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## Sentinel-3A Product Notice – STM L2 Marine (NRT, STC and NTC)

<b>Mission</b>	S3-A
<b>Sensor</b>	SRAL/MWR
<b>Product</b>	L2 NRT STC and NTC (Marine Products)
<b>Product Notice ID</b>	S3A.PN-STM-L2M.01 EUM/OPS-SEN3/DOC/16/893228
<b>Issue Date</b>	12 April 2017
<b>Version</b>	v1C e-signed
<b>Preparation</b>	This Product Notice was prepared by EUMETSAT with the support of the ESA and the S3 Mission Performance Centre experts
<b>Approval</b>	EUMETSAT Mission Management

### Summary

This document is the Product Notice for the public release of Sentinel-3 Surface Topography Mission (STM) Level-2 products at Near Real Time (NRT), Short Time Critical (STC) and Non-Time Critical (NTC) timeliness produced at the Marine Centre.

The Notice describes the STM current status, processing baseline, product quality and limitations, and product availability status.



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## Processing Information

### Processing Baseline

- Processing Baseline (PB) **2.12**
  - SRAL L1 IPF (SR-1): version **06.11**
  - MWR L1 IPF (MW-1): version **06.03** (same as PB 2.10)
  - SRAL/MWR L2 IPF (SM-2): version **06.07**
  - The list of Static Auxiliary Data Files that are part of the Processing Baseline can be found at the end of the document.

## Description

### Status of the Processing Baseline (PB)

The current processing baseline for Sentinel-3A STM products is reported above.

The installation date of the different IPFs is reported below. It includes the installation date of previous processing baselines, whose datasets are still available to users.

Installation Date	IPF	Version
2016-11-17	SR-1	06.07 (PB 2.9)
	SM-2	06.05 (PB 2.9)
2016-11-29	ADF SR_2_CON_AX (SM-2)	006 (PB 2.9)
2017-11-12	SR-1	06.09 (PB 2.9)
2017-02-28	SR-1	06.10 (PB 2.10)
	MW-1 (current)	06.03 (PB 2.10)
	SM-2	06.06 (PB 2.10)
2017-04-12	SR-1 (current)	06.11 (PB 2.12)
	SM-2 (current)	06.07 (PB 2.12)

The quality status of the current baseline products is as follows:

#### **L2 Marine Products:**

The quality of L2 WAT product is within the mission requirements for the 3 SRAL parameters (Range, SWH, and Wind Speed).

The sea ice processing is not yet optimised but is mainly due to a 'bad timing' of the S-3A launch date vis-à-vis of the season timing (winter) for performing the expected processing parameterisation

#### **Product Availability**

The SRAL L2 products (NRT/STC/NTC) are within the mission requirements in terms of availability (completeness, quality and timeliness).

Notice that the SRAL NRT products are 10 minutes length, instead of being dump based, as originally specified – this is part of the new Product Definition.



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EUMETSAT makes the Marine Data available from the pilot Copernicus Online Data Access (CODA) service, EUMETCAST and the EUMETSAT Data Centre.

Product	EUMETCast	ODA*	CODA**	EUMETSAT Data Centre
L2	NRT, STC	NRT, STC, NTC	NRT, STC, NTC	NRT, STC, NTC

\* ODA is available only for Copernicus Services and S3VT users

\*\* CODA is the pilot service Copernicus Online Data Access and is available to all users

### **Known product quality limitations**

The Sentinel-3A STM products have some known processing limitations which are reported in the next pages as «Anomalies» or «Notices». Anomalies are related to issues on the processing baseline (e.g. *bugs*) whilst Notices are limitations which are planned to be improved in the medium-long term (e.g. *algorithm evolution, calibration campaigns, etc.*).

Improvements to the sea-ice ground processing are foreseen in the near future.

Several improvements were performed to the OCOG *retracking* as part of the improvements available in PB 2.12.

### **Notices on the product**

- **Notice #1 – MWR calibration is not completed**

MWR calibration is not completed, so the radiometer measurement values and derived quantities do not have an optimised performance.

The MWR L1 brightness temperatures exhibit a difference of up to 1 K between ascending and descending tracks for the 23.8 GHz channel. Work is on going to understand the source of this difference.

In the L2 products the radiometer wet tropospheric correction deduced from 5 parameters has not been calibrated yet and should not be used (*rad\_wet\_tropo\_cor\_sst\_gam\_01\_ku* and *rad\_wet\_tropo\_cor\_sst\_gam\_01\_plrm\_ku*).

The composite wet tropospheric correction has not been calibrated yet and should not be used (*comp\_wet\_tropo\_cor\_01\_ku* and *comp\_wet\_tropo\_cor\_01\_plrm\_ku*).

- **Notice #2 - MWR parameters not computed due to MWR calibration over open ocean**

During MWR calibrations over open ocean, the brightness temperatures for both channels are not computed and set to default values in the product.

As a consequence, 1 Hz parameters derived from the MWR are set to default values, except for the atmospheric attenuation. This affects the wet tropospheric correction, water vapour content and cloud liquid water content.

A revision of the MWR calibration sequence is under investigation. This would reduce the number of occasions where the MWR values are set to Default. A fix is expected in summer 2017.



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- **Notice #3 - Mean values of Ku band and C band sigma0**

The Ku band sigma0 in all modes (LRM, PLRM and SAR) has been biased to be aligned on Envisat mean value (10.8 dB without the atmospheric attenuation). A system bias of -25.95 dB was applied to SARM Ku band and of -2 dB to the LRM and PLRM Ku band. Note that up to processing baseline 2.9 (including) this value was set to -25.65 dB.

Note also that the sigma0 derived from ice sheet retracers exhibits a mean value close to 42 dB

The C-band sigma0 in all modes (LRM and PLRM) has not been biased and exhibit a mean value around 11 dB which is lower by 4 dB compared to Jason-2.

In contrast to other altimeter products, sigma0 is **not** corrected for attenuation. This is done only before injection into algorithms like the wind speed one.

- **Notice #4 - Noise on the dual frequency ionospheric correction**

The higher noise of the C band range inherent to the PLRM processing contributes to a high noise in the dual frequency ionospheric correction.

- **Notice #5 - SAR SWH and range values are not yet optimised**

The SAR Ku band SWH from SAMOSA retracker shows an error correlated to SWH, as expected on SAMOSA 2.3 retracker. The maximum magnitude of the error is estimated to 30 cm for the stronger waves. This will be corrected in the future by the inclusion of the SAMOSA 2.5 retracker.

The SAR range values show a discrepancy of 0.5% SWH compared to PLRM and Jason-2 observations. This will be corrected in the future by the inclusion of the SAMOSA 2.5 retracker. Note that the SSB correction has not been tuned for Sentinel-3A and contains Jason-2 SSB solution.

A fix is expected in summer 2017.

- **Notice #6 – Some geophysical flags have not been tuned for Sentinel-3A**

Some geophysical flags were derived from Envisat mission and have not been tuned for Sentinel-3A.

The rain flag is presently based on Envisat flag and it has not been tuned for Sentinel-3A mission.

The ocean/sea ice flag is presently based on Envisat flag and it has not been tuned for Sentinel-3A mission.

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## Anomaly Information

The following anomalies affect all the data processed with the L2 IPF, up to version 06.07, unless stated otherwise.

- **Anomaly “EUM/Sen3/AR/2273” - “SIIMPC-926” - Duplicated measurements at granule transition**

Duplicated measurements at 10 minutes granule transition in L2 NRT products.

There are duplicates of 1 Hz measurements (same 1 Hz time tag) between consecutive granules. At granules transition, the last 1 Hz measurement and the first 1 Hz measurement of the following granule may have the same datation. In some cases, the 1 Hz range values (on either or both granules) might be set to default values because there are not enough 20 Hz observations within the granule to compute the 1 Hz range.

This generates about 100 seconds of potentially duplicated data per day (in NRT).

Note that the 20 Hz parameters (range, SWH and Sigma0) are not affected.

**Affects:** L2 SRAL NRT



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- **Anomaly “EUM/Sen3/NCR/2587” - “SIIMPC-1076” - Overflow of the Ku band atmospheric attenuation**

In the L2 products the atmospheric attenuation in Ku band is set to default values in the products when value exceeds 1.27 dB.

Note that for these measurements the wind speed is well calculated.

**Affects:** L2 SRAL NRT/STC/NTC

- **Anomaly “SIIMPC-1077” - Atmospheric attenuation issue during MWR calibration**

The atmospheric attenuation on Ku band and C band is set to default values for sporadic points located in the fringe of the MWR calibration sequences. These isolated 1 Hz values can be found over open ocean.

As a consequence, wind speed, sea state bias, dual frequency ionospheric correction and ssha parameters are set to default value.

**Affects:** L2 SRAL NRT/STC/NTC

- **Anomaly “EUM/Sen3/NCR/3116 - SIIMPC-1078” - Error in bathymetry parameter**

The bathymetry parameter has some error at the crossing of the Greenwich meridian. The bathymetry is set to zero between 0° and 20°E for some specific latitudes.

**Affects:** L2 SRAL NRT/STC/NTC.

Version 06.07 (PB 2.12) corrects this issue.

- **Anomaly “EUM/Sen3/NCR/1944” - SAR backscatter coefficient has an error correlated with radial velocity**

The anomaly was partially resolved but a small bias is still present. The SAR Ku band sigma0 from ocean/coastal retracker (sig0\_ocean\_01\_ku) shows an error correlated with radial velocities above 20 m/s. The maximum magnitude of the error is estimated to 0.2 dB for the stronger velocities (25m/s).

**Affects:** L2 SRAL NRT/STC/NTC

- **Anomaly “EUM/Sen3/NCR/2391” - Error in C band location parameters**

The location fields corrected for slope effect in C band (lat\_cor\_20\_c, lon\_cor\_20\_c) are set to default values.

**Affects:** L2 SRAL NRT/STC/NTC

- **Anomaly “EUM/Sen3/AR/2268” - Error in the manoeuvre flag**

There is an inconsistency between the product specifications (S3IPF PDS 003 -i1r7- Product Data Format Specification - SRAL-MWR) and the effective values in the products of the manoeuvre presence flag (values set to 4 or 5 instead of 0 and 1 as specified in the documentation).

**Affects:** L2 SRAL NRT/STC

- **Anomaly “SIIMPC-1253” - Error in Inverse Barometer correction**

There is a bias of 1 cm over open ocean on the inverse barometer correction when comparing to the ECMWF model.



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The source of the bias is the calculation of the mean pressure that has to be refined for the handling of the ocean and land grid points.

**Affects:** L2 SRAL NRT/STC/NTC

- **Anomaly “SIIMPC-1013” - Sea Ice discrimination identifying too many floes**

A comparison of Arctic sea ice discrimination statistics during October 2016 between Sentinel-3A and CryoSat shows that S3 processing is identifying four times more floes to leads than CryoSat’s discriminator than would be expected during this period. Sentinel-3A discrimination requires further tuning.

**Affects:** L2 SRAL NRT/STC/NTC

- **Anomaly “EUM/Sen3/AR/2727” - Iono Gim Correction always set to Fill value in STC Products**

The ionospheric GIM correction (fieldname is `iono_cor_gim_01_ku`) is always set to the Fill value on the L2 STC Products and in the global attributes the attribute `xref_iono_data` (input GIM File) is empty.

The issue is related to a wrong definition of the selection of the GIM auxiliary file on the STC chain which prevents the file to be selected and sent to the SRAL L2 IPF.

The impact is not high since this correction is a backup correction and is supposed to not be used

**Affects:** L2 SRAL STC.

Version 06.07 (PB 2.12) corrects this issue.

- **Anomaly “EUM/Sen3/AR/2726” – Wrong Calibration applied to MWR on STC**

An old calibration file was used instead of the more recent ones, in the STC processing chain. This created a degradation of the Wet Tropospheric Correction of about 5mm for a limited period (see below). The NRT and NTC were not affected.

**Affects:** All L2 SRAL STC with sensing time before 2017-01-08 02:34.

- **Anomaly “EUM/Sen3/AR/2759” – Inaccurate SLA due to misuse of IERS Bulletin B**

The IERS Bulletin B is used as part of the L1 STC/NTC processing chain. Due to misuse of the file, a time tag bias of 1 second in the SLA is introduced at L2. This anomaly affects only STC/NTC and not NRT. The affected periods is stated below.

**Affects:** L2 SRAL STC products with sensing time between 2016-12-31 03:29 and 2016-12-31 23:41

- **Anomaly “EUM/Sen3/NCR/2697” – Selection rule of Sea-Ice Concentration ADF is not adequate to NTC**

The current selection of the ADF for Sea-Ice concentration is not adequate to NTC. An inaccurate estimation of Sea-Ice is expected.

**Affects:** All L2 SRAL NTC.

Version 06.07 (PB 2.12) corrects this issue.

- **Anomaly “EUM/Sen3/NCR/2996” – Mismatch between manifest and global attributes.**

The information reported in the SRAL manifest is different from the one reported in the netcdf global attributes. The majority of the auxiliary data files (ADFs) reported in the manifest are not reported in the global attributes



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**Affects: L2 SRAL NRT/STC/NTC**

### **Processing Baseline (PB 2.12) – Static ADFs**

The following list is the complete list of static ADF used by the processors. Any change from the previous processing baseline is highlighted in red. A brief description of the role of each ADF in processing is in the product manifest.

#### • **MWR L1**

- S3A\_MW\_1\_SLC\_AX\_20000101T000000\_20991231T235959\_20160603T120000 MPC\_O\_AL\_002.SEN3
- S3A\_MW\_\_STD\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_MW\_\_CHDNAX\_20160216T000000\_20991231T235959\_20161014T120000 MPC\_O\_AL\_002.SEN3
- S3A\_MW\_\_CHDRAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3

#### • **SRAL L1**

- S3\_AX\_\_CST\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_SR\_1\_CONCAX\_20000101T000000\_20991231T235959\_20160603T120000 MPC\_O\_AL\_002.SEN3
- S3\_SR\_1\_CONMAX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_004.SEN3
- S3\_SR\_\_LSM\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_SR\_\_CHDNAX\_20000101T000000\_20991231T235959\_20160603T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_\_CHDRAX\_20000101T000000\_20991231T235959\_20160603T120000 MPC\_O\_AL\_002.SEN3

#### • **SRAL/MWR L2**

- **S3\_SR\_2\_CON\_AX\_20160216T000000\_20991231T235959\_20170322T120000 MPC\_O\_AL\_008.SEN3**
- S3A\_SR\_2\_CCT\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_SR\_2\_IC01AX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_2\_IC02AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_SR\_2\_IC03AX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_2\_IC04AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_SR\_2\_IC05AX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_2\_IC06AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_SR\_2\_IC07AX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_2\_IC08AX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_2\_EOT2AX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_2\_IC10AX\_20160216T000000\_20991231T235959\_20161010T120000 MPC\_O\_AL\_002.SEN3
- S3A\_SR\_2\_SSBLAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3A\_SR\_2\_SSBSAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_CP00AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_CP06AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_CP12AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_CP18AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_EOT2AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_FLT\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_GEO\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_LNEQAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_LRC\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_LT2\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_LUTEAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_LUTFAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_LUTSAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_MAG\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_MDT\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_MLM\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_MSMGAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_MSS1AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_MSS2AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- **S3\_SR\_2\_ODLEAX\_20160216T000000\_20991231T235959\_20170322T120000 MPC\_O\_AL\_002.SEN3**
- S3\_SR\_2\_RET\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_RRC\_AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_S1AMAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_S1PHAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_S2AMAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_S2PHAX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_SD01AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_SD02AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3
- S3\_SR\_2\_SD03AX\_20000101T000000\_20991231T235959\_20151214T120000 MPC\_O\_AL\_001.SEN3



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• S3_SR_2_SD04AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD05AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD06AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD07AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD08AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD09AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD10AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD11AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SD12AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SET_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SFL_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SHD_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI01AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI02AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI03AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI04AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI05AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI06AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI07AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI08AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI09AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI10AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI11AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SI12AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SIGLAX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SIGSAX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SSM_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SST_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_SURFAX_20160216T000000_20991231T235959_20161010T120000	MPC_O_AL_002.SEN3
• S3_SR_2_WNDLAX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_WNDSAX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_EOT1AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_2_LT1_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_AX_CST_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3_SR_LSM_AX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3A_SR_CHDRAX_20000101T000000_20991231T235959_20160603T120000	MPC_O_AL_002.SEN3
• S3A_SR_CHDNAX_20000101T000000_20991231T235959_20160603T120000	MPC_O_AL_002.SEN3
• S3A_MW_CHDRAX_20000101T000000_20991231T235959_20151214T120000	MPC_O_AL_001.SEN3
• S3A_MW_CHDNAX_20160216T000000_20991231T235959_20161014T120000	MPC_O_AL_002.SEN3

## References

Sentinel-3 Mission Requirements Traceability Document (MRTD), C. Donlon, EOP-SM/2184/CD-cd, 2011.  
<https://sentinel.esa.int/documents/247904/1848151/Sentinel-3-Mission-Requirements-Traceability>

**End of the Product Notice**