	Product Header Analysis	Nominal	
		Star Tracker Usage Check	Nominal	
		L1B Calibration Usage Check		
		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	
3-Jan-2017 None 4-Jan-2017 None				
3-Jan-2017 None 4-Jan-2017 None		2. Global Coverage		
24-Jan-2017 None 25-Jan-2017 Nothing planned	Global Coverage - North Pole		age - South Pole	

Mode Coverage

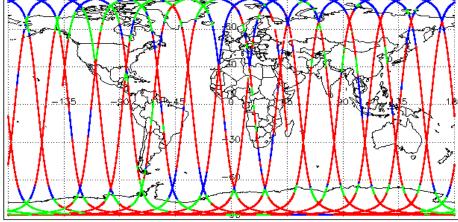
SAR

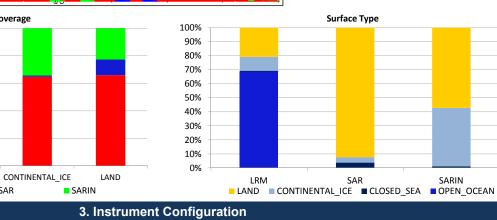


Mode Coverage (%) 20.5 LRM SAR 12.7

SARIn

0.0





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

CLOSED_SEA

LRM

OPEN_OCEAN

100%

80%

60%

40%

20%

0%

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:

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: 0

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing.

Number of products with errors:

4.4 L1B Calibration Usage Check

Each product is checked in order to ensure that the necessary calibration files have been used in processing

0

Number of products with errors:

4.5 L1B Auxilary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 0

Number of products with errors:

4.6 L1B Auxiliary Correction Error Check

CryoSat L1B data includes a correction error flag (field 54) for each measurement record. The bit value of this flag indicates any problems when set.

Number of products with errors:

4.7 L1B Measurement Confidence Data Check

CryoSat L1B data includes a measurement confidence flag (field 18) for each measurement record. The bit value of this flag indicates any problems when set.

Currently, there are several common error flags raised in the Level 1B 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.

Block Degraded Flag: This flag is currently set for a number of individual records generally 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, indicating that the ADC correction application is deactivated, but this is in line with the current configuration.

Number of products with errors:

5. 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 product file (.DBL).

Number of products with errors:

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: 0

5.3 L2 Auxiliary Data File Usage Check

Each product is checked for missing Data Set Descriptors with respect to a pre-determined baseline and also to check the validity of Auxiliary Data Files is correct. Number of products with errors: 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 any problems when set.

Number of products with errors:

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.

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 CS_OFFL_SIR_LRM_2__20170123T234658_20170124T000722_C001 CS OFFL SIR LRM 2 20170124T000725 20170124T001555 C001 CS_OFFL_SIR_LRM_2__20170124T002321_20170124T002518_C001 CS OFFL SIR LRM 2 20170124T003810 20170124T011225 C001 CS_OFFL_SIR_LRM_2__20170124T012555_20170124T012910_C001 CS_OFFL_SIR_LRM_2__20170124T013033_20170124T013155_C001 CS OFFL SIR LRM 2 20170124T013437 20170124T013832 C001 CS OFFL SIR LRM 2 20170124T020139 20170124T020400 C001 CS_OFFL_SIR_LRM_2__20170124T021806_20170124T022637_C001 CS OFFL SIR LRM 2 20170124T022922 20170124T025139 C001 CS_OFFL_SIR_LRM_2__20170124T030455_20170124T031758_C001 CS_OFFL_SIR_LRM_2__20170124T031945_20170124T033220_C001 CS OFFL SIR LRM 2 20170124T035656 20170124T043027 C001 CS OFFL SIR LRM 2 20170124T044836 20170124T051935 C001 CS_OFFL_SIR_LRM_2__20170124T053851_20170124T054718_C001 CS OFFL SIR LRM 2 20170124T054847 20170124T060938 C001 CS_OFFL_SIR_LRM_2__20170124T062616_20170124T063612_C001 CS_OFFL_SIR_LRM_2_20170124T064232_20170124T065354_C001 CS_OFFL_SIR_LRM_2__20170124T072008_20170124T073217_C001 CS_OFFL_SIR_LRM_2__20170124T073357_20170124T074829_C001 CS OFFL SIR LRM 2 20170124T080731 20170124T082609 C001 CS_OFFL_SIR_LRM_2__20170124T082840_20170124T083554_C001 CS_OFFL_SIR_LRM_2__20170124T090355_20170124T092812_C001 CS OFFL SIR LRM 2 20170124T094115 20170124T100809 C001 CS OFFL SIR LRM 2 20170124T103109 20170124T103245 C001 CS OFFL SIR LRM 2 20170124T104115 20170124T110726 C001 CS OFFL SIR LRM 2 20170124T112132 20170124T113220 C001 CS_OFFL_SIR_LRM_2__20170124T121744_20170124T122411_C001 CS_OFFL_SIR_LRM_2__20170124T130042_20170124T133348_C001 CS_OFFL_SIR_LRM_2__20170124T140228_20170124T142623_C001 CS OFFL SIR LRM 2 20170124T143920 20170124T151346 C001 CS OFFL SIR LRM 2 20170124T152541 20170124T152608 C001 CS_OFFL_SIR_LRM_2__20170124T153815_20170124T160226_C001 CS_OFFL_SIR_LRM_2__20170124T161944_20170124T165030_C001 CS OFFL SIR LRM 2 20170124T170836 20170124T172717 C001 CS OFFL SIR LRM 2 20170124T172756 20170124T174109 C001 CS_OFFL_SIR_LRM_2__20170124T174954_20170124T175151_C001 CS_OFFL_SIR_LRM_2__20170124T175833_20170124T181416_C001 CS OFFL SIR LRM 2 20170124T181618 20170124T182540 C001 CS_OFFL_SIR_LRM_2__20170124T185300_20170124T190457_C001 CS OFFL SIR LRM 2 20170124T192113 20170124T192219 C001 CS_OFFL_SIR_LRM_2__20170124T192814_20170124T193117_C001 CS OFFL SIR LRM 2 20170124T193808 20170124T195246 C001 CS_OFFL_SIR_LRM_2__20170124T203114_20170124T203825_C001 CS OFFL SIR LRM 2 20170124T203948 20170124T210354 C001

Test Failed Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2)

Description There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more ecords There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records 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__20170124T210626_20170124T211452_C001 CS OFFL SIR LRM 2 20170124T211723 20170124T214314 C001 CS_OFFL_SIR_LRM_2__20170124T215237_20170124T215315_C001 CS_OFFL_SIR_LRM_2__20170124T221639_20170124T222536_C001 CS OFFL SIR LRM 2 20170124T225613 20170124T232404 C001 CS_OFFL_SIR_LRM_2__20170124T234900_20170125T000450_C001 CS OFFL SIR SIN 2 20170124T002641 20170124T002659 C001 CS OFFL SIR SIN 2 20170124T011520 20170124T011835 C001 CS_OFFL_SIR_SIN_2__20170124T012356_20170124T012516_C001 CS OFFL SIR SIN 2 20170124T025406 20170124T025726 C001 CS OFFL SIR SIN 2 20170124T030251 20170124T030416 C001 CS_OFFL_SIR_SIN_2__20170124T034052_20170124T034134_C001 CS OFFL SIR SIN 2 20170124T034325 20170124T034629 C001 CS_OFFL_SIR_SIN_2__20170124T043040_20170124T043231_C001 CS_OFFL_SIR_SIN_2__20170124T044101_20170124T044239_C001 CS OFFL SIR SIN 2 20170124T051950 20170124T052107 C001 CS_OFFL_SIR_SIN_2__20170124T052429_20170124T052528_C001 CS_OFFL_SIR_SIN_2__20170124T060945_20170124T061125_C001 CS_OFFL_SIR_SIN_2_20170124T061705_20170124T061711_C001 CS_OFFL_SIR_SIN_2__20170124T061840_20170124T062050_C001 CS_OFFL_SIR_SIN_2__20170124T065814_20170124T070115_C001 CS OFFL SIR SIN 2 20170124T070227 20170124T070442 C001 CS OFFL SIR SIN 2 20170124T074857 20170124T075043 C001 CS OFFL SIR SIN 2 20170124T075728 20170124T080422 C001 CS OFFL SIR SIN 2 20170124T092848 20170124T093122 C001 CS OFFL SIR SIN 2 20170124T093501 20170124T093507 C001 CS_OFFL_SIR_SIN_2__20170124T093830_20170124T094029_C001 CS_OFFL_SIR_SIN_2__20170124T110729_20170124T110904_C001 CS_OFFL_SIR_SIN_2__20170124T111749_20170124T111917_C001 CS OFFL SIR SIN 2 20170124T124741 20170124T124903 C001 CS_OFFL_SIR_SIN_2__20170124T125447_20170124T125520_C001 CS_OFFL_SIR_SIN_2__20170124T125649_20170124T125804_C001 CS OFFL SIR SIN 2 20170124T142704 20170124T142830 C001 CS_OFFL_SIR_SIN_2__20170124T143341_20170124T143646_C001 CS OFFL SIR SIN 2 20170124T160731 20170124T161028 C001 CS OFFL SIR SIN 2 20170124T161243 20170124T161804 C001 CS_OFFL_SIR_SIN_2__20170124T170340_20170124T170800_C001 CS OFFL SIR SIN 2 20170124T175151 20170124T175320 C001 CS OFFL SIR SIN 2 20170124T175654 20170124T175829 C001 CS_OFFL_SIR_SIN_2__20170124T184235_20170124T184347_C001 CS_OFFL_SIR_SIN_2__20170124T184524_20170124T184751_C001 CS OFFL SIR SIN 2 20170124T192220 20170124T192814 C001 CS_OFFL_SIR_SIN_2__20170124T193117_20170124T193121_C001 CS OFFL SIR SIN 2 20170124T193555 20170124T193740 C001 CS_OFFL_SIR_SIN_2__20170124T202156_20170124T202418_C001 CS_OFFL_SIR_SIN_2__20170124T210434_20170124T210626_C001 CS OFFL SIR SIN 2 20170124T211452 20170124T211657 C001 CS_OFFL_SIR_SIN_2__20170124T215536_20170124T215554_C001 CS_OFFL_SIR_SIN_2_20170124T224413_20170124T224551_C001 CS OFFL SIR SIN 2 20170124T224712 20170124T224837 C001 CS_OFFL_SIR_SIN_2_20170124T225254_20170124T225547_C001

Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error

No DEM or Slope Model was used for the location of one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records There is a height and backscatter error for Retracker 2 for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode and no DEM or Slope Model was used for one or more records An ambiguous angle was detected for SARIn mode for one or more records An ambiguous angle was detected for SARIn mode for one or more records 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	Nb. Products	Nb. QCC Reports	Nb. Valid	Nb. Warnings	Nb. Errors
SIR_LRM_1B	159	159	159	0	0
SIR_LRM_2	159	159	159	0	0
SIR_LRMI2_	159	159	159	0	0
SIR_SAR_1B	106	106	106	0	0
SIR_SAR_2	106	106	106	0	0
SIR_SARI2_	106	106	106	0	0
SIR_SIN_1B	98	98	98	0	0
SIR_SIN_2	98	98	98	0	0
SIR_SINI2	98	98	98	0	0
SIR_GDR_2	14	14	14	0	0

6.1 QCC Errors

Number of products with QCC errors:

6.2 QCC Warnings

Number of QCC reports with warnings

6.2 Missing QCC Reports

Number of products with missing QCC reports: 104

0

0