Gradient-boosted equivalent sources for gridding large gravity and magnetic datasets **The Solution: Gradient boosting Equivalent Sources** grid points Select & fit data and sources Start with data and eq. sources * * * * * * * * in window #1 data points sources Predict on all points and Calculate residuals fit the step-size coefficient Elevation Harmonic **The Problem** 200 000 data Select & fit residuals and sources Predict on all points, fit step-size, X 200 000 sources and update residuals in window #2 666 **300GB RAM**



Read the preprint: doi: 10.31223/X58G7C



Feel free to take screenshots



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Interpolating Australia Gravity Data

+1.7 million data points <10GB RAM

Section of the original data



Section of the Interpolated grid

