

# Inversion of the secret model data set

code: WSINN3DMT by Weerachai Siripunvaraporn

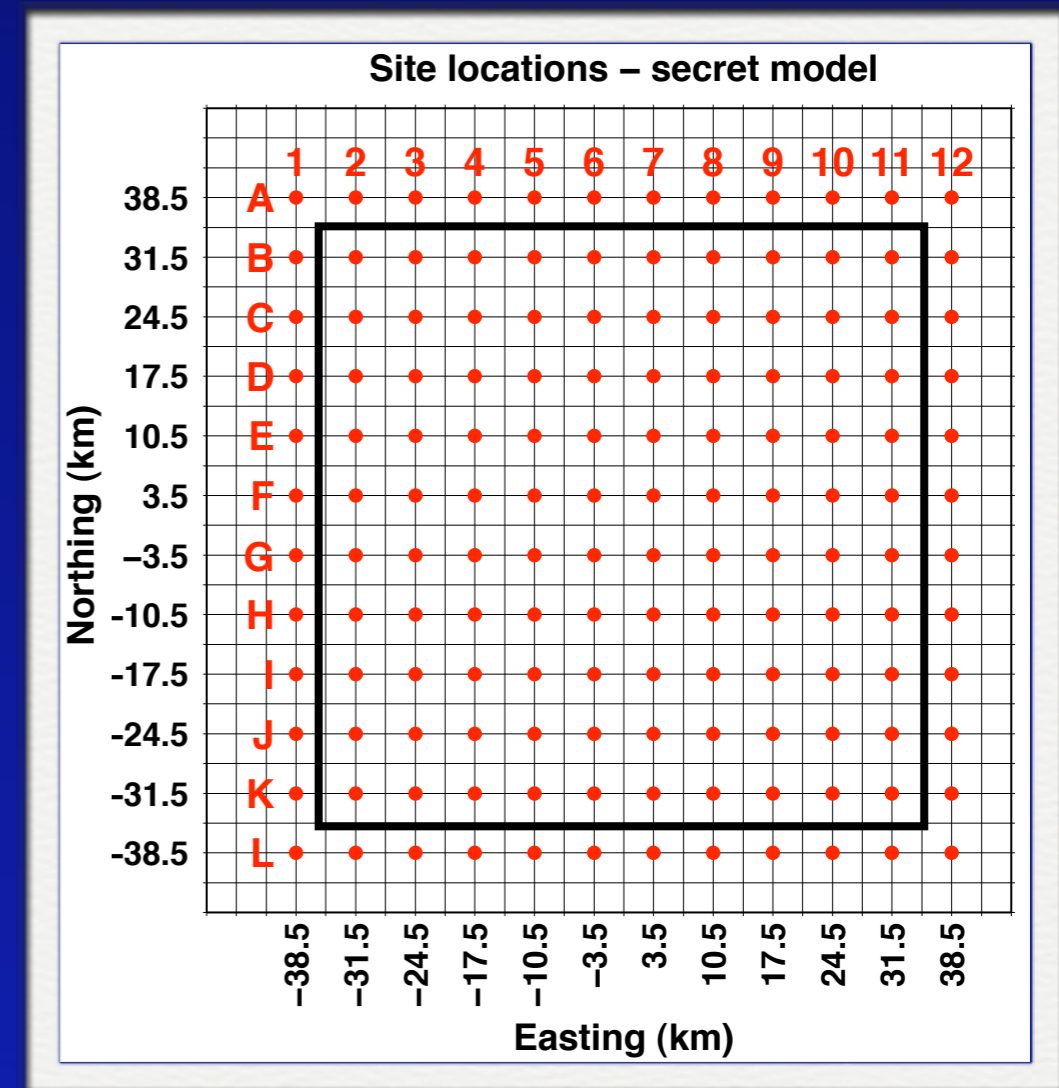
user: Marion Miensopust

# Data set used

- no data analysis nor decomposition nor dimensionality check
- sites moved to cell centre (500 m)
- all 8 elements used

# Data set used

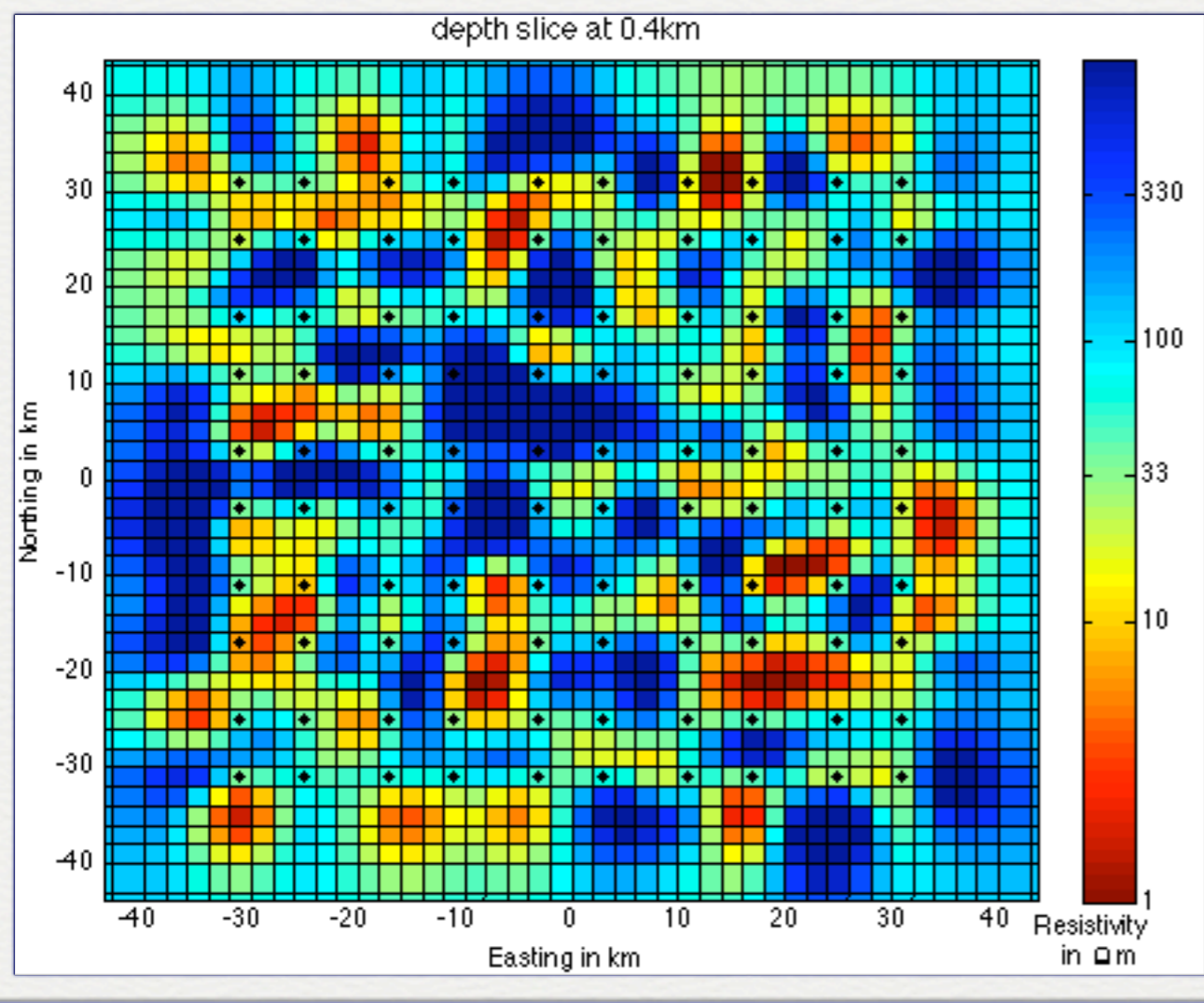
- no data analysis nor decomposition nor dimensionality check
- sites moved to cell centre (500 m)
- all 8 elements used
- reduced number of data:
  - only 100 out of the 144 sites were used
  - only every second period (15 periods)



# Model and inversion settings used

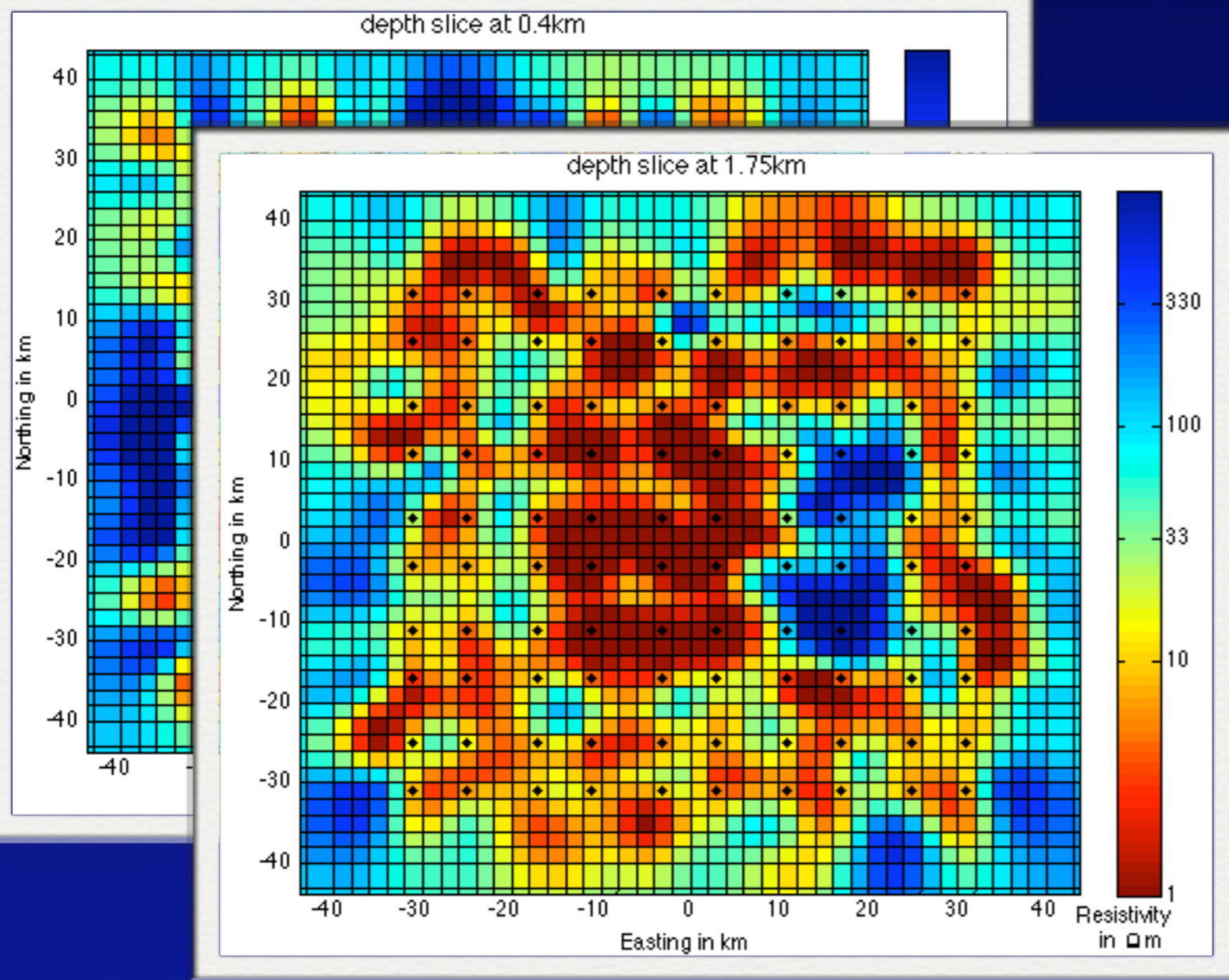
- starting model: 100  $\Omega\text{m}$  halfspace
- 64 x 64 x 33 cells  $\rightarrow$  approx. 17 GB memory
- cells size in centre: 2 km x 2 km x 50 m  
(vertical extent increasing with depth)
- mesh size 1200 km x 1200 km x 850 km
- inversion settings: target RMS 1, max. number of iterations 10, all other parameters set to default
- serial version of WSINV3DMT
- linux (CentOS) server, 64-bit, 48 GB memory, 2x6-core 3.33GHz Intel processors
- computation time: long

# Intermediate Inversion Result



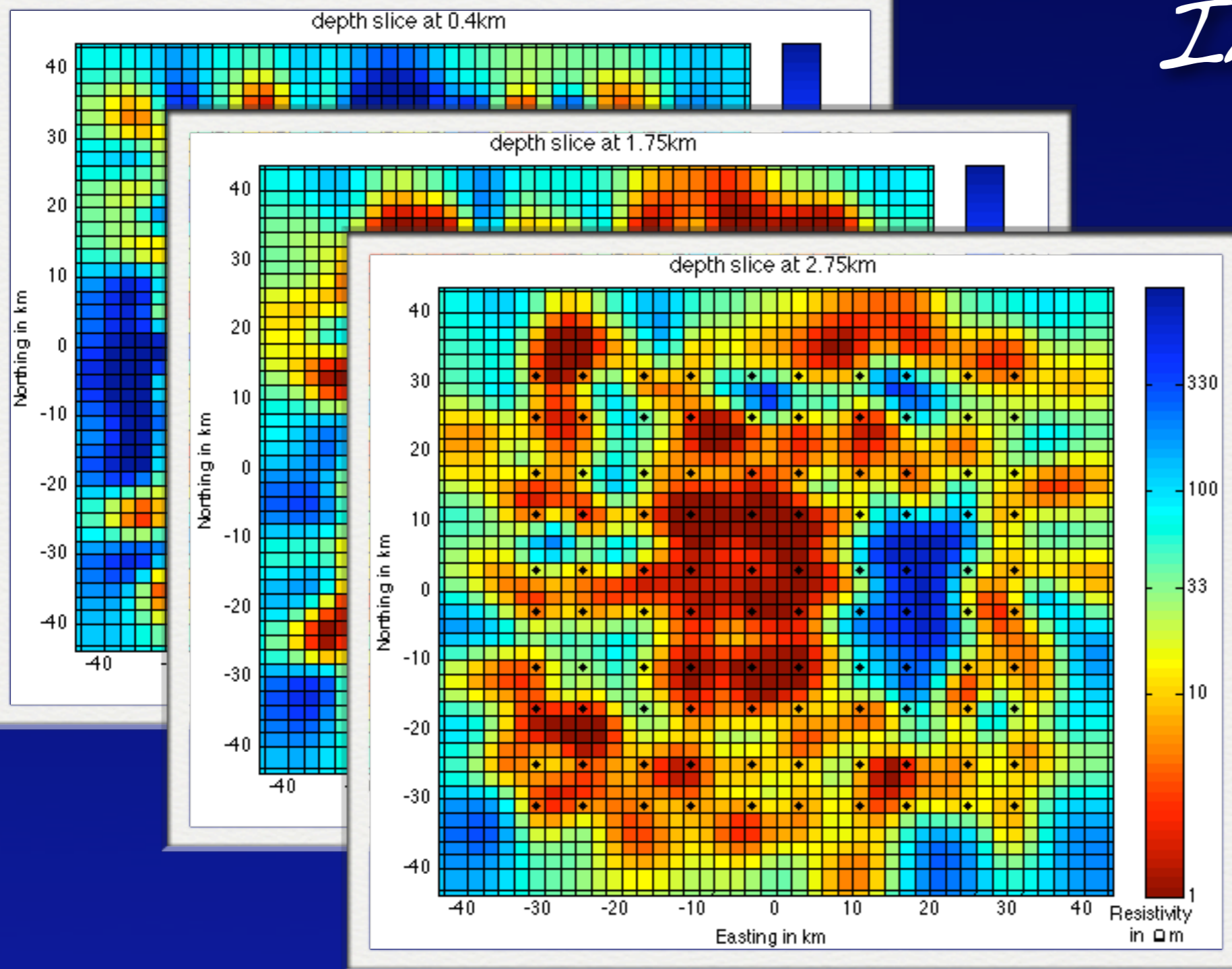
- 4 iterations
- RMS 4.9331
- Exceed number of iterations

# Intermediate Inversion Result



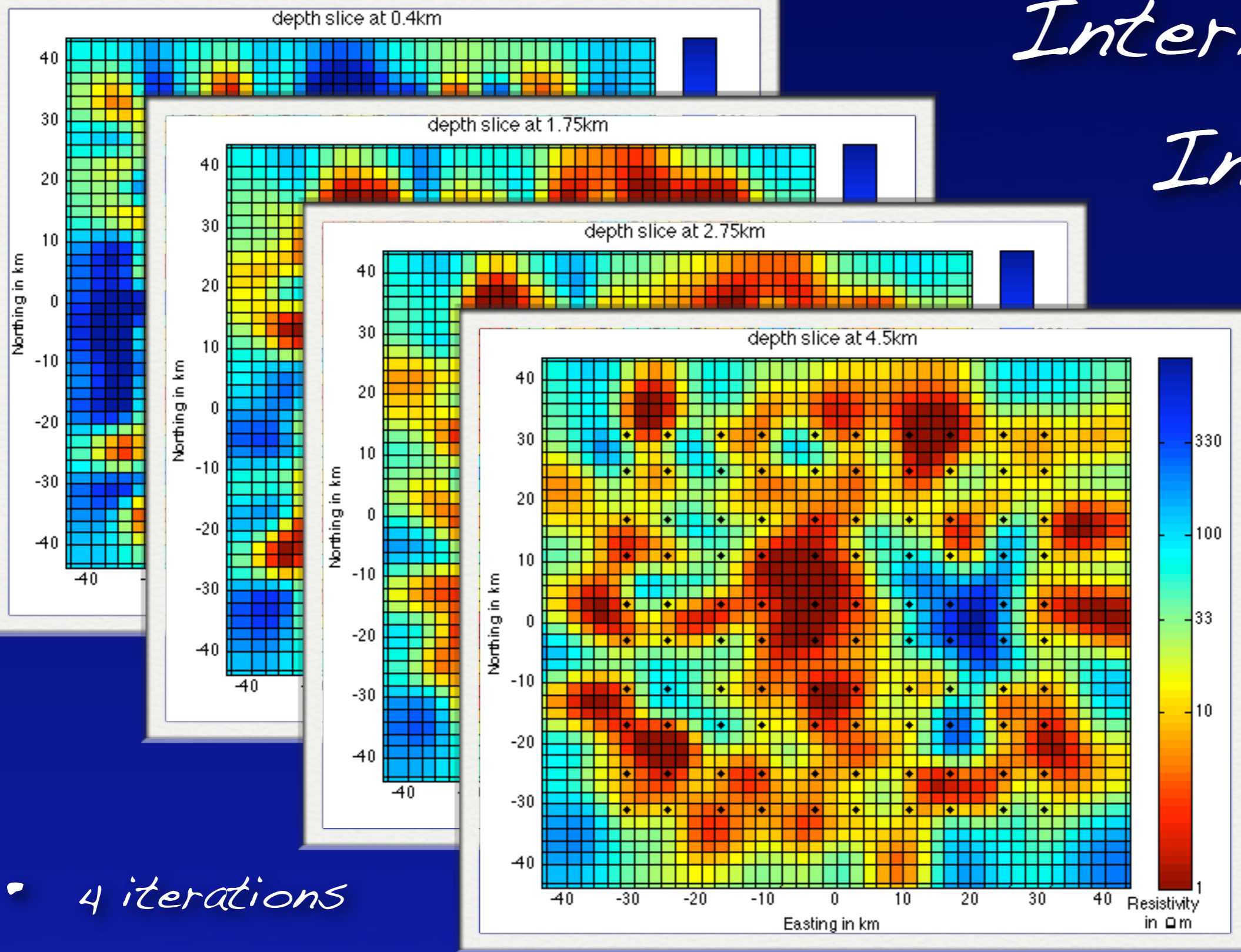
- 4 iterations
- RMS 4.9331
- Exceed number of iterations

# Intermediate Inversion Result



- 4 iterations
- RMS 4.9331
- Exceed number of iterations

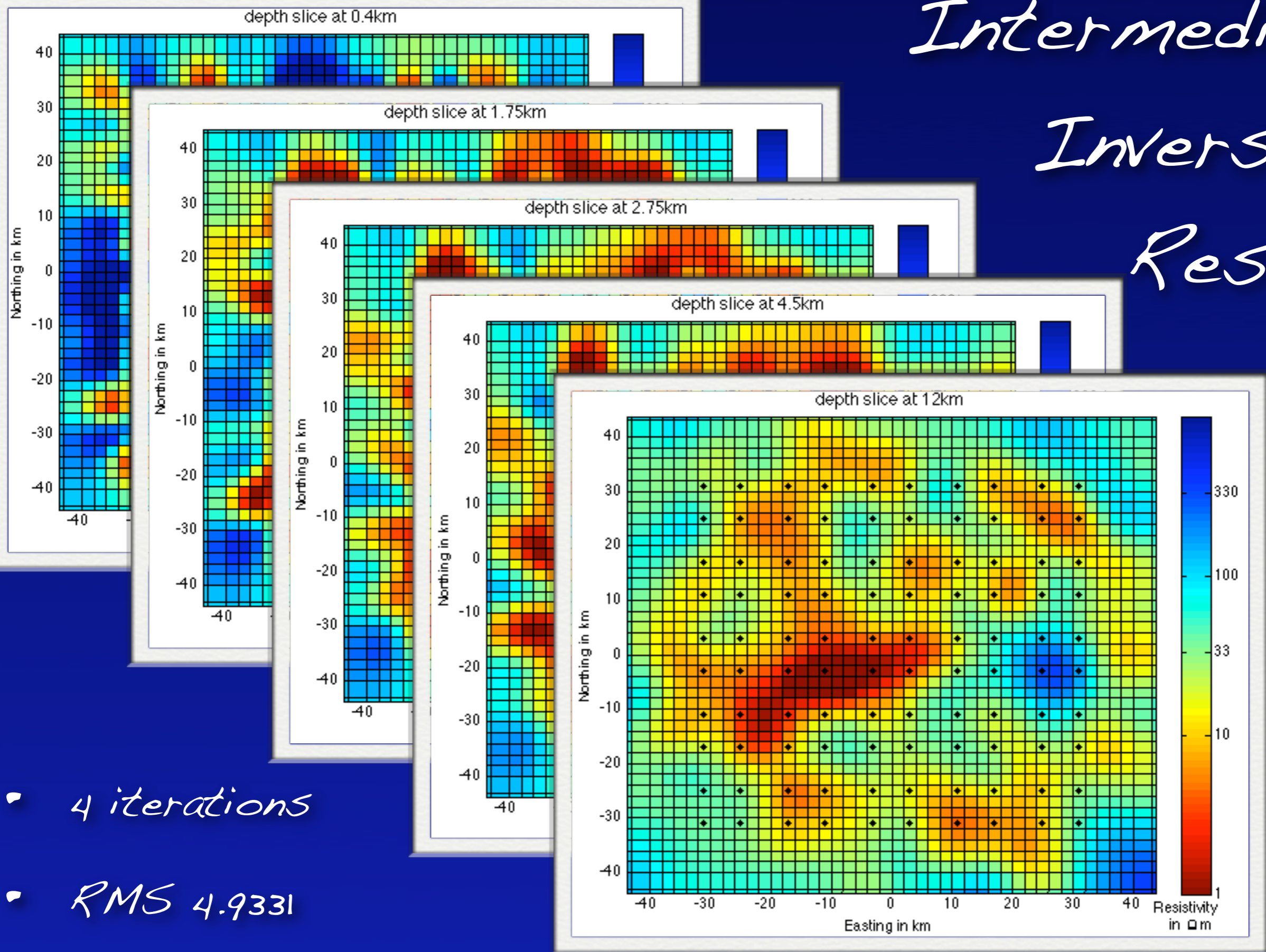
# Intermediate Inversion Result



- 4 iterations
- RMS 4.9331
- Exceed number of iterations

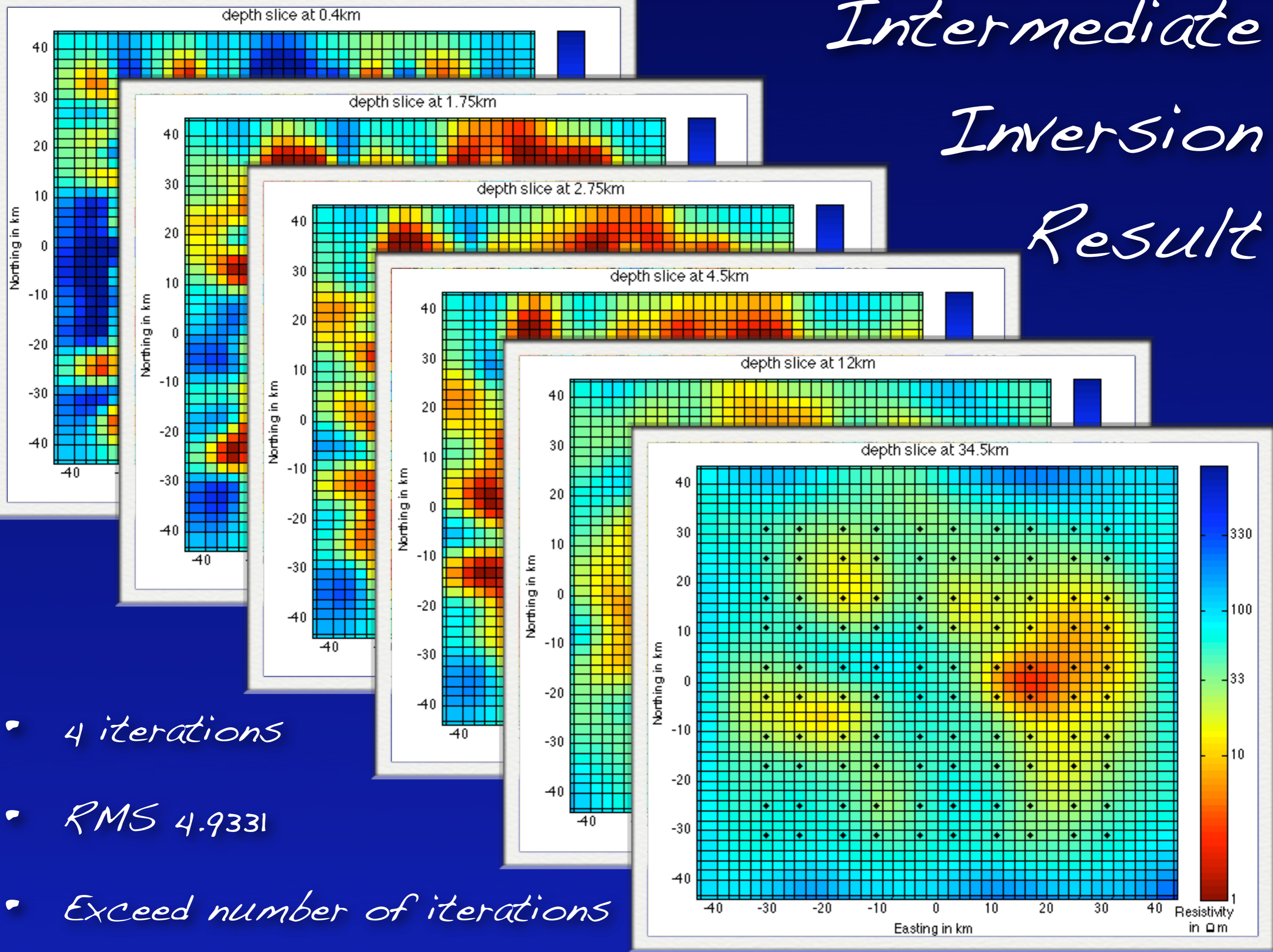


# Intermediate Inversion Result



- 4 iterations
- RMS 4.9331
- Exceed number of iterations

# Intermediate Inversion Result



- 4 iterations
- RMS 4.9331
- Exceed number of iterations