

**Title:**

S-1A Products generated without AUX\_RESORB on 19th July

**Description:**

On 19<sup>th</sup> July 2019, S-1A products were processed without Restituted Orbit Files. This induces a minor degradation in the geolocation accuracy of these products.

The identification of impacted products can be done based on the following matching conditions (all matching):

- Acquisition dates (see below)
- Processing dates (see below)
- Product types (see below)
- No AUX\_RESORB is mentioned in the product manifest

The complete list of impacted products (by their names) is provided below.

**Degradation types:**

- |   |  |
|---|--|
| <input type="checkbox"/> DEGRADED_PRODUCT_RADIOMETRY      | <input checked="" type="checkbox"/> DEGRADED_PRODUCT_GEOLOCATION |
| <input type="checkbox"/> DEGRADED_RADIOMETRIC_CALIBRATION | <input type="checkbox"/> DEGRADED_PLATFORM_POINTING              |
| <input type="checkbox"/> DEGRADED_ORBIT_CONTROL           | <input type="checkbox"/> DEGRADED_PERFORMANCE_INSTRUMENT_ANOMALY |
| <input type="checkbox"/> COMPLETE_PRODUCT_DEGRADATION     | <input type="checkbox"/> SLICE_PRODUCT_NON_CONCATENABLE          |
| <input type="checkbox"/> DEGRADED_PHASE                   | <input type="checkbox"/> OTHER                                   |

**Degradation percentage<sup>1</sup>:**

10%

**Impacted products:**

- |                             |  |  |  |   |                             |
|-----------------------------|--|--|--|---|-----------------------------|
| <b>Platform:</b>            | <input checked="" type="checkbox"/> S-1A               | <input type="checkbox"/> S-1B                          |  |   |                             |
| <b>Acquisition mode:</b>    | <input type="checkbox"/> EW                            | <input checked="" type="checkbox"/> IW                 | <input type="checkbox"/> SM                            | <input checked="" type="checkbox"/> WV  | <input type="checkbox"/> RF |
| <b>Product type:</b>        | <input type="checkbox"/> RAW                           | <input checked="" type="checkbox"/> SLC                | <input type="checkbox"/> GRD                           | <input type="checkbox"/> OCN            |                             |
| <b>Resolution class:</b>    | <input type="checkbox"/> MR                            | <input type="checkbox"/> HR                            | <input type="checkbox"/> FR                            | <input checked="" type="checkbox"/> N/A |                             |
| <b>Polarization:</b>        | <input checked="" type="checkbox"/> SH (Single pol. H) | <input checked="" type="checkbox"/> SV (Single pol. V) | <input checked="" type="checkbox"/> DV (Double pol. V) |   |                             |
|                             | <input checked="" type="checkbox"/> DH (Double pol. H) | <input checked="" type="checkbox"/> PAC2 / DPA         |  |   |                             |
| <b>Processing facility:</b> | <input checked="" type="checkbox"/> PAC1 / UPA         | <input checked="" type="checkbox"/> CGS2 / Svalbard    | <input type="checkbox"/> CGS3 / Maspalomas             |   |                             |
|                             | <input type="checkbox"/> CGS1 / Matera                 |  |  |   |                             |

**IPF version:** N/A

**Instrument Configuration ID (RDB):** N/A

**ADF files:**

<i>AUX_INS</i>	N/A
<i>AUX_CAL</i>	N/A
<i>AUX_PP1</i>	N/A
<i>AUX_PP2</i>	N/A
<i>AUX_SCS</i>	N/A

**Beginning of the issue:**

Start acquisition date: 2019-07-18 22:52:54 UTC  
 Start generation date: 2019-07-19  
 Orbit: N/A  
 Datatake (hex): 032ED1

<sup>1</sup> Percentage of degradation of the data in the product (100% means that the product should be masked in the product catalogue)

**End of the issue:**

not yet defined  available

End acquisition date 2019-07-18 23:55:52 UTC

End generation date: 2019-07-19

Orbit: N/A

Datatake (hex): 032ED6

**Cause:**

Unavailability of RESORB information at the time of the initial production.

**Status:**

The accuracy in geolocation of products processed in such configuration is under investigation. In any case, the impact is expected to be low. In order to maintain the consistency on geolocation performance over the whole S-1 dataset, the affected products (see attached list) will be reprocessed.

**References:**

- **MPC ref:** MPC5-2066
- **PDGS ref:** S1PDGS-94562
- **ARTS ref:** Cliquez ici pour taper du texte.

## Appendix

### List of S1A impacted products:

S1A\_IW\_SLC\_\_1SDV\_20190718T225254\_20190718T225324\_028178\_032ED1\_A535.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225322\_20190718T225350\_028178\_032ED1\_80A5.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225348\_20190718T225415\_028178\_032ED1\_B97C.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225413\_20190718T225436\_028178\_032ED1\_7DB3.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225750\_20190718T225819\_028178\_032ED2\_753A.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225817\_20190718T225845\_028178\_032ED2\_B710.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225843\_20190718T225910\_028178\_032ED2\_DD26.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225908\_20190718T225935\_028178\_032ED2\_D929.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225933\_20190718T230000\_028178\_032ED2\_6273.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T225957\_20190718T230024\_028178\_032ED2\_BA8D.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T230022\_20190718T230059\_028178\_032ED2\_A186.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232603\_20190718T232633\_028178\_032ED3\_04FE.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232631\_20190718T232659\_028178\_032ED3\_C53F.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232657\_20190718T232724\_028178\_032ED3\_27F4.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232721\_20190718T232748\_028178\_032ED3\_E173.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232746\_20190718T232813\_028178\_032ED3\_C780.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232811\_20190718T232838\_028178\_032ED3\_F326.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232836\_20190718T232904\_028178\_032ED3\_54FC.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232902\_20190718T232929\_028178\_032ED3\_C267.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232926\_20190718T232953\_028178\_032ED3\_CFF7.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T232951\_20190718T233018\_028178\_032ED3\_74E9.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233016\_20190718T233043\_028178\_032ED3\_60CA.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233041\_20190718T233108\_028178\_032ED3\_93D1.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233106\_20190718T233134\_028178\_032ED3\_DA1B.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233131\_20190718T233159\_028178\_032ED3\_9D33.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233156\_20190718T233223\_028178\_032ED3\_D60F.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233221\_20190718T233248\_028178\_032ED3\_BDC5.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233246\_20190718T233313\_028178\_032ED3\_362C.SAFE  
S1A\_IW\_SLC\_\_1SDV\_20190718T233311\_20190718T233343\_028178\_032ED3\_2DCA.SAFE  
S1A\_WV\_SLC\_\_1SSV\_20190718T233701\_20190718T235552\_028178\_032ED6\_AA99.SAFE



