Title:

S-1A: Invalid POD orbit files used during the processing

Description:

The Sentinel-1 AUX_RESORB and AUX_PREORB products with coverage after 16/05/2022 @ 18:48 (UTC) and with generation date before 17/05/2022 @ 05:30 (UTC) are degraded in accuracy due to the lack of manoeuvre information of Sentinel-1 A on day 16th and 17th of May, at the time when the products were computed. Therefore, these products are highly degraded.

Some of the expected degradations are linked to improper attitude knowledge leading inter alia to:

- Improper azimuth focusing with large azimuth shift of Level 1 and Level 2 products
- Invalid compensation of elevation antenna pattern leading to large radiometric bias for every beam and large beam to beam offset.

The AUX_RESORB and AUX_PREORB generated since 17/05/2022 @ 07:00 (UTC) are not impacted by this anomaly.

The list of invalid AUX_RESORB and AUX_PREORB is provided at the end of this report.

The list of products processed with invalid AUX_RESORB and AUX_PREORB is provided at the end of this report.

There is no anomaly on the platform and on Level 0 product.

Degradation types:

- ☐ DEGRADED_PRODUCT_RADIOMETRY
- ☒ DEGRADED_RADIOMETRIC_CALIBRATION
- ☐ DEGRADED_ORBIT_CONTROL
- ☒ COMPLETE_PRODUCT_DEGRADATION
- ☐ DEGRADED_PHASE
- ☒ DEGRADED_PRODUCT_GEOLOCATION
- ☒ DEGRADED_PLATFORM_POINTING
- ☐ DEGRADED_PERFORMANCE_INSTRUMENT_ANOMALY
- ☐ SLICE_PRODUCT_NON_CONCATENABLE
- ☐ OTHER

Degradation percentage[1]:

100%

Impacted products:

Platform:	☒ S-1A	☐ S-1B			
Acquisition mode:	☒ EW	☒ IW	☒ SM	☒ WV	☐ RF
Product type:	☐ RAW	☒ SLC	☒ GRD	☒ OCN	
Resolution class:	☐ MR	☐ HR	☐ FR	☒ N/A	
Polarization:	☒ SH (Single pol. H)		☒ SV (Single pol. V)		
	☒ DH (Double pol. H)		☒ DV (Double pol. V)		
Processing facility:	N/A				

IPF version: N/A

Instrument Configuration ID (RDB): N/A

ADF files:

AUX_INS	N/A
AUX_CAL	N/A
AUX_PP1	N/A
AUX_PP2	N/A
AUX_SCS	N/A

[1] Percentage of degradation of the data in the product (100% means that the product should be masked in the product catalogue)

Beginning of the issue:

Start acquisition date: 2022-05-16T14:18:30
Start generation date: 2022-05-16T15:21:51
Orbit: 043237
Datatake (hex): 0529EA

End of the issue:

☐ not yet defined ☒ available

End acquisition date: 2022-05-17T06:40:32
End generation date: 2022-05-17T07:27:47
Orbit: 043247
Datatake (hex): 052A37

Cause:

POD Orbit files generated without taking into account the satellite manoeuvre occurring during the period.

Status:

New orbit files generated

The impacted products were reprocessed between 2022-05-30 and 2022-06-06, and new versions not impacted by the anomaly are available in the Open Access Hub (scihub). However, the initially impacted products may be still available as duplicates.

We suggest the users having downloaded the initial products impacted by the anomaly (refer to list below) to download the most recent ones.

References:

- **MPC ref:** MPCS-2840
- **CAMS ref:** PDGSANOM-10313, PDGSANOM-10294

List of impacted AUX_RESORB and AUX_PREORB

S1A_OPER_AUX_RESORB_OPOD_20220516T202855_V20220516T165447_20220516T201217.EOF
S1A_OPER_AUX_RESORB_OPOD_20220516T222658_V20220516T183331_20220516T215101.EOF
S1A_OPER_AUX_RESORB_OPOD_20220517T000954_V20220516T201216_20220516T232946.EOF
S1A_OPER_AUX_RESORB_OPOD_20220517T015203_V20220516T215100_20220517T010830.EOF
S1A_OPER_AUX_RESORB_OPOD_20220517T033340_V20220516T232945_20220517T024715.EOF
S1A_OPER_AUX_RESORB_OPOD_20220517T050935_V20220517T010830_20220517T042600.EOF

S1A_OPER_AUX_PREORB_OPOD_20220516T141736_V20220516T133723_20220516T201223.EOF
S1A_OPER_AUX_PREORB_OPOD_20220516T154829_V20220516T151608_20220516T215108.EOF
S1A_OPER_AUX_PREORB_OPOD_20220516T172433_V20220516T165452_20220516T232952.EOF
S1A_OPER_AUX_PREORB_OPOD_20220516T191030_V20220516T183337_20220517T010837.EOF
S1A_OPER_AUX_PREORB_OPOD_20220516T203000_V20220516T201221_20220517T024721.EOF
S1A_OPER_AUX_PREORB_OPOD_20220516T222820_V20220516T215106_20220517T042606.EOF
S1A_OPER_AUX_PREORB_OPOD_20220517T001102_V20220516T232950_20220517T060450.EOF
S1A_OPER_AUX_PREORB_OPOD_20220517T015318_V20220517T010835_20220517T074335.EOF
S1A_OPER_AUX_PREORB_OPOD_20220517T033452_V20220517T024720_20220517T092220.EOF
S1A_OPER_AUX_PREORB_OPOD_20220517T051042_V20220517T042604_20220517T110104.EOF

List of impacted products:

S1A_EW_GRDM_1SDH_20220516T185326_20220516T185411_043240_052A01_A092.SAFE
S1A_EW_GRDM_1SDV_20220517T020132_20220517T020236_043244_052A21_8E40.SAFE
S1A_EW_GRDM_1SDV_20220517T020236_20220517T020336_043244_052A21_71AF.SAFE
S1A_EW_GRDM_1SDV_20220517T020336_20220517T020437_043244_052A21_D8B3.SAFE
S1A_EW_GRDM_1SSH_20220516T231037_20220516T231141_043242_052A14_333F.SAFE
S1A_EW_GRDM_1SSH_20220516T231141_20220516T231241_043242_052A14_4ED8.SAFE
S1A_EW_GRDM_1SSH_20220516T231241_20220516T231300_043242_052A14_52FA.SAFE
S1A_EW_GRDM_1SSH_20220517T022553_20220517T022614_043244_052A23_A6B2.SAFE

S1A_EW_OCN__2SDV_20220517T020132_20220517T020236_043244_052A21_B984.SAFE
S1A_EW_OCN__2SDV_20220517T020236_20220517T020336_043244_052A21_6E7A.SAFE
S1A_EW_OCN__2SDV_20220517T020336_20220517T020437_043244_052A21_F94B.SAFE
S1A_EW_OCN__2SSH_20220516T231037_20220516T231141_043242_052A14_56BD.SAFE
S1A_EW_OCN__2SSH_20220516T231141_20220516T231241_043242_052A14_41C7.SAFE
S1A_EW_OCN__2SSH_20220516T231241_20220516T231300_043242_052A14_D0F1.SAFE
S1A_EW_OCN__2SSH_20220517T022553_20220517T022614_043244_052A23_65FC.SAFE

S1A_IW_GRDH_1SDH_20220516T202847_20220516T202912_043241_052A07_6801.SAFE
S1A_IW_GRDH_1SDH_20220516T202912_20220516T202926_043241_052A07_1B66.SAFE
S1A_IW_GRDH_1SDV_20220516T152331_20220516T152400_043238_0529EF_62BF.SAFE
S1A_IW_GRDH_1SDV_20220516T152400_20220516T152425_043238_0529EF_CCD2.SAFE
S1A_IW_GRDH_1SDV_20220516T152425_20220516T152450_043238_0529EF_44CD.SAFE
S1A_IW_GRDH_1SDV_20220516T152450_20220516T152515_043238_0529EF_920B.SAFE
S1A_IW_GRDH_1SDV_20220516T152515_20220516T152540_043238_0529EF_DA29.SAFE
S1A_IW_GRDH_1SDV_20220516T152540_20220516T152605_043238_0529EF_58B0.SAFE
S1A_IW_GRDH_1SDV_20220516T152605_20220516T152630_043238_0529EF_2AB3.SAFE
S1A_IW_GRDH_1SDV_20220516T152630_20220516T152655_043238_0529EF_959D.SAFE
S1A_IW_GRDH_1SDV_20220516T152655_20220516T152720_043238_0529EF_DC86.SAFE
S1A_IW_GRDH_1SDV_20220516T152720_20220516T152745_043238_0529EF_2B1A.SAFE
S1A_IW_GRDH_1SDV_20220516T152745_20220516T152810_043238_0529EF_E877.SAFE
S1A_IW_GRDH_1SDV_20220516T152810_20220516T152835_043238_0529EF_D4EF.SAFE
S1A_IW_GRDH_1SDV_20220516T152835_20220516T152900_043238_0529EF_BA0F.SAFE
S1A_IW_GRDH_1SDV_20220516T152900_20220516T152925_043238_0529EF_9590.SAFE
S1A_IW_GRDH_1SDV_20220516T152925_20220516T152950_043238_0529EF_5EC8.SAFE
S1A_IW_GRDH_1SDV_20220516T152950_20220516T153015_043238_0529EF_CE01.SAFE
S1A_IW_GRDH_1SDV_20220516T153015_20220516T153027_043238_0529EF_5776.SAFE
S1A_IW_GRDH_1SDV_20220516T153204_20220516T153233_043238_0529F0_160A.SAFE
S1A_IW_GRDH_1SDV_20220516T153233_20220516T153258_043238_0529F0_6A0E.SAFE
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S1A_IW_GRDH_1SDV_20220516T153323_20220516T153348_043238_0529F0_106C.SAFE
S1A_IW_GRDH_1SDV_20220516T153348_20220516T153413_043238_0529F0_49D4.SAFE
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S1A_IW_GRDH_1SDV_20220516T153528_20220516T153553_043238_0529F0_CC2C.SAFE
S1A_IW_GRDH_1SDV_20220516T153553_20220516T153618_043238_0529F0_43B3.SAFE
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S1A_IW_GRDH_1SDV_20220516T170300_20220516T170329_043239_0529F7_3CCE.SAFE
S1A_IW_GRDH_1SDV_20220516T170329_20220516T170354_043239_0529F7_5ECD.SAFE
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S1A_IW_GRDH_1SDV_20220516T170419_20220516T170444_043239_0529F7_0748.SAFE
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S1A_IW_GRDH_1SDV_20220516T170804_20220516T170829_043239_0529F7_33B1.SAFE
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S1A_IW_GRDH_1SDV_20220516T183556_20220516T183621_043240_0529FE_F409.SAFE
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S1A_IW_GRDH_1SDV_20220516T183711_20220516T183736_043240_0529FE_5FA9.SAFE
S1A_IW_GRDH_1SDV_20220516T183736_20220516T183801_043240_0529FE_6723.SAFE
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S1A_IW_GRDH_1SDV_20220516T184407_20220516T184432_043240_0529FF_0480.SAFE
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S1A_IW_GRDH_1SDV_20220516T184522_20220516T184549_043240_0529FF_EECB.SAFE
S1A_IW_GRDH_1SDV_20220516T184957_20220516T185022_043240_052A00_8178.SAFE
S1A_IW_GRDH_1SDV_20220516T185022_20220516T185047_043240_052A00_9794.SAFE
S1A_IW_GRDH_1SDV_20220516T185047_20220516T185112_043240_052A00_A6B7.SAFE
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S1A_IW_GRDH_1SDV_20220516T204807_20220516T204836_043241_052A09_5ADC.SAFE
S1A_IW_GRDH_1SDV_20220516T204836_20220516T204901_043241_052A09_5581.SAFE
S1A_IW_GRDH_1SDV_20220516T204901_20220516T204926_043241_052A09_9E9A.SAFE
S1A_IW_GRDH_1SDV_20220516T204926_20220516T204948_043241_052A09_6F73.SAFE
S1A_IW_GRDH_1SDV_20220516T205114_20220516T205143_043241_052A0A_38B6.SAFE
S1A_IW_GRDH_1SDV_20220516T205143_20220516T205208_043241_052A0A_00DA.SAFE
S1A_IW_GRDH_1SDV_20220516T205208_20220516T205234_043241_052A0A_9B46.SAFE
S1A_IW_GRDH_1SDV_20220516T215122_20220516T215151_043242_052A0E_3293.SAFE
S1A_IW_GRDH_1SDV_20220516T215151_20220516T215216_043242_052A0E_64A3.SAFE
S1A_IW_GRDH_1SDV_20220516T215216_20220516T215241_043242_052A0E_BBEB.SAFE
S1A_IW_GRDH_1SDV_20220516T220036_20220516T220105_043242_052A10_A569.SAFE
S1A_IW_GRDH_1SDV_20220516T220105_20220516T220130_043242_052A10_5BBA.SAFE
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S1A_IW_GRDH_1SDV_20220516T220245_20220516T220310_043242_052A10_BBB7.SAFE
S1A_IW_GRDH_1SDV_20220516T220310_20220516T220335_043242_052A10_B862.SAFE

S1A_IW_GRDH_1SDV_20220516T220335_20220516T220400_043242_052A10_B5C9.SAFE
S1A_IW_GRDH_1SDV_20220516T220400_20220516T220425_043242_052A10_C33C.SAFE
S1A_IW_GRDH_1SDV_20220516T220425_20220516T220450_043242_052A10_EBD9.SAFE
S1A_IW_GRDH_1SDV_20220516T220450_20220516T220515_043242_052A10_9097.SAFE
S1A_IW_GRDH_1SDV_20220516T220515_20220516T220540_043242_052A10_7D3F.SAFE
S1A_IW_GRDH_1SDV_20220517T000838_20220517T000907_043243_052A17_8999.SAFE
S1A_IW_GRDH_1SDV_20220517T000907_20220517T000932_043243_052A17_DEA8.SAFE
S1A_IW_GRDH_1SDV_20220517T000932_20220517T000957_043243_052A17_F9CF.SAFE
S1A_IW_GRDH_1SDV_20220517T000957_20220517T001022_043243_052A17_8FE3.SAFE
S1A_IW_GRDH_1SDV_20220517T001022_20220517T001047_043243_052A17_9965.SAFE
S1A_IW_GRDH_1SDV_20220517T001047_20220517T001112_043243_052A17_F7FF.SAFE
S1A_IW_GRDH_1SDV_20220517T001112_20220517T001137_043243_052A17_21B7.SAFE
S1A_IW_GRDH_1SDV_20220517T001137_20220517T001202_043243_052A17_6BB9.SAFE
S1A_IW_GRDH_1SDV_20220517T001202_20220517T001227_043243_052A17_0AA8.SAFE
S1A_IW_GRDH_1SDV_20220517T001227_20220517T001252_043243_052A17_140B.SAFE
S1A_IW_GRDH_1SDV_20220517T001252_20220517T001317_043243_052A17_DF9F.SAFE
S1A_IW_GRDH_1SDV_20220517T001317_20220517T001342_043243_052A17_34D2.SAFE
S1A_IW_GRDH_1SDV_20220517T001342_20220517T001407_043243_052A17_264A.SAFE
S1A_IW_GRDH_1SDV_20220517T001407_20220517T001433_043243_052A17_6A84.SAFE
S1A_IW_GRDH_1SDV_20220517T001711_20220517T001746_043243_052A18_9270.SAFE
S1A_IW_GRDH_1SDV_20220517T032110_20220517T032139_043245_052A26_4056.SAFE
S1A_IW_GRDH_1SDV_20220517T032139_20220517T032204_043245_052A26_FE17.SAFE
S1A_IW_GRDH_1SDV_20220517T032204_20220517T032229_043245_052A26_B644.SAFE
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S1A_S6_SLC__1SDV_20220516T214402_20220516T214431_043241_052A0D_4432.SAFE

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S1A_WV_OCN__2SSV_20220516T224256_20220516T225822_043242_052A13_4627.SAFE
S1A_WV_OCN__2SSV_20220517T005105_20220517T011153_043243_052A1A_62B0.SAFE
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S1A_WV_OCN__2SSV_20220517T043242_20220517T044048_043246_052A2B_783B.SAFE
S1A_WV_OCN__2SSV_20220517T051653_20220517T053514_043246_052A2F_6E20.SAFE
S1A_WV_OCN__2SSV_20220517T060059_20220517T061920_043246_052A34_0F97.SAFE

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