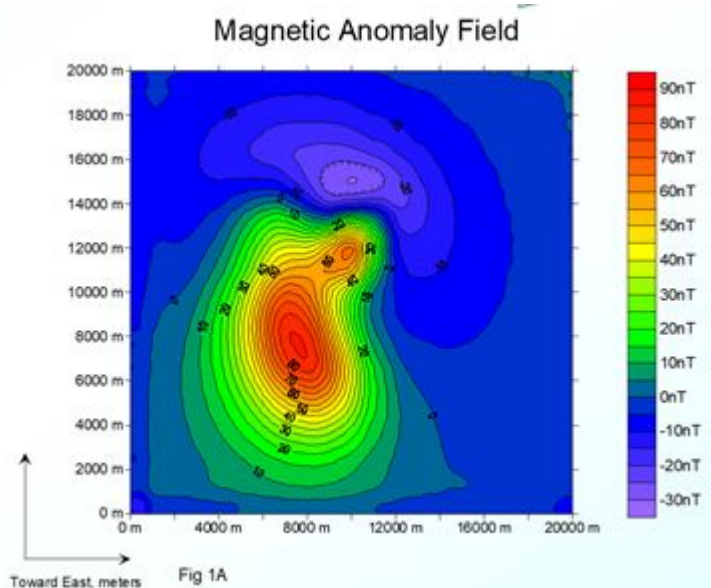
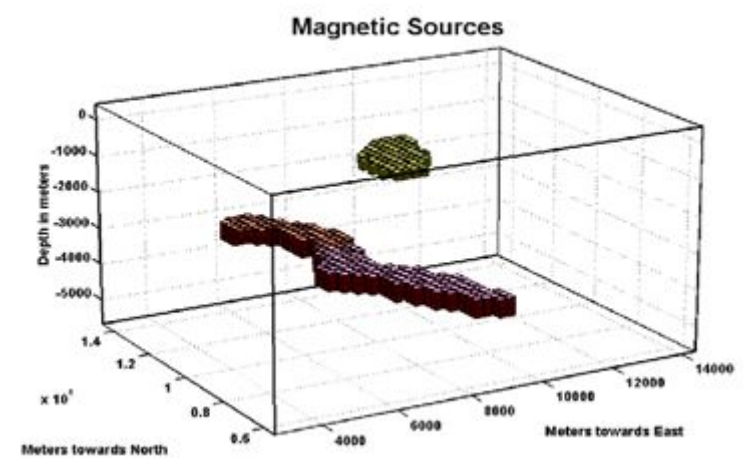


Magnetic sources depth estimation by means of deep learning

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Topic

- Target: Get information about crustal magnetic field sources (location, geometry, magnetic properties) by means of A.I.



Problems

- Bodies with magnetic properties located under the ground generate magnetic fields
- Some of such bodies properties can be determined by Earth magnetic field measurements
- Most of the times the problem is too undetermined by using traditional mathematic algorithms

Objectives

- Develop deep networks able to recognize relevant features into magnetic data patterns to estimate magnetic sources parameters (location, geometry, magnetization)
- Use synthetic fields to train neural networks
- Apply the trained networks to real fields
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