

Modification history Pymagra

Version 25.6.2

- 16/06/2025 Modify config file, (use “v” and “h” instead of “0” and “1”). Both versions are still supported.
Actualize dialogues if config file does not exist.
Update manual
- 15/06/2025 Replace matplotlib “collections” by “get_path” for compatibility with version 3.10
Protect color scale against too strong clipping
Correct problem in Spector&Grant 1D calculation if spectrum too smooth (after upward continuation).
Output of inversion parameters at beginning of process
Config file after synthetic calculations corrected
Correct error in “plot original”

Version 25.6.1

- 11/06/2025 Add oral tutorials.
- 02/06/2025 Errors in 3D inversion with 2 sensors corrected.

Version 25.5.1

- 27/05/2025 Modify inversion of analytic signal, make half-width for search of maximum user defined, change size of measurement point markers
- 01/05/2025 When changing data file don't ask if only two files exist. Correct file names in Spector1D. Correct heights in synthetic model.
- 30/04/2025 Correct error when interpolating after having joined two data blocks

Version 25.4.1

- 23/04/2025 Correction sign error in 2.5D inversion, add plotting of data point positions, change color scale for synthetic data.
- 22/04/2025 Correction of parameter variability vs depth calculation, save synthetic model results into folder “direct...”
- 21/04/2025 Correction for reading single-sensor Geometrics *.stn data.
- 19/04/2025 Solved issue with closing floating windows
- 16/04/2025 After every iteration, the average parameters of the initial layers are set to zero or the minimum is set to near zero if positivity constraint is activated.

Version 25.3.2

- 10/03/2025 Corrections gravity inversion

Version 25.3.1

- 09/03/2025 Corrections 2.5D inversion with and without topography.
- 21/02/2025 Correction of mistake in interpolation if less than 3 points exist

19/02/2025	Corrections for aeromagnetic data format
15/02/2025	Integration of topography in inversion
03/02/2025	Plot misfit evolution for 2.5D inversion; corrections in 2.5D inversion if nans are present; choice to fill holes or not during interpolation.
16/01/2025	Correction of line choice when coordinate system in km: correction of apparent field declination when choosing E-W lines.
09/12/2024	Integration of positivity constraint for inversion
02/12/2024	Close windows when single lines were modified; correct error in diurnal corrections when data contain Nones;
20/11/2024	Restructure files for relative package import and for installation with pip, upload wheel to PyPi; Modify manual correspondingly. Change version numbering to yy.mm.version_of_month (yy = year, mm=month)