

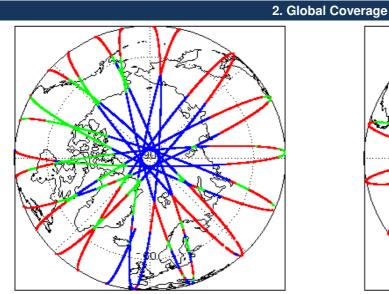
QA4EO Daily Report for OFFLINE data:

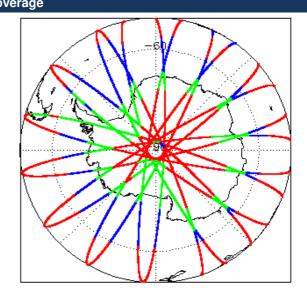
<u>09/08/2020</u>

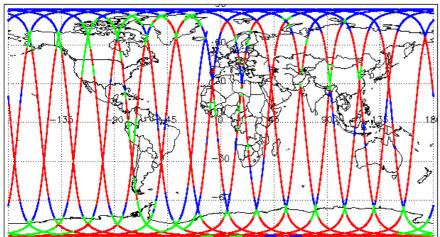
Report Production Data	08 Son 2020	Check	Status	
Report Production Date:	08-Sep-2020	Server check: science-pds.cryosat.esa.int	Nominal	
Processor Used:	CriveSat las Brassasar	Server check: calval-pds.cryosat.esa.int	Nominal	
Processor used.	CryoSat Ice Processor	Product Software Check	Nominal	
Data Used:	L1B and L2 OFFLINE Data	Product Format Check	Nominal	
Data Osec.	LIB and L2 OFFLINE Data	Product Header Analysis	Nominal	
		Star Tracker Usage Check	Nominal	
		L1B Tracking Flag Check	See Section 4.4	
		L1B Calibration Usage Check	See Section 4.5	
		L1B & L2 Auxiliary Data File Usage Check	Nominal	
		L1B & L2 Auxiliary Correction Error Check	Nominal	
		L1B & L2 Measurement Confidence Data Check	See Section 4.8 and 5.5	
		QCC Errors/ Warnings	See Section 6.1, 6.2 and 6.3	

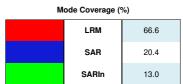
1. Overview

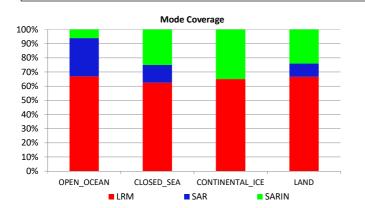
Mission / Instru	Aission / Instrument News						
08-Aug-2020	None						
09-Aug-2020	None						
10-Aug-2020	Nothing planned						

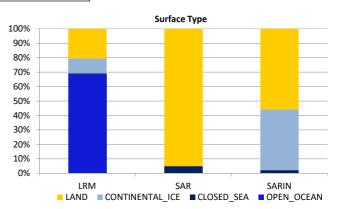












3. Instrument Configuration

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

SIRAL instrument(s) in use:

SIRAL - A

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:

4.3 Star Tracker Usage Check

Each product is checked in order to ensure a valid star tracker file has been used in processing. 0

Number of products with errors:

4.4 L1B Tracking Flags Check

CryoSat L1B data includes a tracking flag for each measurement record. The bit value of this flag indicates any problems when set.

Loss of Echo Flag: This flag is currently set for some products over land, but this is to be expected.

91

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200809T004218_20200809T004410_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T005158_20200809T010306_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T010323_20200809T010639_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T010644_20200809T010831_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T011313_20200809T012215_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T012217_20200809T012733_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T015927_20200809T021346_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T022114_20200809T022322_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T023055_20200809T024236_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T024317_20200809T024537_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T024738_20200809T025659_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T025847_20200809T030716_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T032040_20200809T033449_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T033454_20200809T033500_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T033505_20200809T033627_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T034142_20200809T034142_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T043316_20200809T043411_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T043759_20200809T043837_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T043925_20200809T044111_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T044113_20200809T044619_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T045906_20200809T050719_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T050824_20200809T053431_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T054048_20200809T054554_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T061643_20200809T062504_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T064554_20200809T071300_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T072929_20200809T075638_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T075729_20200809T075954_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T080028_20200809T080722_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T091530_20200809T091859_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T092022_20200809T092509_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T092527_20200809T093027_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T093645_20200809T093656_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T093659_20200809T093746_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T093807_20200809T093929_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T094154_20200809T094208_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T110840_20200809T111226_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T111229_20200809T111309_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T111417_20200809T111508_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T113503_20200809T121007_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T131320_20200809T132804_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200809T133246_20200809T133344_D001	Loss of echo	The tracking echo is missing for one or more records

CPU_FFR_BU_NU_F_R_2000001110304_0000001114000_00000114000_00000114000_0000000114000_0000000114000_000000114000_000000114000_0000000114000_00000000			
CG_0FH_SH_MLR_2000000000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20200809T133346_20200809T133357_D001	Loss of echo	The tracking echo is missing for one or more records
GG GFL_SPL_UM_18_2000000T14289_2000000T14000_D001 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14582_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000T14000_D0000 Los of ebo The tracking each is making for one or none exacts GG_GFL_SPL_UM_18_2000000T14000_200000	CS_OFFL_SIR_LRM_1B_20200809T140730_20200809T141958_D001	Loss of echo	The tracking echo is missing for one or more records
Circl, Schu, Shu, Jia, 2003091114229, 2003091114229, 2003091114259, 2003091114259, 2003091114559, 2003091114559, 2003091114559, 20030911455	CS_OFFL_SIR_LRM_1B_20200809T142000_20200809T142105_D001	Loss of echo	The tracking echo is missing for one or more records
GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instanting core is missing for one or main exceeds GS_0FH_SRL [R4]. Instantis core is missing for one or	CS_OFFL_SIR_LRM_1B_20200809T142439_20200809T144006_D001	Loss of echo	The tracking echo is missing for one or more records
CS OFTL_SR_LINU_10_2020007116042_202008071150120_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116042_20200807116030_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116042_20200807116030_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116042_20200807116030_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116042_20200807116030_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116042_20200807116300_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116302_20200807116302_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116302_20200807116302_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116302_20200807116302_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_2020007116302_20200807116302_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_20200807116302_D001 Loss of acto The tracking acto is missing for one or more records CS OFTL_SR_LINU_10_20200807116302_D001 Loss of acto The tracking acto is missing for one or more records <	CS_OFFL_SIR_LRM_1B_20200809T145228_20200809T145737_D001	Loss of echo	The tracking echo is missing for one or more records
CS_CFI_SIL_IRU_ID_20000097116462_0000009716468_D001 Loss of ebs The tracking ebs is miscry for one or more roods CS_CFI_SIL_URU_ID_20000097116462_000009716468_D001 Loss of ebs The tracking ebs is miscry for one or more roods CS_CFI_SIL_URU_ID_20000097116462_000009716464_D001 Loss of ebs The tracking ebs is miscry for one or more roods CS_CFI_SIL_URU_ID_2000097116462_00009716569_D001 Loss of ebs The tracking ebs is miscry for one or more roods CS_CFI_SIL_URU_ID_2000097116694_2000097116694_D001 Loss of ebs The tracking ebs is miscry for one or more roods CS_CFI_SIL_URU_ID_2000097116694_2000097116694_D001 Loss of ebs The tracking ebs is miscry for one or more roods CS_CFI_SIL_URU_ID_2000097116694_2000097116694_D001 Loss of ebs The tracking ebs is miscry for one more roods CS_CFI_SIL_URU_ID_2000097116694_2000097116694_D001 Loss of ebs The tracking ebs is miscry for one more roods CS_CFI_SIL_URU_ID_2000097116694_2000097116932_D001 Loss of ebs The tracking ebs is miscry for one rome roods CS_CFI_SIL_URU_ID_2000097116994_2000097116932_D001 Loss of ebs The tracking ebs is miscry for one rome roods CS_CFI_SIL_URU_ID_2000097116994_2000097116932_D001 Loss of ebs The tracking ebs is miscry for one rome roods CS_CFI_SIL_URU_ID_2000097116994_2000097116932_D001 Loss of ebs The tracking ebs is miscry for one rome roods CS_CFI_SIL_URU_ID_2000097116994_2000097116932_D001	CS_OFFL_SIR_LRM_1B_20200809T145743_20200809T150005_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LRA_R_SR_LRA_R_SS_D000000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20200809T150245_20200809T151306_D001	Loss of echo	The tracking echo is missing for one or more records
DS. OFFL.SRL.INU.1B.2000000716594.20200007161582.0001 Loss of echo The tracking echo is missing for one or more records DS. OFFL.SRL.INU.1B.200000716592.2020000716578.0001 Loss of echo The tracking echo is missing for one or more records DS. OFFL.SRL.INU.1B.2000000716578.20200000716578.0001 Loss of echo The tracking echo is missing for one or more records DS. OFFL.SRL.INU.1B.2000000716578.20200000716578.20200000716578.20200000716578.2020000716578.2020000716578.2020000716578.2020000716578.2020000716578.2020000071758.2020000071758.2020000071758.20200007	CS_OFFL_SIR_LRM_1B_20200809T154957_20200809T155814_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFF_SR_LBR_IR_ST_20000007116164_20000007161092_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_SR_LRA_IR_2000000716303_2000000716303_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000716303_2000000716303_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000716303_2000000716303_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000716303_2000000716303_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_20000000716303_2000000716303_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000716303_20000007164303_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000717503_2000000717503_20001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000717503_2000000717503_2000000717503_0001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000717503_2000000717503_2000000717503_2000000717503_001 Loss of exho The inciding cohe instains for one or more records CS_OFF_ST_ST_LRA_IR_2000000717503_2000000717503_20000000717503_2000000717503_200000071161163_20000007116116	CS_OFFL_SIR_LRM_1B_20200809T160210_20200809T160658_D001	Loss of echo	The tracking echo is missing for one or more records
DS. OFFL.SRLEM. 18.2000807163542.202080716359.2001 Loss of echo The tracking ocho is means for one or more records DS. OFFL.SRLEM. 18.200080716358.2020808716358.2001 Loss of echo The tracking ocho is means for one or more records DS. OFFL.SRLEM. 18.200080716358.2020808716358.2001 Loss of echo The tracking ocho is means for one or more records DS. OFFL.SRLEM. 18.200080716358.2020808716359.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808716359.2020808716359.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808716359.2020808716359.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808716359.2020808716359.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808717550.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808717550.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808717550.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808717550.2001 Loss of echo The tracking echo is means for one or more records DS. OFFL.SRLEM. 18.200808717550.2001	CS_OFFL_SIR_LRM_1B_20200809T160942_20200809T161528_D001	Loss of echo	The tracking echo is missing for one or more records
GS OFFL_SIR_LEM_16_20200007163513_20200007163514_20200007163540_0001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_16_20200007163562_0001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_16_20200007163562_0001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_16_20200007163562_00001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_202000007163562_000001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_202000007163562_000001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_20200000175362_00001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_20200000175362_000001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_20200000175362_000001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_20200000175362_00001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_202000001716322_000001 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_20000001716322_00001	CS_OFFL_SIR_LRM_1B_20200809T161644_20200809T161904_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFSIR_LAM_IB_202080071163714_202080071163849_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFSIR_LAM_IB_202080071163812_202008071163822_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFSIR_LAM_IB_202080071163812_202008071163822_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFSIR_LAM_IB_202080071163812_20200807116382_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFSIR_LAM_IB_20208007116382_02000807116382_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFSIR_LAM_IB_20208007117020_20208097117532_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LAM_IB_2020800717282_20208097117532_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LAM_IB_2020800717322_20208097117532_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LAM_IB_202080717322_20208097117532_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LAM_IB_202080717322_20208097117532_001 Loss of echo The tracking echo is missing for one or more records CS_OFF_SIR_LAM_IB_2020807173232_20208097116325_0001 Loss of echo The tracking echo is missing for	CS_OFFL_SIR_LRM_1B_20200809T163042_20200809T163509_D001	Loss of echo	The tracking echo is missing for one or more records
GS_OFF_SIR_LEM_18Exactle detailThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807163822020080716382Loss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807163822020080716382Loss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807163822020080716382Loss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_18202008071648220200807176382DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_182020080717128220200807176382DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_182020080717782820200807177828DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_182020080717782820200807177828DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807177828DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807177828DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807178428DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807178482DOIILoss of echoThe tracking echo is missing for one or more recordsGS_OFF_SIR_LEM_1820200807178482DOIILoss of echoThe tracking echo is missing f	CS_OFFL_SIR_LRM_1B_20200809T163513_20200809T163708_D001	Loss of echo	The tracking echo is missing for one or more records
GS. OFFL_SIR_LEM. 18_20200807116382_20001 Loss of echo The tracking echo is missing for one or more records GS. OFFL_SIR_LEM. 18_20200807116382_20001 Loss of echo The tracking echo is missing for one or more records GS. OFFL_SIR_LEM. 18_20200807116382_20001 Loss of echo The tracking echo is missing for one or more records GS. OFFL_SIR_LEM. 18_20200807116382_200001 Loss of echo The tracking echo is missing for one or more records GS. OFFL_SIR_LEM. 18_202008071171209_202008071171532_D001 Loss of echo The tracking echo is missing for one or more records GS. OFFL_SIR_LEM. 18_20200807171209_20200807171532_D001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LEM. 18_20200807171320_200001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LEM. 18_202008071181542_20001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LEM. 18_20200807118154_20001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LEM. 18_20200807118154_20001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LEM. 18_20200807118154_20001 Loss of echo The tracking echo is missing for one or more records CS. OFFL_SIR_LEM. 18_20200807118	CS_OFFL_SIR_LRM_1B_20200809T163714_20200809T163839_D001	Loss of echo	The tracking echo is missing for one or more records
GS_OFFL_SIR_LEM_18_202000071163819_202000071163822_D0011 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_20200007163829_202008007163829_D0010 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_20200007173829_202008007163829_D0010 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_202000071773829_2000007173532_D0011 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_2020000071773829_2000007175325_D0011 Loss of echo The tracking echo is missing for one or more records GS_OFFL_SIR_LEM_18_202000001775327_200000000000000000000000000000000000	CS_OFFL_SIR_LRM_1B_20200809T163841_20200809T163849_D001	Loss of echo	The tracking echo is missing for one or more records
GS_OFFL_SIR_LAM_1B_20200007163825_20200007163827_0001 Loss of exho The tracking exho is missing for one or more records GS_OFFL_SIR_LAM_1B_202000007164409_202000007164409_0001 Loss of exho The tracking exho is missing for one or more records GS_OFFL_SIR_LAM_1B_202000007164409_202000007171638_D001 Loss of exho The tracking exho is missing for one or more records GS_OFFL_SIR_LAM_1B_20200000717508_2000000717508_D001 Loss of exho The tracking exho is missing for one or more records GS_OFFL_SIR_LAM_1B_20200000717538_2000000717538_D001 Loss of exho The tracking exho is missing for one or more records GS_OFFL_SIR_LAM_1B_20200000717538_2000000717538_D001 Loss of exho The tracking exho is missing for one or more records GS_OFFL_SIR_LAM_1B_202000007181542_20000007181542_D001 Loss of exho The tracking exho is missing for one or more records GS_OFFL_SIR_LAM_1B_202000007181642_20000007181642_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_1B_20200000718422_2000000718452_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_1B_202000007184552_2000007164552_D001 Loss of exho The tracking exho is missing for one or more records CS_OFFL_SIR_LAM_1B_202000007184552_D001 Loss of exho The tracking exho is missing for one or more records CS_	CS_OFFL_SIR_LRM_1B_20200809T163852_20200809T163902_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200007163362,20200007164007_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007171209_202000007171503_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007171209_202000007175032_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007175032_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000717522_2000007175027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000717522_2000007175027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000717522_2000007175027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202000071191639_202000071191640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000711941642_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007194618_2020000719562_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007194618_20200007195652_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007194562_20200007195657_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007195652_20200007155657_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007120552_20200007120552_D001Loss of e	CS_OFFL_SIR_LRM_1B_20200809T163919_20200809T163922_D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SIR_LRM_1B_20200007163362,20200007164007_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007171209_202000007171503_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007171209_202000007175032_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007175032_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000717522_2000007175027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000717522_2000007175027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000717522_2000007175027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202000071191639_202000071191640_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020000711941642_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007194618_2020000719562_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007194618_20200007195652_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007194562_20200007195657_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007195652_20200007155657_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200007120552_20200007120552_D001Loss of e	CS OFFL SIR LRM 1B 20200809T163925 20200809T163927 D001	Loss of echo	The tracking echo is missing for one or more records
CS, OFFL_SIN_LRM_18_20200091171232_20200891171533_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_2020009117232_2020089117533_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_2020089117533_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_2020089117532_2020089117532_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_2020089118134_2020089118135_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_2020089118134_20200891181342_D0001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_20200891181452_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_2020089118452_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_20200891198552_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_20200891198552_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_20200891198552_D001 Loss of echo The tracking echo is missing for one or more records CS, OFFL_SIN_LRM_18_20200891198555_20200891195552_D001 Loss of	CS OFFL SIR LRM 1B 20200809T163929 20200809T164007 D001	Loss of echo	The tracking echo is missing for one or more records
GS, OFFL, SRL, LRM, 1B, 20200697172321, 202006097175332, 2001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 20200097175332, 200006097175332, 2001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 202000971175327, 202008097175332, 2001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 2020009711715327, 2020080971715337, 2001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 2020080971181542, 2020080971814250, 2001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 202008097181452, 2020080971814527, D001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 2020080971918452, 202008097198547, D001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 202008097198557, 202008097195857, D001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 202008097195857, 202008097195857, D001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 202008097195852, 202008097195857, D001 Loss of echo The tracking echo is missing for one or more records GS, OFFL, SIR, LRM, 1B, 20200	CS OFFL SIR LRM 1B 20200809T164409 20200809T164439 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_1B_20200091172321_20200091175052_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200091175325_202008091175322_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202000911175325_202008091175325_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202000901111542_202008091181235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202000901181542_202008091181235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202008091181542_202008091181235_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202008091194162_202008091184627_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202008091194582_202008091195820_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202008091195852_02008091195857_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202008091195852_02008091195857_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_202008091195852_02008091195857_D001 Loss of echo The tra	CS OFFL SIR LRM 1B 20200809T171209 20200809T171553 D001	Loss of echo	The tracking echo is missing for one or more records
CS_OFFL_SR_LRM_1B_202008091175326_202008091175322_0011 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091175327_202008091175325_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091181542_202008091181635_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091181542_202008091181432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091181552_202008091181432_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091181552_202008091194522_00208091194522_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091194582_00208091195832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091195832_00208091195832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091195832_02008091195832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091195832_02008091195832_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SR_LRM_1B_202008091195832_202008091195832_D001 Loss of echo The tracking echo is missing for one or more records <td>CS OFFL SIR LRM 1B 20200809T172321 20200809T175053 D001</td> <td>Loss of echo</td> <td></td>	CS OFFL SIR LRM 1B 20200809T172321 20200809T175053 D001	Loss of echo	
CS, OFFL_SIR_LRM_IB_20200809T175325_20200809T175325_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T18135_200001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T181359_20200809T181450_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T181452_20200809T181452_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T181452_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T184225_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T198585_20200809T198585_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T198585_20200809T198585_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T198585_20200809T195855_0001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T198585_20200809T20555_20001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_IB_20200809T20355_20200809T20355_20200809T20355_20200809T213562_0001 Loss of echo The tracking e			The tracking echo is missing for one or more records
CS, OFFL_SIR_LRM_18_2020809T175327_2020809T175337_D001Loss of echoThe tracking echo is missing for one or more recordsCS, OFFL_SIR_LRM_18_2020809T181154_20200809T181155_20200809T181450_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T181452_20200809T181450_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T1814252_20200809T184252_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T184252_2020809T19552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T19555_20200809T195852_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T195853_20200809T195853_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T195853_20200809T195853_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T195853_20200809T195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T20552_20200809T20552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T20552_20200809T20552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T21355_20200809T21356_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020809T213454_20200809T21346_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2			
CS_OFFL_SIR_LRM_18_20200809T181154_20200080T181359_20200809T181450_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T181452_20200809T181450_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T18228_20200809T18427_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T194282_20200809T194282_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T194581_20200809T194581_20200809T195832_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T195832_20200809T195837_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T195832_20200809T195837_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T195852_20200809T20552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T195852_20200809T20152_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T20552_2001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T20552_2001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T20352_20200809T21372_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T21334_20200809T213362_0001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_2020			
CS_OFFL_SIR_LRM_1B_20200809T181459_20200809T181450_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T181452_20200809T181452_20200809T184627_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195236_20200809T195522_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195555_20200809T195552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195555_20200809T195555_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195555_20200809T195555_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195552_20200809T195555_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195552_20200809T201552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195552_20200809T201527_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T200552_20200809T2013246_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213034_20200809T213034_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213034_20200809T213034_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213034_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LR			
CS_OFFL_SIR_LFM_1B_202008097181842_202008097181847_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097192352_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097195552_202008097195552_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097195552_202008097195852_20001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097195852_202008097195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097195852_202008097195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097195852_202008097195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097195852_202008097120552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097120555_202008097202953_202008097203746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097121303_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097121303_202008097121303_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097121303_202008097121303_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097121303_202008097121303_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LFM_1B_202008097			
CS_OFFL_SIR_LRM_1B_20200809T184236_20200809T184627_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195555_20200809T195552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195532_0200809T195537_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195532_0200809T195537_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195532_0200809T195557_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195552_0200809T200552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T20555_0200809T200552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T20555_0200809T201727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T20552_0200809T211677_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T21302_20200809T21302_D0010Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213624_0200809T213628_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213640_20200809T213628_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214039_20200809T21403Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T21403			
CS_OFFL_SIR_LRM_1B_20200809T194582_20001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195555_20200809T195801_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195803_20200809T195837_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195852_2000809T195855_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195852_2000809T195857_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T200555_20001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T200555_20200809T20772_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T202953_20200809T20772_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T202953_20200809T21450_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213002_2020809T21302_2020809T21305_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T21302_2020809T21302_2020809T21302_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214642_0200809T214502_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214502_0200809T214502_D001Less of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T2			
LCS_OFFL_SIR_LRM_16_20200809T19555_20200809T195801_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_16_20200809T19583_20200809T195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T195852_0200809T195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T195852_0200809T200552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T200555_20200809T20727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T20355_20200809T2073746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T210324_20200809T211807_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T210324_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T213034_20200809T213349_20200809T213349_20200809T213349_20200809T21342Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T21432_0200809T21437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T21432_0200809T21432_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T21432_0200809T21437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T21432_0200809T214501_D001Loss of echoThe tracking echo is missing for one or more records<			
CS_OFFL_SIR_LRM_1B_20200809T195803_20200809T195837_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195852_20200809T195852_20200809T195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T195852_20200809T195852_20200809T20555_20200809T20555_20200809T20555_20200809T20555_20200809T20555_20200809T201727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T202555_20200809T203746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T202553_20200809T21507_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213042_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213042_20200809T213042_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214032_20200809T214372_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214032_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T215027_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T21527_D001Loss of echo			5 0
CS_OFFL_SIR_LAM_1B_202008091195839_20208091195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202008091195852_202008091195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202008091195859_202008091200552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202008091200555_202008091201727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809120253_202008091201727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809120434_202008091211507_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809121302_202008091213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809121349_202008091213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809121402_202008091214137_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809121402_202008091214137_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202008091214647_20200809121502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202008091214647_20200809121527_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202008091214623_20200809121527_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_202008			
CS_OFFL_SIR_LRM_18_20200809T195852_20200809T195857_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T200555_20200809T201727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T202553_20200809T203746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T203934_20200809T203746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T20334_20200809T21507_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T21302_20200809T21308_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T21304_20200809T213282_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T213640_20200809T213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T214039_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T214039_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T214039_20200809T21501_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_18_20			
CS_OFFL_SIR_LRM_1B_20200809T195859_20200809T200552_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T202953_20200809T201727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T202953_20200809T203746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T20334_20200809T211507_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213002_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213349_20200809T21336_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213349_20200809T213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T21437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T21437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T21437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T21502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T22570_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T23180_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2020			
CS_OFFL_SIR_LRM_1B_20200809T200555_20200809T201727_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T202953_20200809T203746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T204334_20200809T211507_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213002_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213349_20200809T213628_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213640_20200809T213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214309_20200809T214372_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T21420_20200809T214372_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T214372_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T21447_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T21503_20200809T21527_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T24535_20200809T231633_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_2			
CS_OFFL_SIR_LRM_1B_20200809T203953_20200809T203746_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T204334_20200809T211507_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213002_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213349_20200809T21362B_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213640_20200809T21362B_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213640_20200809T214372_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214303_20200809T21437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214302_0200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T21527_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231803_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T23193180_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231941_20200809T231941_20200809T231941_20200809T231941_20200809T231941_20200809T231941_20200809T231941_20200809T231941_20200809			
CS_OFFL_SIR_LRM_1B_20200809T204334_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213002_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213349_20200809T213628_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213640_20200809T213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214309_20200809T214037_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214302_0200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_2020809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T215001_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T24535_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231823_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231941_20200809T231940_D001Loss of echoThe tracking echo is missing for one or more recordsCS			
CS_OFFL_SIR_LRM_1B_20200809T213002_20200809T213036_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213349_20200809T213628_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213640_20200809T213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214039_20200809T214137_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T21501_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T21527_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T21527_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231823_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231931_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B			
CS_OFFL_SIR_LRM_1B_20200809T213349_20200809T213628_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T213640_20200809T213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214039_20200809T21437_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T215001_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231940_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231940_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_			
CS_OFFL_SIR_LRM_1B_20200809T213640_20200809T213724_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214039_20200809T214137_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T215001_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231940_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231940_D001Loss of echoThe tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T214039_20200809T214137_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214320_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T215001_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231841_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T231941_20200809T232409_D001Loss of echoThe tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T214320_20200809T214502_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T214647_20200809T215001_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231931850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T232409_D001Loss of echoThe tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T214647_20200809T215001_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T232409_D001Loss of echoThe tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T215032_20200809T215227_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231841_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T232409_D001Loss of echoThe tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T224535_20200809T225709_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231950_20200809T231938_D001Loss of echoThe tracking echo is missing for one or more recordsCS_OFFL_SIR_LRM_1B_20200809T231941_20200809T232409_D001Loss of echoThe tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T231623_20200809T231803_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200809T231941_20200809T232409_D001 Loss of echo The tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T231850_20200809T231938_D001 Loss of echo The tracking echo is missing for one or more records CS_OFFL_SIR_LRM_1B_20200809T231941_20200809T232409_D001 Loss of echo The tracking echo is missing for one or more records			
CS_OFFL_SIR_LRM_1B_20200809T231941_20200809T232409_D001 Loss of echo The tracking echo is missing for one or more records			
US_UFFL_SIH_LKM_1B_20/2008091232532_20/2008091233143_D001 Loss of echo The tracking echo is missing for one or more records			
	US_UFFL_SIK_LKM_IB_202008091232532_202008091233143_D001	LOSS OT ECHO	The tracking ecno is missing for one or more records

4.5 L1B Calibration Usage Check

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

2

Number of products with errors:

Product	Test Failed	Description
CS_OFFL_SIR_SIN_1B_20200809T135756_20200809T135759_D001	Cal1 correction missing	The Cal1 correction has not been applied
CS_OFFL_SIR_SIN_1B_20200809T153711_20200809T153714_D001	Cal1 correction missing	The Cal1 correction has not been applied

4.6 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

4.7 L1B Auxiliary Correction Error Check

Number of products with errors:

4.8 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.

2

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.

Product	Test Failed	Description
CS_OFFL_SIR_LRM_1B_20200809T015927_20200809T021346_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo
CS_OFFL_SIR_LRM_1B_20200809T163513_20200809T163708_D001		The tracking echo has returned an error and the Rx1 Echo Error flag is set, indicating a degraded echo

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:

5.3 L2 Auxiliary Data File Usage Check

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

Number of products with errors:

5.4 L2 Auxiliary Correction Error Check

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.

61

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_220200809T000945_20200809T003241_D001	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_220200809T005158_20200809T010306_D001	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_220200809T010323_20200809T010639_D001	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_20200809T010644_20200809T010831_D001	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_220200809T011313_20200809T012215_D001	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_20200809T012217_20200809T012733_D001	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_220200809T014013_20200809T015716_D001	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_20200809T015927_20200809T021346_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T023055_20200809T024236_D001	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_220200809T024317_20200809T024537_D001	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_220200809T024738_20200809T025659_D001	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_220200809T032040_20200809T033449_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T034145_20200809T035439_D001	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_220200809T041043_20200809T042619_D001	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_220200809T042857_20200809T043108_D001	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_220200809T043925_20200809T044111_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T045906_20200809T050719_D001	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_220200809T050824_20200809T053431_D001	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_220200809T055049_20200809T061406_D001	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_220200809T061643_20200809T062504_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T062707_20200809T062737_D001	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_220200809T064554_20200809T071300_D001	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_220200809T072929_20200809T075638_D001	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_220200809T080028_20200809T080722_D001	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_220200809T081916_20200809T085133_D001	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_220200809T095815_20200809T100723_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T101008_20200809T103126_D001	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_220200809T104906_20200809T110001_D001	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_220200809T110031_20200809T110514_D001	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_220200809T113503_20200809T121007_D001	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_220200809T122926_20200809T130106_D001	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_220200809T131320_20200809T132804_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 , a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T133246_20200809T133344_D001	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_220200809T133401_20200809T134939_D001	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_220200809T140730_20200809T141958_D001	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_220200809T142439_20200809T144006_D001	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_220200809T145743_20200809T150005_D001	Surface Model Unavailable	No DEM or Slope Model was used for the location of one or more records

CS_OFFL_SIR_LRM_220200809T150245_20200809T151306_D001	Height Error (Retracker 2), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T151446_20200809T152828_D001	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_220200809T154957_20200809T155814_D001	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_2_20200809T160210_20200809T160658_D001	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_220200809T161644_20200809T161904_D001	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_220200809T164546_20200809T170643_D001	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_220200809T172321_20200809T175053_D001	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_220200809T181154_20200809T181235_D001	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_220200809T182236_20200809T184627_D001	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_220200809T190232_20200809T193517_D001	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_220200809T194818_20200809T195522_D001	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_220200809T195859_20200809T200552_D001	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_220200809T200555_20200809T201727_D001	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_220200809T202142_20200809T202553_D001	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_220200809T204334_20200809T211507_D001	Height Error (Retracker 2), Height Error (Retracker 3), Backscatter Error (Retracker 2), Surface model unavailable	There is a height and backscatter error for Retracker 2, a height error for Retracker 3 and no DEM or Slope Model was used for the location of one or more records
CS_OFFL_SIR_LRM_220200809T212705_20200809T212921_D001	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_220200809T215032_20200809T215227_D001	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_220200809T215452_20200809T220344_D001	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_220200809T222142_20200809T224250_D001	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_220200809T224535_20200809T225709_D001	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_220200809T232532_20200809T233143_D001	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_220200809T233232_20200809T234343_D001	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_220200809T135756_20200809T135759_D001	Calibration Warning	The Calibration correction is missing or has been taken from the IPFDB instead of the Calibration products for one or more records
CS_OFFL_SIR_SIN_220200809T153711_20200809T153714_D001	Calibration Warning	The Calibration correction is missing or has been taken from the IPFDB instead of the Calibration products for one or more records
	OCC Banart Analysia	

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	146	146	146	0	0
SIR_SAR_1B	91	91	91	0	0
SIR_SIN_1B	99	99	99	0	0
SIR_LRM_2	146	146	141	5	0
SIR_SAR_2	99	91	91	0	0
SIR_SIN_2	91	99	97	2	0
SIR_GDR_2	14	14	0	0	14

6.1 QCC Errors

Number of products with QCC errors:

Number of prod	lucts with QCC	errors:	14								
Product Type	MPHDUTNCDF	MPHXPFNCDF	MPHXVFNCDF	MPHYPFNCDF	MPHYVFNCDF	MPHZPFNCDF	MPHZVFNCDF	-	-	-	-
SIR_GDR_2_	14	14	14	14	14	14	14				
Test Description	n Key:			-							

Abbreviation	Test name	Details
MPHDUTNCDF	MPH_Delta_UT1_NetCDF	Delta_UT1 mismatch
MPHXPFNCDF	MPH_X_Position_Float_v2_NetCDF	X_Position mismatch (DBL float (GDR), rounded to 100)
MPHXVFNCDF	MPH_X_Velocity_Float_v2_NetCDF	X_Velocity mismatch (DBL float (GDR), rounded to 1)
MPHYPFNCDF	MPH_Y_Position_Float_v2_NetCDF	Y_Position mismatch (DBL float (GDR), rounded to 100)
MPHYVFNCDF	MPH_Y_Velocity_Float_v2_NetCDF	Y_Velocity mismatch (DBL float (GDR), rounded to 1)
MPHZPFNCDF	MPH_Z_Position_Float_v2_NetCDF	Z_Position mismatch (DBL float (GDR), rounded to 100)
MPHZVFNCDF	MPH_Z_Velocity_Float_v2_NetCDF	Z_Velocity mismatch (DBL float (GDR), rounded to 1)

6.2 QCC Warnings

Number of QCC reports with warnings

Total number of occurrences of each warning

Product Type AXDME AXSMMEOCI - <th></th> <th colspan="5">Total number of occurrences of each warning</th> <th></th>		Total number of occurrences of each warning						
	Product Type	AXDME	AXSMMEOCI	-	-	-	-	-
	SIR_GDR_2_	0	1					
SIR_LRM_2_ 0 5	SIR_LRM_2_	0	5					

8

0

Test Description Key:					
Abbreviation	Test name	Details			
AXDME	AttributeXrefDemMustExist	The xref_dem attribute is mandatory in SIN products over continental ice			
AXSMMEOCI	AttributeXrefSlopeModelMustExistOverContinentalIce	The xref_slope_model is mandatory in LRM products over continental ice			

6.2 Missing QCC Reports

Number of products with missing QCC reports: