

EnMAP processor change log

EnMAP processor version	Date	Description
01.00.01	08.04.2022	First processor version at launch.
01.01.00	11.07.2022	<ul style="list-style-type: none"> • Fixed matching for datatakes covering multiple UTM zones. • Fixed processing of scenes in antimeridian. • Fixed border effect due to adjacency correction in L2A land products. • Fixed bands filled with NaN in some L2A products.
01.01.01	10.08.2022	<ul style="list-style-type: none"> • Removed L2A quality rating from L0 overall quality rating.
01.01.09	30.09.2022	<ul style="list-style-type: none"> • Activated dehaze functionality in L2A processing.
01.01.11	24.11.2022	<ul style="list-style-type: none"> • Fixed units of L2A water products.
01.02.00	28.03.2023	<ul style="list-style-type: none"> • Improved co-registration accuracy. • Implemented interpolation of VNIR radiometric and RNU coefficients to reduce effect of VNIR degradation. • Implemented across-track destriping of L1B products. • Adapted spectral regions for interpolation in L2A processing. • Flag scenes with sun elevation angle of 0° or below (i.e., night scenes) as low quality.
01.03.00	02.05.2023	<ul style="list-style-type: none"> • Improved geolocation accuracy in along-track direction. • Prepared quality control configuration for update of EnMAP SWIR bands (active since 05.07.2023).
01.03.03	25.07.2023	<ul style="list-style-type: none"> • Filled gaps in DEM over Azerbaijan and Armenia. • Switched from MODIS to Copernicus for ozone and land surface temperature values used in L2A. • Fixed very high reflectances over snow in L2A products.
01.04.00	25.09.2023	<ul style="list-style-type: none"> • Re-activated adjacency correction over water in L2A water products (unintentionally de-activated in V01.01.11).
01.04.01	10.01.2024	<ul style="list-style-type: none"> • Fixed peaks in snow spectra at 590 nm and 647 nm in L2A products.
01.04.02	15.03.2024	<ul style="list-style-type: none"> • Fixed spectral noise in water spectra below 500 nm in L2A water products.
01.05.00	09.09.2024	<ul style="list-style-type: none"> • Writing new metadata entries viewingAzimuthAngle and viewingZenithAngle. • Fixed adjacency correction around clouds in L2A products. • Implemented SWIR dark signal correction at L1B level (active since 18.11.2024).
01.05.02	03.12.2024	<ul style="list-style-type: none"> • Taking the water vapor of adjacent tiles into account for the selection of radiative transfer LUTs. This should result in less inconsistencies between neighboring L2A tiles from the same datatake.

		<ul style="list-style-type: none"> • Fixed the influence of the scene's border on the adjacency correction.
01.05.05	05.11.2025	<ul style="list-style-type: none"> • L2A atmospheric correction over water update (water quality rating and height dependency). • L2A improvements in regions around cirrus (fix for aura effects). • Fixed WV, VIS and SZA criterion for overall atmospheric quality. • Fixed adjacency correction around saturated pixels in L2A products. • Treat visibility of neighboring tiles consistently in WV regions in L2A products. • Adapted path radiance rescaling, including an adjacency correction, in L2A products.
01.05.06	10.02.2026	<ul style="list-style-type: none"> • Fixed creation of black L2A products under certain (rare) conditions. • Switched the entries for scene azimuth and zenith angles for the lower corners in the metadata files for Lx products (they are now all in clock-wise order).

Notes:

- Processor versions not explicitly mentioned in the table contained only minor updates or bug fixes not relevant for data quality.
- More details about each software update can be found in the Mission Quarterly Reports in <https://www.enmap.org/mission/>.