ilk_inv MANUAL

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HOW TO RUN

Computer Code Availability

Name of the code/library: ilk_inv

Contact: ilkin.ozsoz@mta.gov.tr

Program language: MATLAB

Software required: MATLAB 2019a or above / MATLAB

Runtime 2019a

Program size: 31 kb

The source codes are available for download at the link:

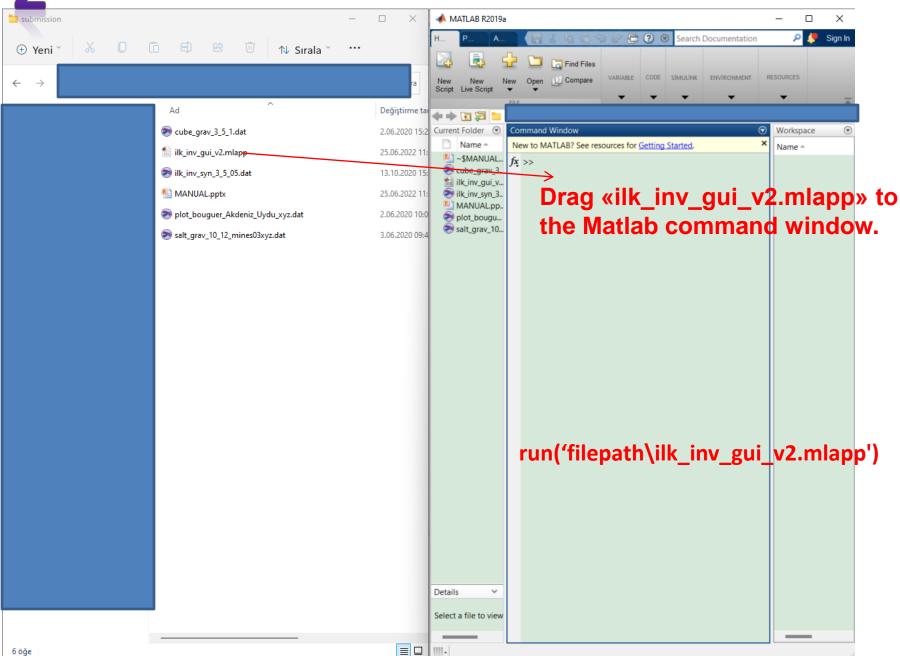
https://github.com/ikzsz/ilk_inv

HOW TO RUN There are 3 ways only choose one of them. Do not try to apply all of them

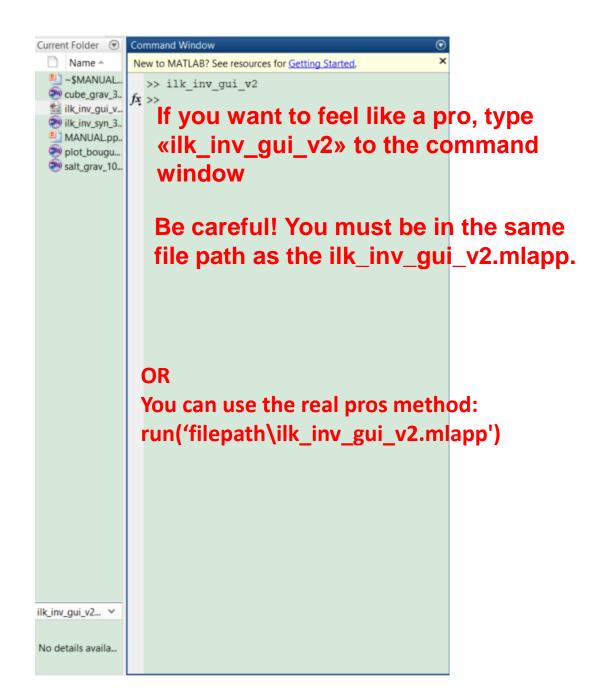
| sube_grav_3_5_1.dat | 2.06.2020 15:22 | DAT Dosyası | 1.602 KB |
|-------------------------------------|-------------------|------------------------|----------|
| 1 ilk_inv_gui_v2.mlapp Double-click | on²ilk²ºä'nv² gui | _v2.mlapp | 31 KB |
| llk_inv_syn_3_5_05.dat | 13.10.2020 15:22 | DAT Dosyası | 400 KB |
| MANUAL.pptx | 25.06.2022 11:46 | Microsoft PowerPoint P | 2.172 KB |
| nlot_bouguer_Akdeniz_Uydu_xyz.dat | 2.06.2020 10:05 | DAT Dosyası | 470 KB |
| salt_grav_10_12_mines03xyz.dat | 3.06.2020 09:49 | DAT Dosyası | 1.620 KB |
| | | | |
| | | | |

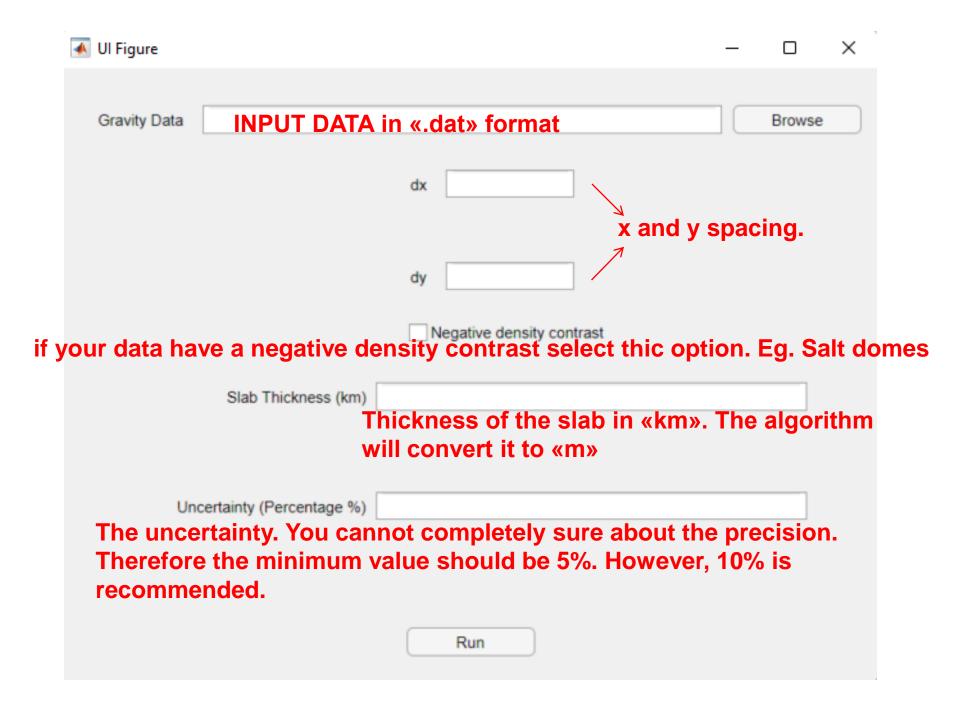
2

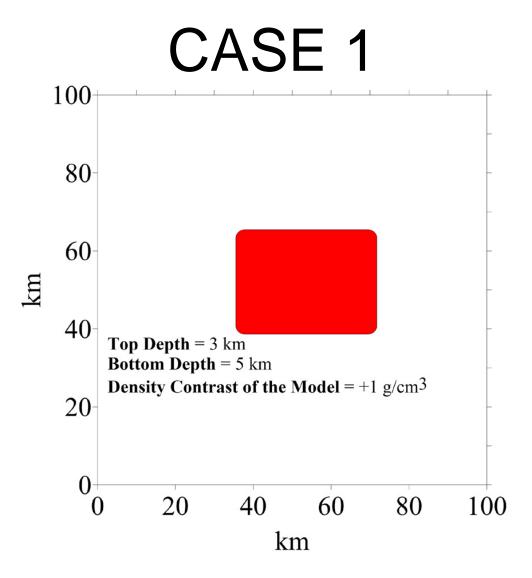
HOW TO RUN





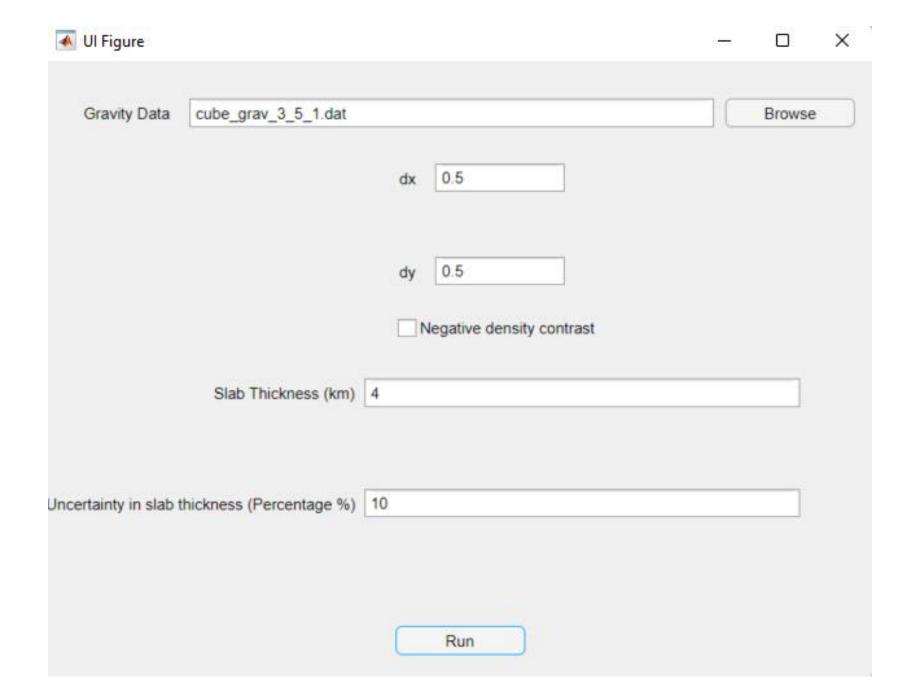


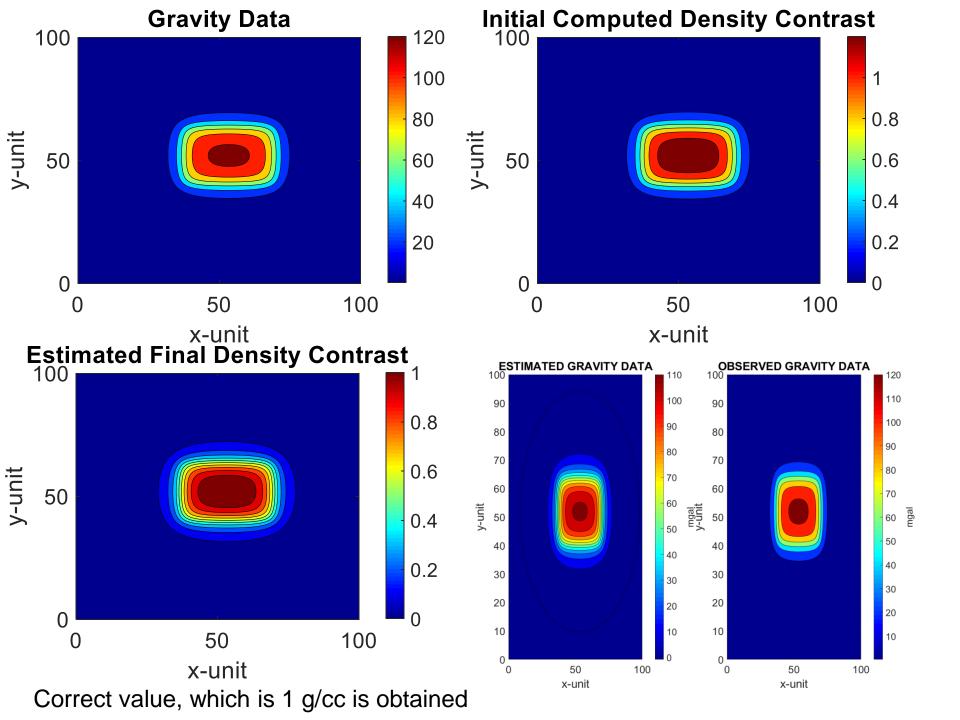




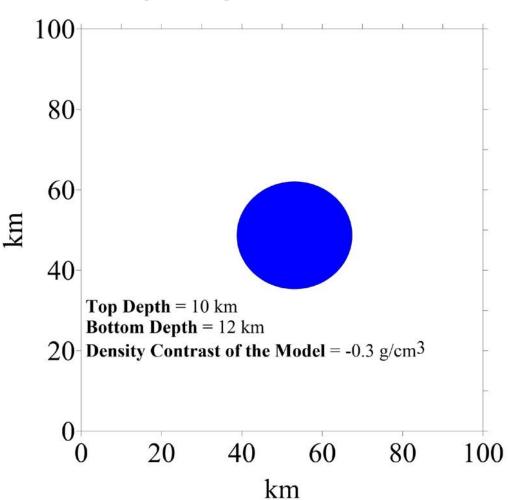
From: Ilk_inv: a Matlab based algorithm for rapid computation of pseudo-3D density contrast distribution by using Bouguer gravity data

Filename: cube_grav_3_5_1.dat



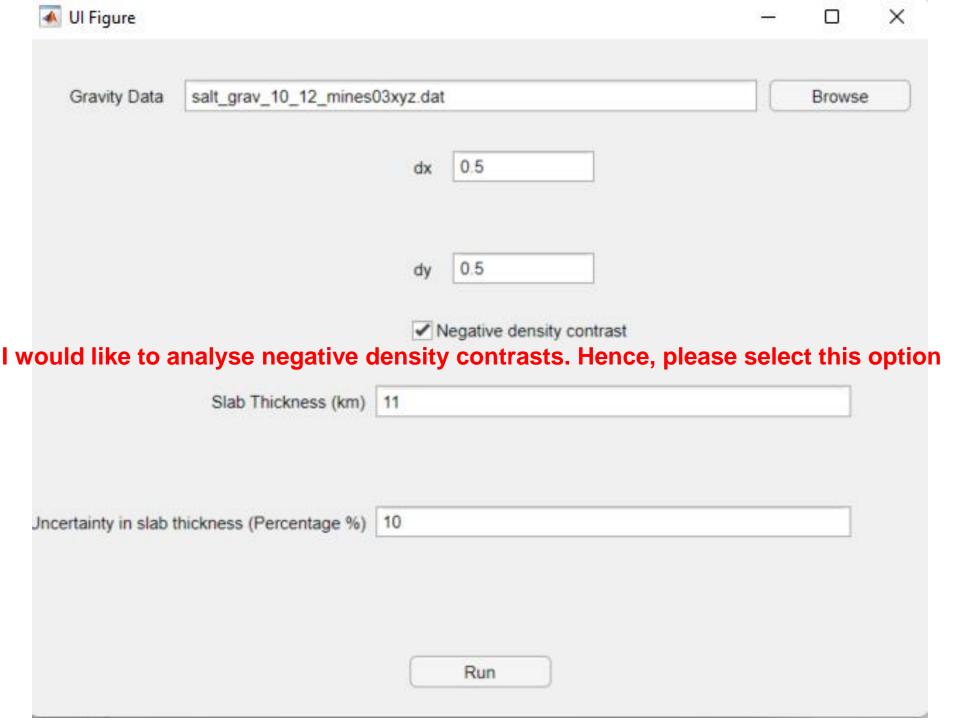


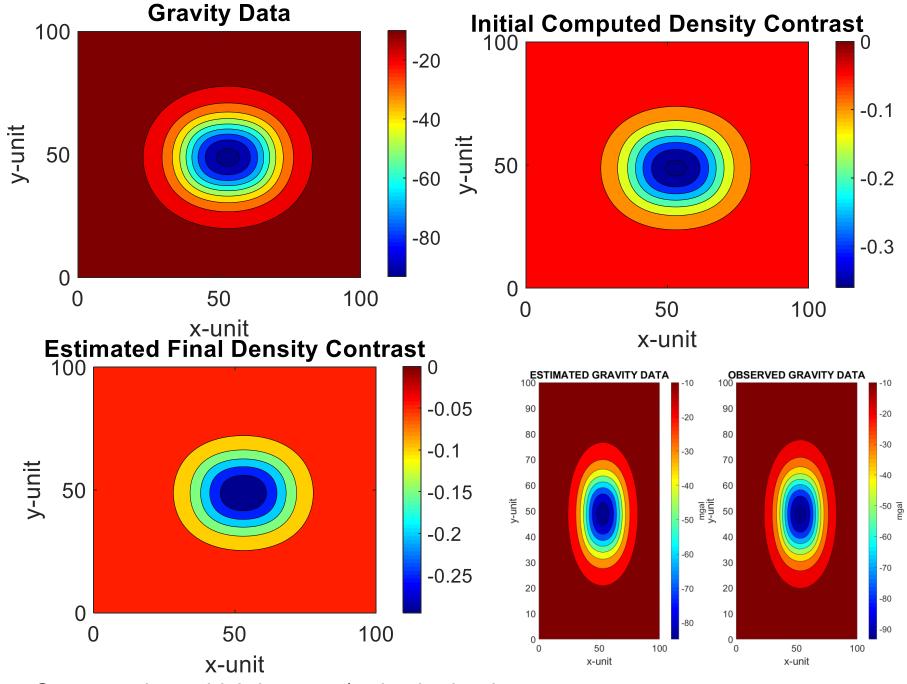
CASE 2



From: Ilk_inv: a Matlab based algorithm for rapid computation of pseudo-3D density contrast distribution by using Bouguer gravity data

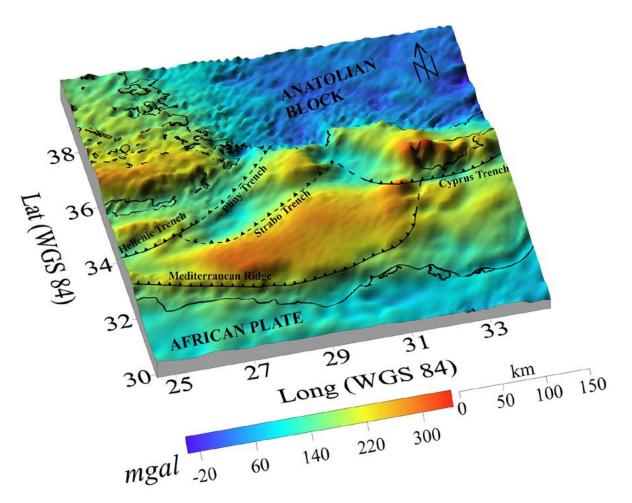
Filename: salt_grav_10_12_mines03xyz.dat





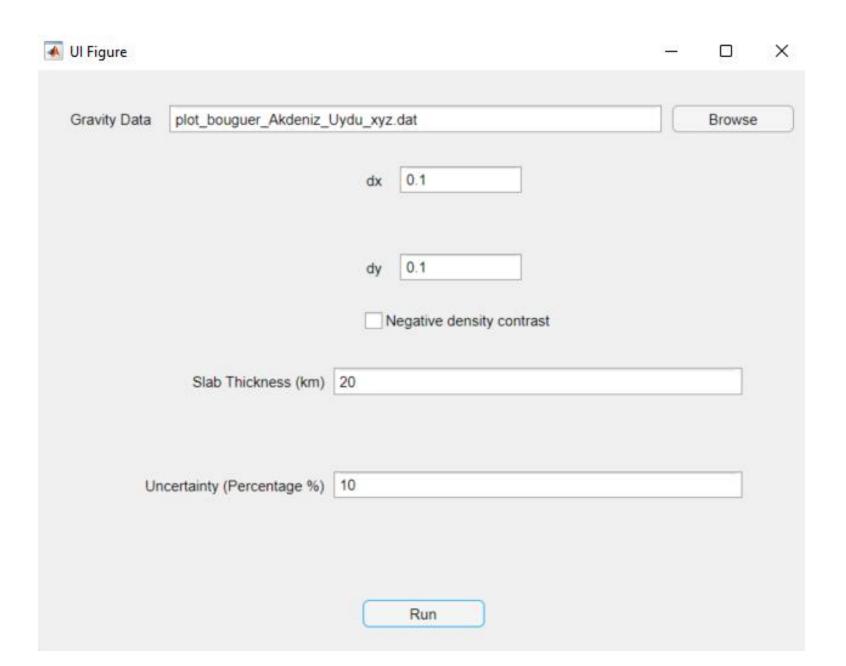
Correct value, which is -0.3 g/cc is obtained

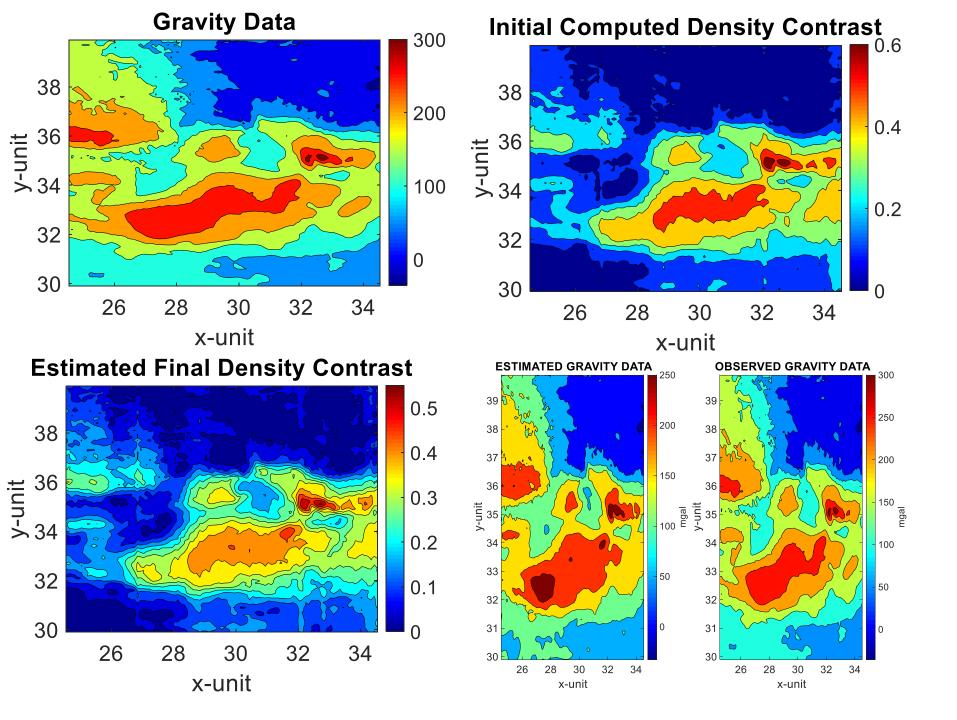
CASE 3



From: Ilk_inv: a Matlab based algorithm for rapid computation of pseudo-3D density contrast distribution by using Bouguer gravity data

Filename: plot_bouguer_Akdeniz_Uydu_xyz.dat





NOTES

- The uncertainty value should be higher than 0. If it is selected «0», the algorithm will not run.
- In general 10% uncertainty produces the best result.
- If you have further questions and recommendations, feel free to contact.

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