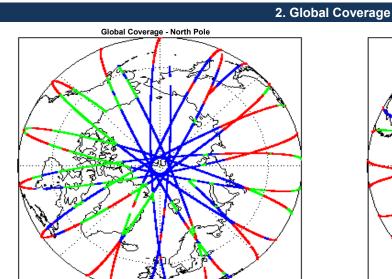


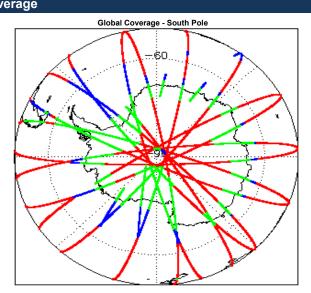
IDEAS+ Daily Report for OFFLINE data:

<u>14/01/2016</u>

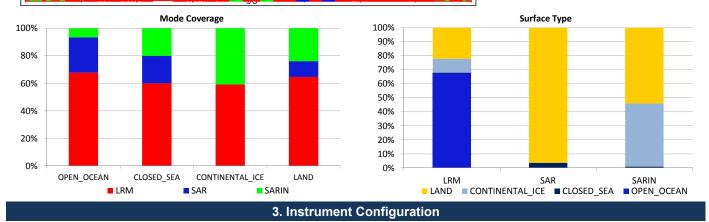
1. Overview				
Check Status				
Report Production Date:	11-Feb-2016	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CryoSat Ice Processor	Server check: calval-pds.cryosat.esa.int	Nominal	
		Product Software Check	Nominal	
	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Used:		Product Header Analysis	Nominal	
•		Star Tracker Usage Check	Nominal	
		L1B Calibration Usage Check	See Section 4.4	
		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	

Mission / Instrument News		
13-Jan-2016	None	
14-Jan-2016	None	
15-Jan-2016	SIRAL unavailability on 15-Jan-2016 from 06:28:28 to 08:14:31 due to a planned orbit manoeuvre.	





Mode Coverage (%)		
	LRM	19.7
	SAR	14.3
	SARIn	0.0



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:

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.

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Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20160114T064402_20160114T064410_C001	Complex Call from IPEDB	The Complex Cal1 correction has been taken from the IPFDB and not the Calibration products
CS_OFFL_SIR_LRM_1B_20160114T064415_20160114T070222_C001	Complex Call from IPEDB	The Complex Cal1 correction has been taken from the IPFDB and not the Calibration products

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:

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:
0

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: 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.

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.

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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	Test Failed	Description
CS_OFFL_SIR_LRM_2 201601141000553 201601141001252 C001		There is a height and backscatter error for Retracker 2 for one or more records

CS_OFFL_SIR_LRM_2_20160114T001734_20160114T003507_C001 CS OFFL SIR LRM 2 20160114T005218 20160114T010549 C001 CS_OFFL_SIR_LRM_2__20160114T010803_20160114T011954_C001 CS OFFL SIR LRM 2 20160114T014731 20160114T015753 C001 CS_OFFL_SIR_LRM_2_20160114T015933_20160114T021401_C001 CS_OFFL_SIR_LRM_2__20160114T023459_20160114T024244_C001 CS_OFFL_SIR_LRM_2__20160114T024652_20160114T025141_C001 CS_OFFL_SIR_LRM_2__20160114T025424_20160114T030011_C001 CS_OFFL_SIR_LRM_2__20160114T033025_20160114T035330_C001 CS OFFL SIR LRM 2 20160114T040653 20160114T043534 C001 CS_OFFL_SIR_LRM_2__20160114T045631_20160114T045719_C001 CS_OFFL_SIR_LRM_2__20160114T050724_20160114T050839_C001 CS OFFL SIR LRM 2 20160114T050844 20160114T053258 C001 CS_OFFL_SIR_LRM_2__20160114T053958_20160114T054325_C001 CS_OFFL_SIR_LRM_2__20160114T054657_20160114T061953_C001 CS_OFFL_SIR_LRM_2__20160114T064402_20160114T064410_C001 CS OFFL SIR LRM 2 20160114T064415 20160114T070222 C001 CS_OFFL_SIR_LRM_2__20160114T081313_20160114T081402_C001 CS_OFFL_SIR_LRM_2__20160114T100318_20160114T101625_C001 CS OFFL SIR LRM 2 20160114T101810 20160114T102939 C001 CS_OFFL_SIR_LRM_2__20160114T103550_20160114T103819_C001 CS_OFFL_SIR_LRM_2__20160114T104459_20160114T110235_C001 CS_OFFL_SIR_LRM_2__20160114T111354_20160114T111733_C001 CS_OFFL_SIR_LRM_2__20160114T113403_20160114T115328_C001 CS_OFFL_SIR_LRM_2__20160114T115331_20160114T120603_C001 CS_OFFL_SIR_LRM_2__20160114T121531_20160114T121727_C001 CS_OFFL_SIR_LRM_2__20160114T122355_20160114T123950_C001 CS_OFFL_SIR_LRM_2__20160114T124153_20160114T125218_C001 CS OFFL SIR LRM 2 20160114T131805 20160114T133032 C001 CS OFFL SIR LRM 2 20160114T135402 20160114T135646 C001 CS OFFL SIR LRM 2 20160114T140337 20160114T141816 C001 CS OFFL SIR LRM 2 20160114T141956 20160114T142239 C001 CS_OFFL_SIR_LRM_2__20160114T145649_20160114T150237_C001 CS_OFFL_SIR_LRM_2__20160114T150521_20160114T152927_C001 CS_OFFL_SIR_LRM_2__20160114T153159_20160114T154037_C001 CS OFFL SIR LRM 2 20160114T154300 20160114T160208 C001 CS_OFFL_SIR_LRM_2__20160114T160221_20160114T160429_C001 CS OFFL SIR LRM 2 20160114T161809 20160114T161852 C001 CS_OFFL_SIR_LRM_2__20160114T163956_20160114T170750_C001 CS_OFFL_SIR_LRM_2__20160114T172139_20160114T174816_C001 CS OFFL SIR LRM 2 20160114T181511 20160114T184657 C001 CS_OFFL_SIR_LRM_2__20160114T190053_20160114T190654_C001 CS_OFFL_SIR_LRM_2__20160114T191106_20160114T191737_C001 CS_OFFL_SIR_LRM_2__20160114T193814_20160114T193901_C001 CS OFFL SIR LRM 2 20160114T195203 20160114T202638 C001 CS_OFFL_SIR_LRM_2__20160114T203939_20160114T204231_C001

(Retracker 2)

Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) ecords Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records The Calibration correction is missing or has been taken from the IPFDB Calibration Warning instead of the Calibration products for one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2; a height error for (Retracker 3), Backscatter Error Retracker 3 and a Calibration Warning for one or more records (Retracker 2), Calibration Warning Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) ecords Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 (Retracker 2) ecords Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error for Retracker 3 for one or more records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Surface Model Unavailable No DEM or Slope Model was used for the location of one or more records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Backscatter There is a height and backscatter error for Retracker 2 for one or more Error (Retracker 2) records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter Error (Retracker 2) for Retracker 3 for one or more records Height Error (Retracker 2), Height Error There is a height and backscatter error for Retracker 2 and a height error (Retracker 3), Backscatter 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 (Retracker 2) records

CS_OFFL_SIR_LRM_2__20160114T204259_20160114T210801_C001 CS OFFL SIR LRM 2 20160114T213119 20160114T214038 C001 CS_OFFL_SIR_LRM_2__20160114T214236_20160114T215915_C001 CS_OFFL_SIR_LRM_2__20160114T215926_20160114T220512_C001 CS OFFL SIR LRM 2 20160114T221850 20160114T225516 C001 CS_OFFL_SIR_LRM_2__20160114T231315_20160114T233650_C001 CS_OFFL_SIR_LRM_2__20160114T233652_20160114T234440_C001 CS OFFL SIR SIN 2 20160114T003519 20160114T003656 C001 CS OFFL SIR SIN 2 20160114T004243 20160114T004246 C001 CS OFFL SIR SIN 2 20160114T004422 20160114T004624 C001 CS_OFFL_SIR_SIN_2__20160114T012801_20160114T013017_C001 CS_OFFL_SIR_SIN_2__20160114T021433_20160114T021620_C001 CS_OFFL_SIR_SIN_2__20160114T022140_20160114T022146_C001 CS OFFL SIR SIN 2 20160114T022301 20160114T022955 C001 CS_OFFL_SIR_SIN_2__20160114T035339_20160114T035652_C001 CS OFFL SIR SIN 2 20160114T040038 20160114T040044 C001 CS_OFFL_SIR_SIN_2__20160114T040346_20160114T040558_C001 CS_OFFL_SIR_SIN_2__20160114T053304_20160114T053434_C001 CS OFFL SIR SIN 2 20160114T054325 20160114T054448 C001 CS_OFFL_SIR_SIN_2__20160114T063149_20160114T063225_C001 CS_OFFL_SIR_SIN_2_20160114T071310_20160114T071434_C001 CS_OFFL_SIR_SIN_2__20160114T072228_20160114T072341_C001 CS OFFL SIR SIN 2 20160114T085239 20160114T085405 C001 CS OFFL SIR SIN 2 20160114T085918 20160114T090219 C001 CS OFFL SIR SIN 2 20160114T103245 20160114T103549 C001 CS_OFFL_SIR_SIN_2__20160114T103819_20160114T104332_C001 CS OFFL SIR SIN 2 20160114T112919 20160114T113312 C001 CS OFFL SIR SIN 2 20160114T121257 20160114T121531 C001 CS_OFFL_SIR_SIN_2__20160114T121727_20160114T121922_C001 CS OFFL SIR SIN 2 20160114T122231 20160114T122355 C001 CS_OFFL_SIR_SIN_2__20160114T130805_20160114T130922_C001 CS_OFFL_SIR_SIN_2__20160114T131127_20160114T131409_C001 CS OFFL SIR SIN 2 20160114T134756 20160114T135402 C001 CS_OFFL_SIR_SIN_2__20160114T135646_20160114T135702_C001 CS_OFFL_SIR_SIN_2_20160114T140131_20160114T140312_C001 CS OFFL SIR SIN 2 20160114T144732 20160114T144948 C001 CS OFFL SIR SIN 2 20160114T145037 20160114T145306 C001 CS_OFFL_SIR_SIN_2__20160114T153015_20160114T153158_C001 CS_OFFL_SIR_SIN_2__20160114T154037_20160114T154217_C001 CS_OFFL_SIR_SIN_2__20160114T162657_20160114T163142_C001 CS OFFL SIR SIN 2 20160114T170952 20160114T171126 C001 CS_OFFL_SIR_SIN_2__20160114T171257_20160114T171413_C001 CS_OFFL_SIR_SIN_2__20160114T171832_20160114T172114_C001 CS_OFFL_SIR_SIN_2__20160114T184936_20160114T185325_C001 CS_OFFL_SIR_SIN_2__20160114T185912_20160114T190031_C001 CS_OFFL_SIR_SIN_2__20160114T194005_20160114T194049_C001 CS OFFL SIR SIN 2 20160114T202916 20160114T203230 C001 CS_OFFL_SIR_SIN_2__20160114T203743_20160114T203900_C001 CS_OFFL_SIR_SIN_2__20160114T220632_20160114T221047_C001 CS OFFL SIR SIN 2 20160114T221648 20160114T221801 C001

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) 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, Surface Model Unavailable SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error SARIn X-track Angle Error 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 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 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 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 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 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

CS_OFFL_SIR_SIN_220160114T225557_20160114T225756_C001	SARID X-TRACK ADDIE ETFOR	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160114T225858_20160114T230021_C001	SARIN X-track Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160114T234440_20160114T234605_C001	SARIN X-frack Angle Error	An ambiguous angle was detected for SARIn mode for one or more records
CS_OFFL_SIR_SIN_220160114T235406_20160114T235552_C001	SARIN X-frack Angle Error	An ambiguous angle was detected for SARIn mode for one or more records