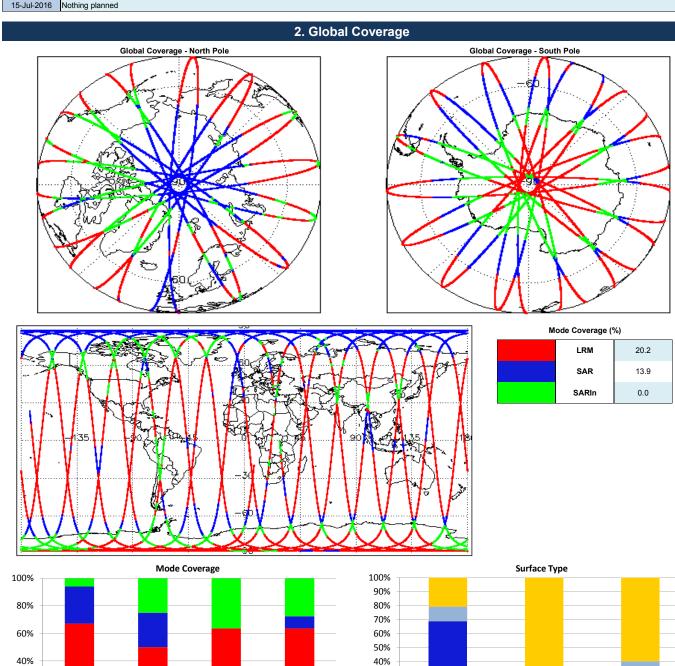


IDEAS+ Daily Report for OFFLINE data:

<u>14/07/2016</u>

1. Overview						
Report Production Date:	11-Aug-2016	Check	Status			
		Server check: science-pds.cryosat.esa.int	Nominal			
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal			
		Product Software Check	Nominal			
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal			
		Product Header Analysis	Nominal			
		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						
13-Jul-2016 None						
14-Jul-2016 None						
15 Jul 2016 Nothing planned						



30%

20% 10%

0%

LRM SAR SARIN LAND CONTINENTAL_ICE CLOSED_SEA OPEN_OCEAN

3. Instrument Configuration

SARIN

LAND

CONTINENTAL_ICE

SAR

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

CLOSED_SEA

LRM

OPEN_OCEAN

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.

CS_OFFL_SIR_LRM_2__20160714T002620_20160714T010203_C001

CS_OFFL_SIR_LRM_2__20160714T011148_20160714T011346_C001

Product

CS_OFFL_SIR_LRM_220160714T012400_20160714T014652_C001
CS_OFFL_SIR_LRM_220160714T020603_20160714T024200_C001
CS_OFFL_SIR_LRM_220160714T025403_20160714T031246_C001
CS_OFFL_SIR_LRM_220160714T031342_20160714T032713_C001
CS_OFFL_SIR_LRM_220160714T033539_20160714T033738_C001
CS_OFFL_SIR_LRM_220160714T034501_20160714T040000_C001
CS_OFFL_SIR_LRM_220160714T040202_20160714T041124_C001
CS_OFFL_SIR_LRM_220160714T043316_20160714T045042_C001
CS_OFFL_SIR_LRM_220160714T050648_20160714T050806_C001
CS_OFFL_SIR_LRM_220160714T052438_20160714T053904_C001
CS_OFFL_SIR_LRM_220160714T061700_20160714T064843_C001
CS_OFFL_SIR_LRM_220160714T065214_20160714T065428_C001
CS_OFFL_SIR_LRM_220160714T065441_20160714T070034_C001
CS_OFFL_SIR_LRM_220160714T070429_20160714T072851_C001
CS_OFFL_SIR_LRM_220160714T080100_20160714T081122_C001
CS_OFFL_SIR_LRM_220160714T081658_20160714T082730_C001
CS_OFFL_SIR_LRM_220160714T084333_20160714T090951_C001
CS_OFFL_SIR_LRM_220160714T091436_20160714T092043_C001
CS_OFFL_SIR_LRM_220160714T093429_20160714T095035_C001
CS_OFFL_SIR_LRM_220160714T095109_20160714T100545_C001
CS_OFFL_SIR_LRM_220160714T105812_20160714T110010_C001
CS_OFFL_SIR_LRM_220160714T111251_20160714T114541_C001
CS_OFFL_SIR_LRM_220160714T120305_20160714T122757_C001
CS_OFFL_SIR_LRM_220160714T122838_20160714T122957_C001
CS_OFFL_SIR_LRM_220160714T123729_20160714T123804_C001
CS_OFFL_SIR_LRM_220160714T124911_20160714T132430_C001
CS_OFFL_SIR_LRM_220160714T133245_20160714T133657_C001
CS_OFFL_SIR_LRM_220160714T134143_20160714T140728_C001
CS_OFFL_SIR_LRM_220160714T140753_20160714T141538_C001
CS_OFFL_SIR_LRM_220160714T142749_20160714T144212_C001
CS_OFFL_SIR_LRM_220160714T144653_20160714T144837_C001
CS_OFFL_SIR_LRM_220160714T144840_20160714T150352_C001
CS_OFFL_SIR_LRM_220160714T152247_20160714T153513_C001
CS_OFFL_SIR_LRM_220160714T153722_20160714T155458_C001
CS_OFFL_SIR_LRM_220160714T161644_20160714T162615_C001
CS_OFFL_SIR_LRM_220160714T162817_20160714T164246_C001
CS_OFFL_SIR_LRM_220160714T165939_20160714T170046_C001
CS_OFFL_SIR_LRM_220160714T171641_20160714T172103_C001
CS_OFFL_SIR_LRM_220160714T172226_20160714T172938_C001

Test Failed			Description
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac	Retracker 2), ker 2)		There is a height and backscatter error for Retracker 2 and no DEM or Slope Model available for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retrac Height Error (Retracker 2)	Backscatter	records There is a height and backscatter error for Retracker 2 for one or more
Error (Retrac)	records No DEM or Slope Model was used for the location of one or more records
Height Error (Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retrac Height Error (Error (Retrac	Retracker 2)	Backscatter	records There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3)	Retracker 2), Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2) Height Error ((Retracker 3)	Retracker 2), Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2) Height Error ((Retracker 3)	Retracker 2), Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
(Retracker 2) Height Error ((Retracker 3)	Retracker 2)		There is a height and backscatter error for Retracker 2 and a height error
(Retracker 2)			for Retracker 3 for one or more records
Surface Mode	el Unavailable)	No DEM or Slope Model was used for the location of one or more records
Surface Mode			No DEM or Slope Model was used for the location of one or more records
Height Error (Error (Retrac	ker 2)		There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac	ker 2)		There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter	Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter	Error	There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac		Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac	Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Error (Retrac	Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac	Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Retracker 2), Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Surface Mode)	No DEM or Slope Model was used for the location of one or more records
Height Error (Backscatter	There is a height and backscatter error for Retracker 2 for one or more
Error (Retrac Height Error (Error (Retrac	Retracker 2)	Backscatter	records There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Retracker 2), Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac	Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Error (Retrac	Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
Height Error (Error (Retrac	Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Retracker 2), Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Retracker 2), , Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Retracker 2), , Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac	Retracker 2), ker 2)		There is a height and backscatter error for Retracker 2 for one or more records
Height Error ((Retracker 3) (Retracker 2)	Backscatter		There is a height and backscatter error for Retracker 2 and a height error for Retracker 3 for one or more records
Height Error (Error (Retrac	Retracker 2)	Backscatter	There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_2_20160714T180608_20160714T182143_C001 CS OFFL SIR LRM 2 20160714T183026 20160714T183158 C001 CS_OFFL_SIR_LRM_2__20160714T183724_20160714T190141_C001 CS_OFFL_SIR_LRM_2__20160714T193608_20160714T200050_C001 CS_OFFL_SIR_LRM_2__20160714T200924_20160714T201249_C001 CS OFFL SIR LRM 2 20160714T203254 20160714T204751 C001 CS OFFL SIR LRM 2 20160714T210427 20160714T211047 C001 CS_OFFL_SIR_LRM_2__20160714T211355_20160714T214024_C001 CS OFFL SIR LRM 2 20160714T214341 20160714T214819 C001 CS OFFL SIR LRM 2 20160714T214822 20160714T215155 C001 CS_OFFL_SIR_LRM_2_20160714T215642_20160714T222935_C001 CS OFFL SIR LRM 2 20160714T224205 20160714T224445 C001 CS OFFL SIR LRM 2 20160714T225422 20160714T225542 C001 CS_OFFL_SIR_LRM_2__20160714T233547_20160714T235654_C001 CS OFFL SIR SIN 2 20160714T001251 20160714T001416 C001 CS OFFL SIR SIN 2 20160714T001927 20160714T002234 C001 CS OFFL SIR SIN 2 20160714T015330 20160714T015621 C001 CS OFFL SIR SIN 2 20160714T015829 20160714T020354 C001 CS OFFL SIR SIN 2 20160714T024922 20160714T025345 C001 CS OFFL SIR SIN 2 20160714T033304 20160714T033539 C001 CS_OFFL_SIR_SIN_2__20160714T033738_20160714T033858_C001 CS_OFFL_SIR_SIN_2__20160714T034241_20160714T034420_C001 CS OFFL SIR SIN 2 20160714T042820 20160714T042931 C001 CS_OFFL_SIR_SIN_2__20160714T043057_20160714T043316_C001 CS_OFFL_SIR_SIN_2__20160714T051013_20160714T051354_C001 CS_OFFL_SIR_SIN_2_20160714T052142_20160714T052328_C001 CS_OFFL_SIR_SIN_2__20160714T060739_20160714T060854_C001 CS_OFFL_SIR_SIN_2__20160714T061014_20160714T061202_C001 CS OFFL SIR SIN 2 20160714T065024 20160714T065214 C001 CS_OFFL_SIR_SIN_2__20160714T065429_20160714T065441_C001 CS OFFL SIR SIN 2 20160714T070035 20160714T070252 C001 CS OFFL SIR SIN 2 20160714T074234 20160714T074305 C001 CS_OFFL_SIR_SIN_2__20160714T082958_20160714T083138_C001 CS_OFFL_SIR_SIN_2__20160714T083254_20160714T083425_C001 CS_OFFL_SIR_SIN_2__20160714T083846_20160714T084137_C001 CS_OFFL_SIR_SIN_2__20160714T100956_20160714T101335_C001 CS_OFFL_SIR_SIN_2_20160714T101915_20160714T102029_C001 CS_OFFL_SIR_SIN_2__20160714T110010_20160714T110056_C001 CS_OFFL_SIR_SIN_2__20160714T114921_20160714T115239_C001 CS OFFL SIR SIN 2 20160714T115751 20160714T115917 C001 CS_OFFL_SIR_SIN_2__20160714T124009_20160714T124112_C001 CS_OFFL_SIR_SIN_2__20160714T132634_20160714T133016_C001 CS OFFL SIR SIN 2 20160714T133657 20160714T133804 C001 CS OFFL SIR SIN 2 20160714T141555 20160714T141727 C001 CS_OFFL_SIR_SIN_2__20160714T141917_20160714T142030_C001 CS OFFL SIR SIN 2 20160714T150440 20160714T150617 C001 CS_OFFL_SIR_SIN_2__20160714T151401_20160714T151547_C001 CS OFFL SIR SIN 2 20160714T155458 20160714T155945 C001 CS OFFL SIR SIN 2 20160714T164357 20160714T164542 C001 CS_OFFL_SIR_SIN_2__20160714T165106_20160714T165112_C001

Height Error (Retracker 2), Backscatter Error (Retracker 2) Surface Model Unavailable Height Error (Retracker 2), Backscatter Error (Retracker 2) Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2) urface 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) Surface Model Unavailable Surface Model Unavailable 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) SARIn X-track Angle Error SARIn X-track Angle Error, Surface Model Unavailable 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, 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

There is a height and backscatter error for Retracker 2 for one or more ecords 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 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 No DEM or Slope Model was used for the location of 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 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 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 and no DEM or Slope Model was used 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 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 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

CS_OFFL_SIR_SIN_220160714T165229_20160714T165840_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T173417_20160714T173738_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_220160714T182306_20160714T182530_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T183005_20160714T183010_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T183158_20160714T183512_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T200242_20160714T200358_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T200906_20160714T200908_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T201249_20160714T201406_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T210246_20160714T210326_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_220160714T214217_20160714T214341_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T215155_20160714T215311_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T232157_20160714T232323_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160714T232845_20160714T233153_C001	SARIn X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records