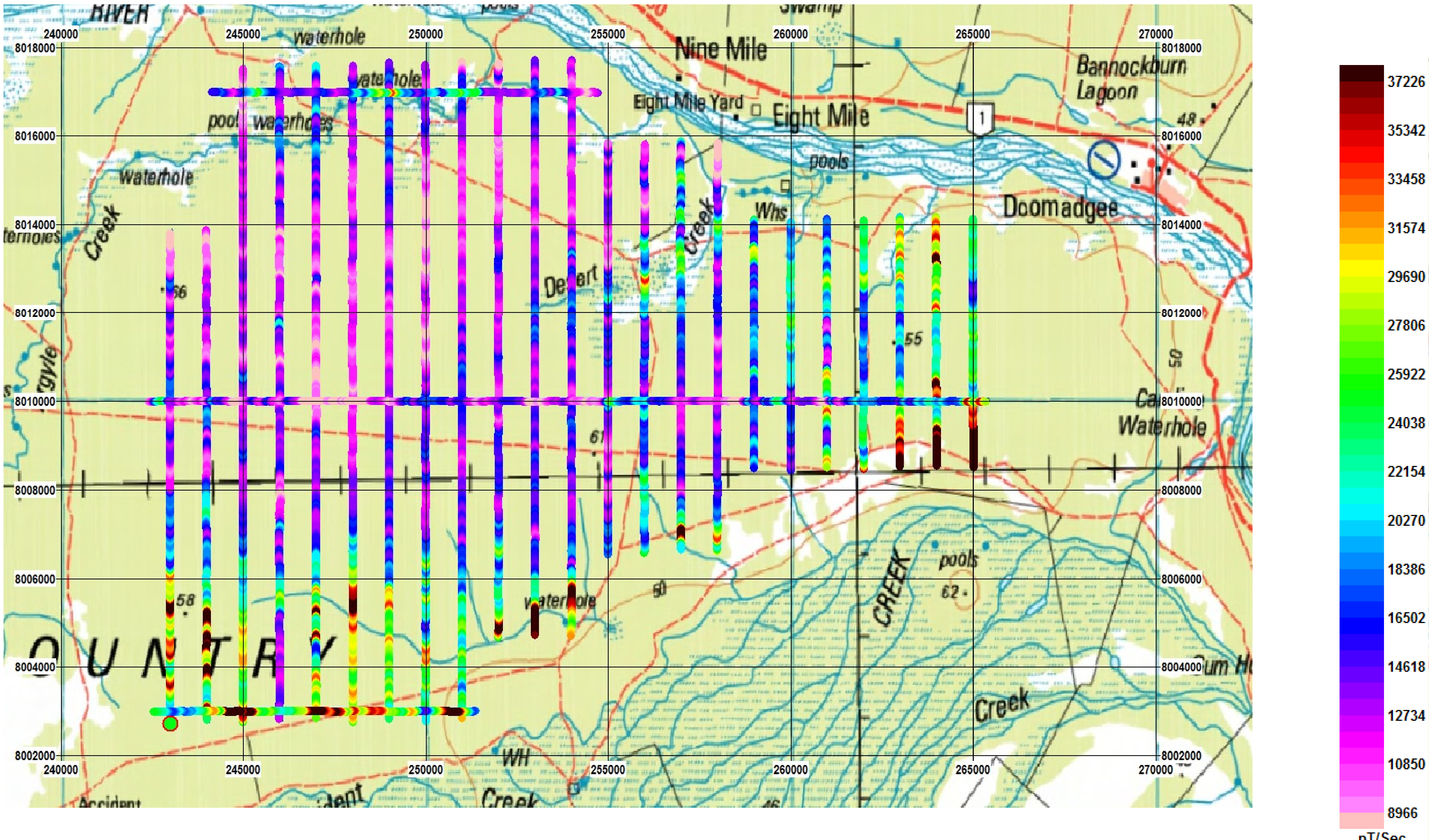
2011 VTEM Inversion Studies

LAWN HILL BLOCK 1

OCTOBER 2011

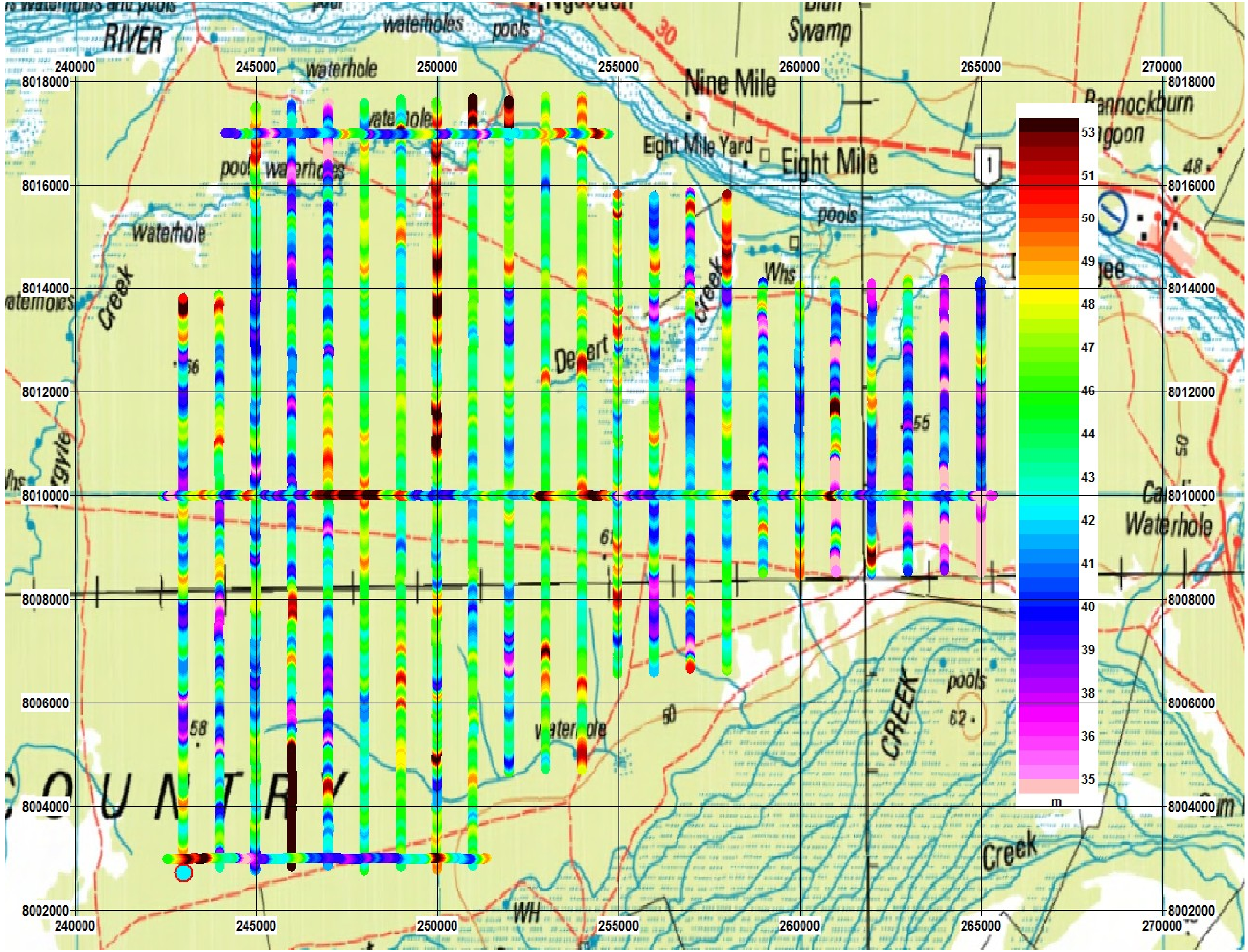
Petros Eikon Inc.

Lawn Hill Block 1



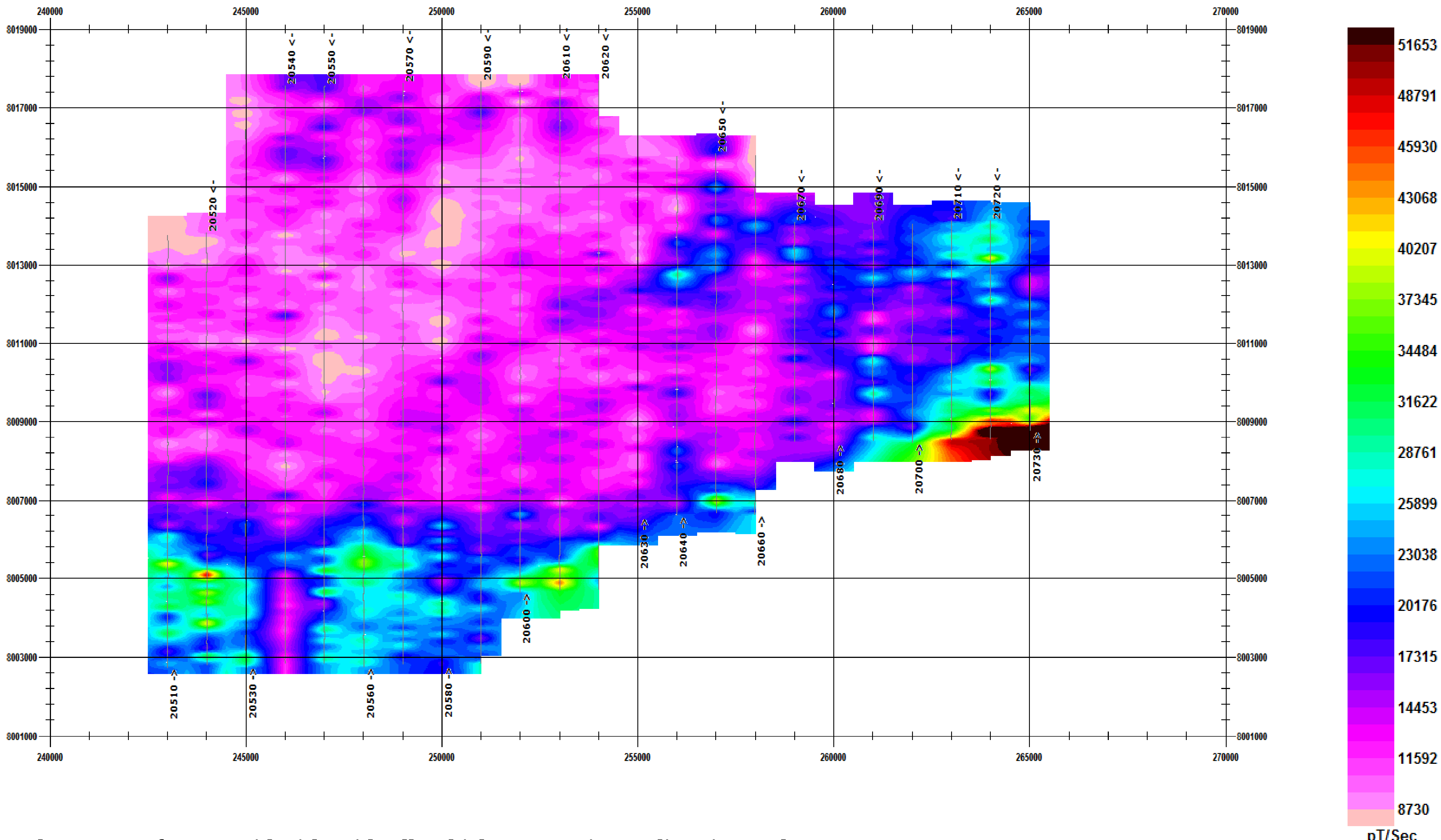
Channel 6 Hz displayed (.167 msec).

Lawn Hill Block 1



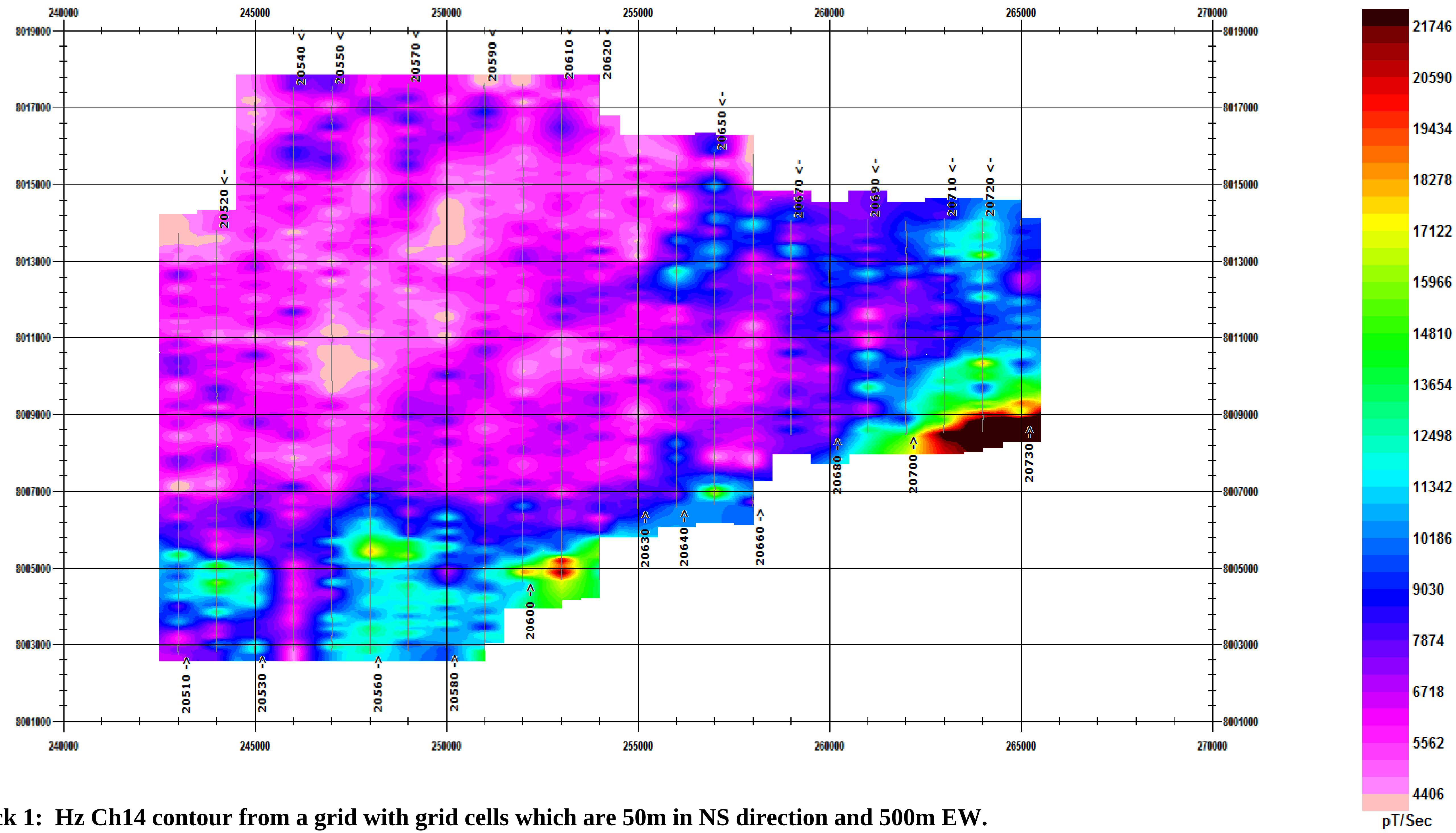
Bird Height.

Lawn Hill Block 1



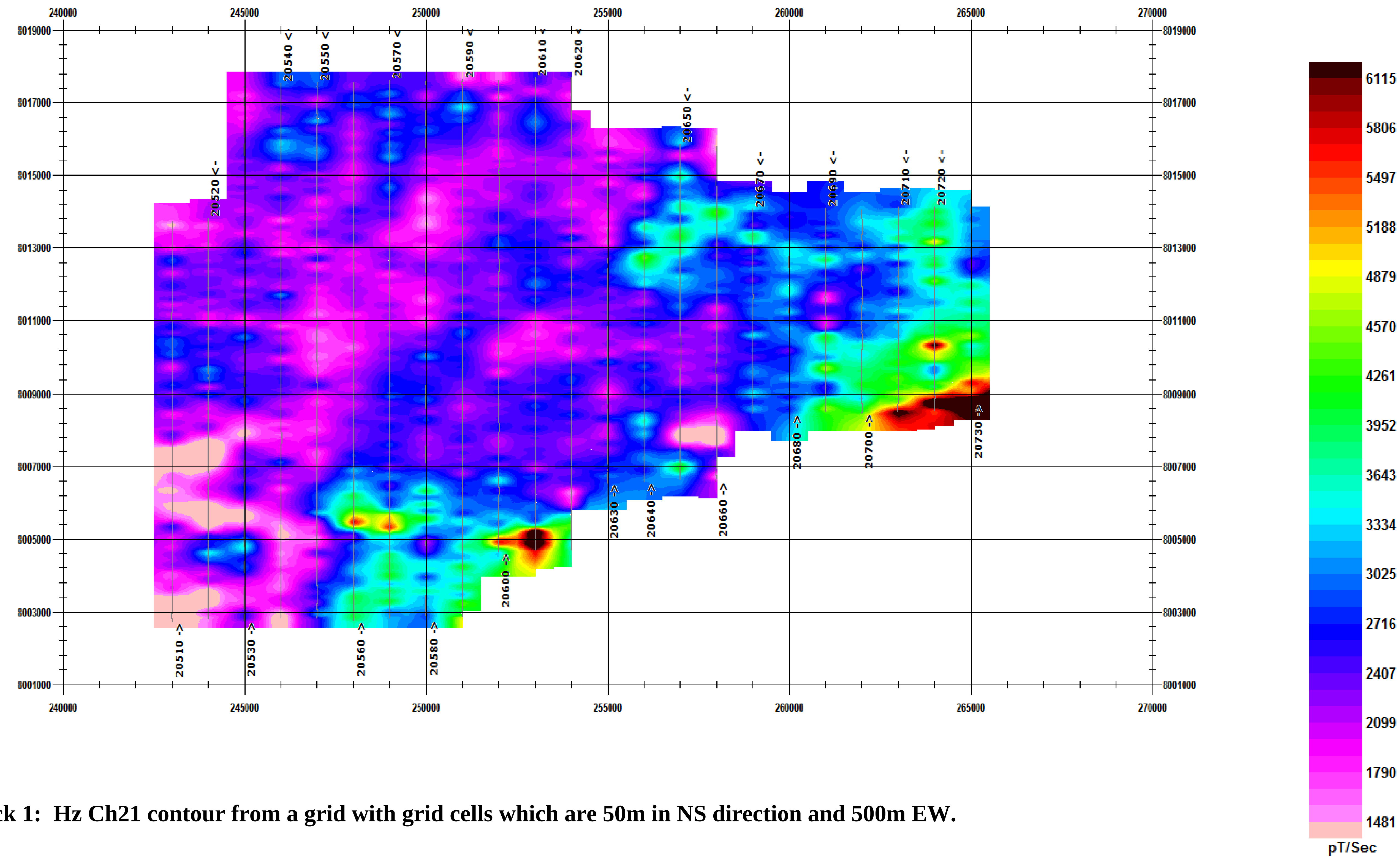
Block 1: Hz Ch7 contour from a grid with grid cells which are 50m in NS direction and 500m EW.

Lawn Hill Block 1



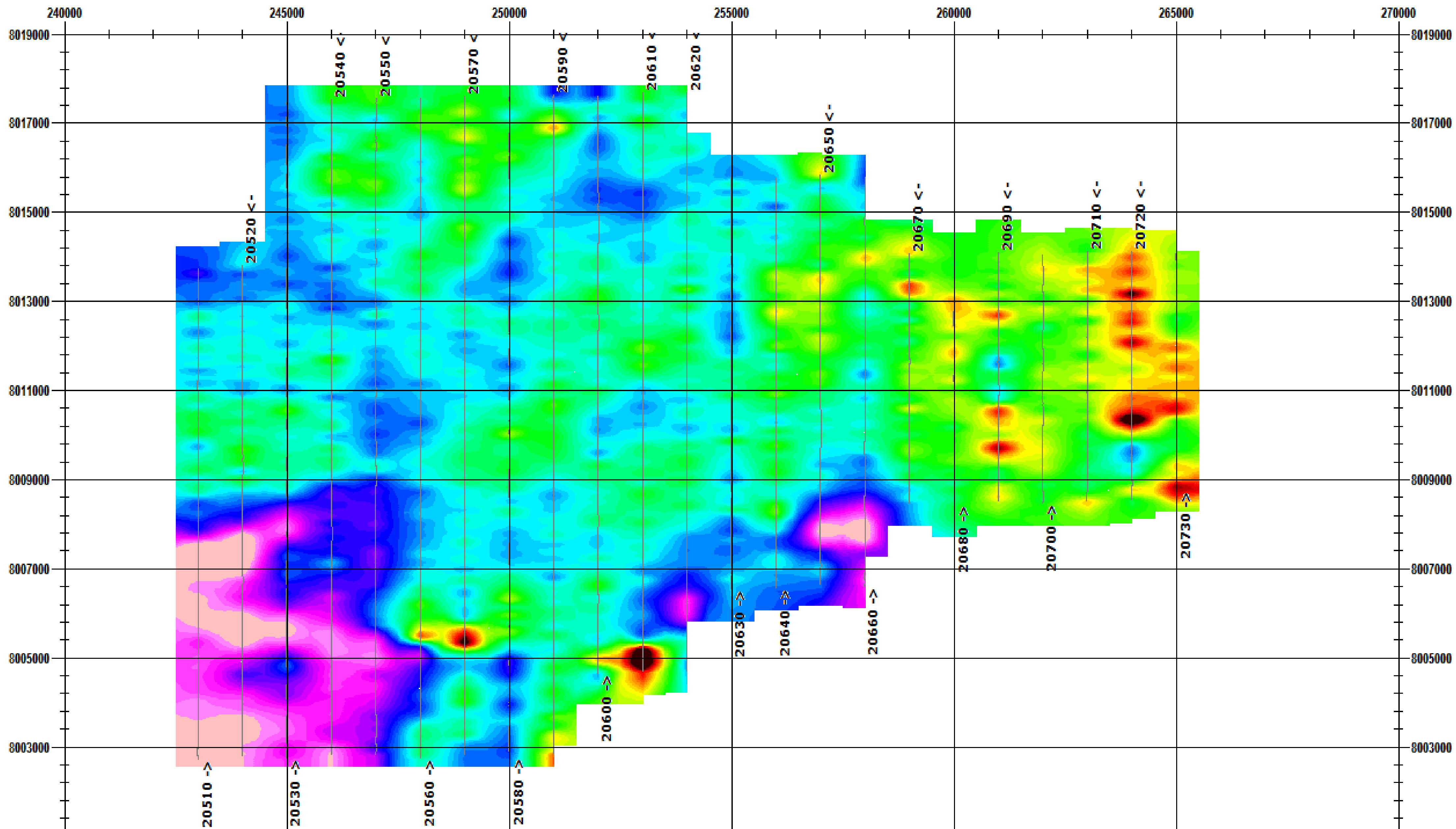
Block 1: Hz Ch14 contour from a grid with grid cells which are 50m in NS direction and 500m EW. Difficult to differentiate between Ch7 and Ch14 except for the actual values.

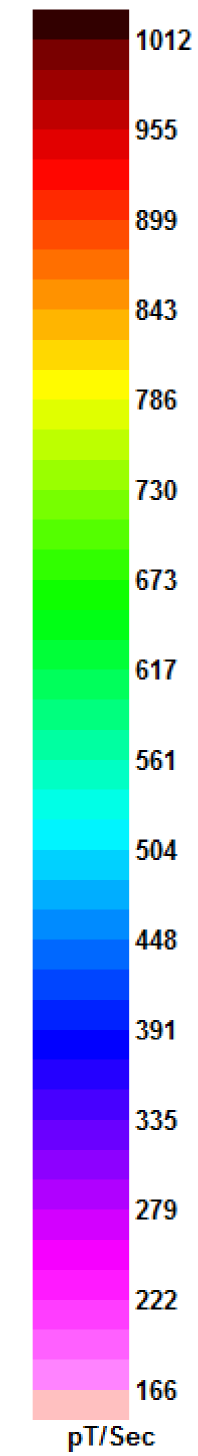
Lawn Hill Block 1



Block 1: Hz Ch21 contour from a grid with grid cells which are 50m in NS direction and 500m EW.

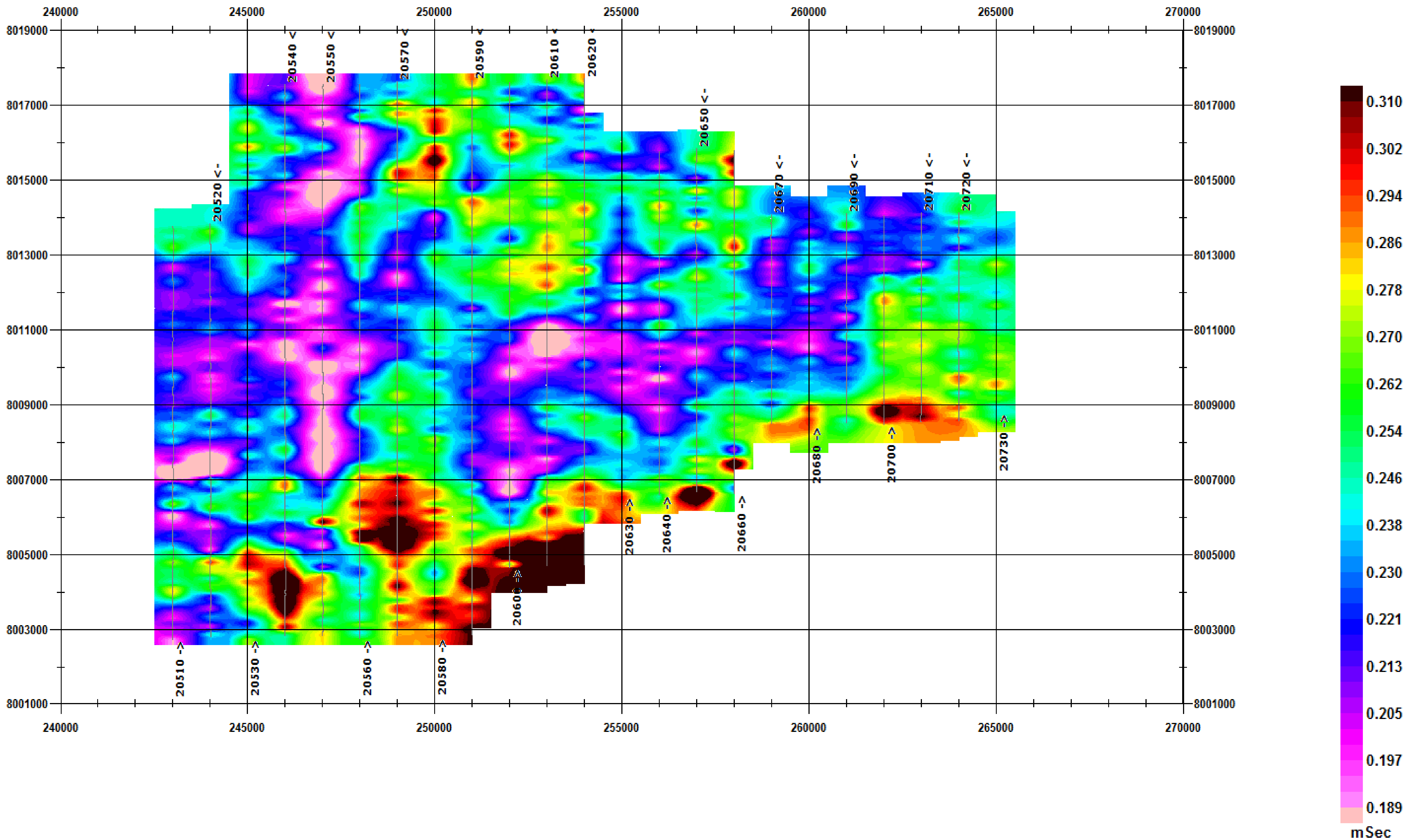
Lawn Hill Block 1





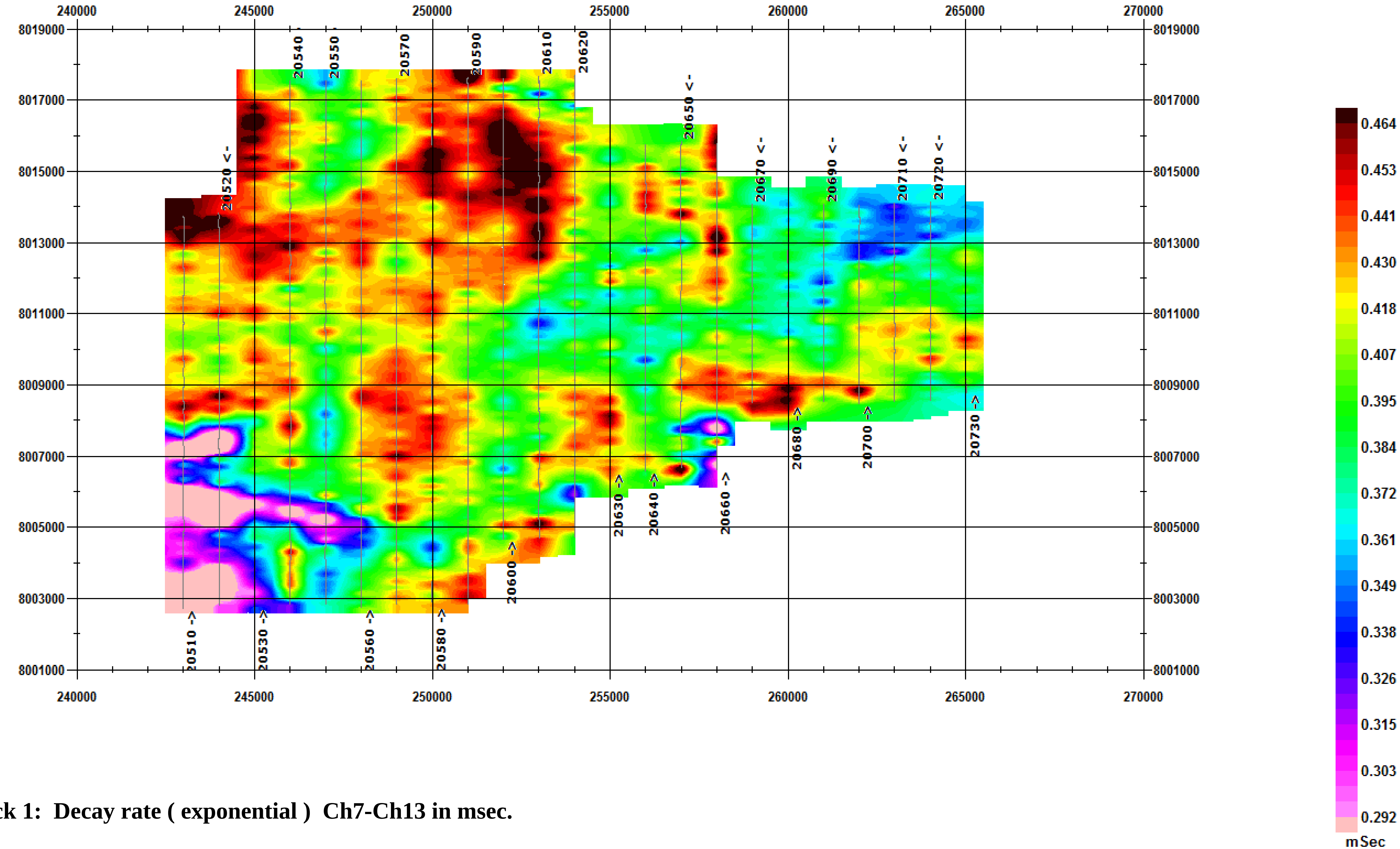
Block 1: Hz Ch28 contour from a grid with grid cells which are 50m in NS direction and 500m EW.

Lawn Hill Block 1



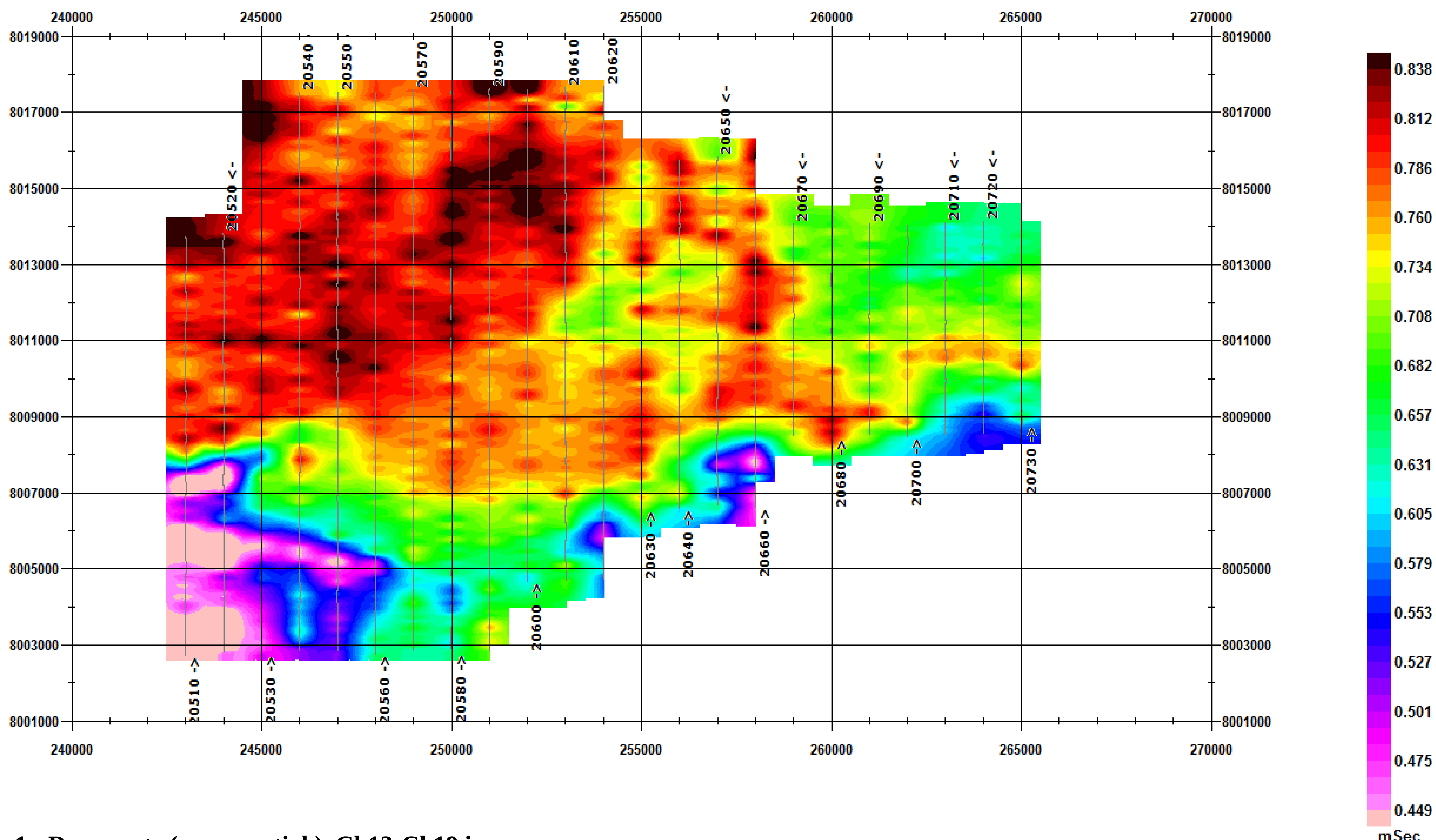
Block 1: Decay rate (exponential) Ch3-Ch9 in msec.

Lawn Hill Block 1



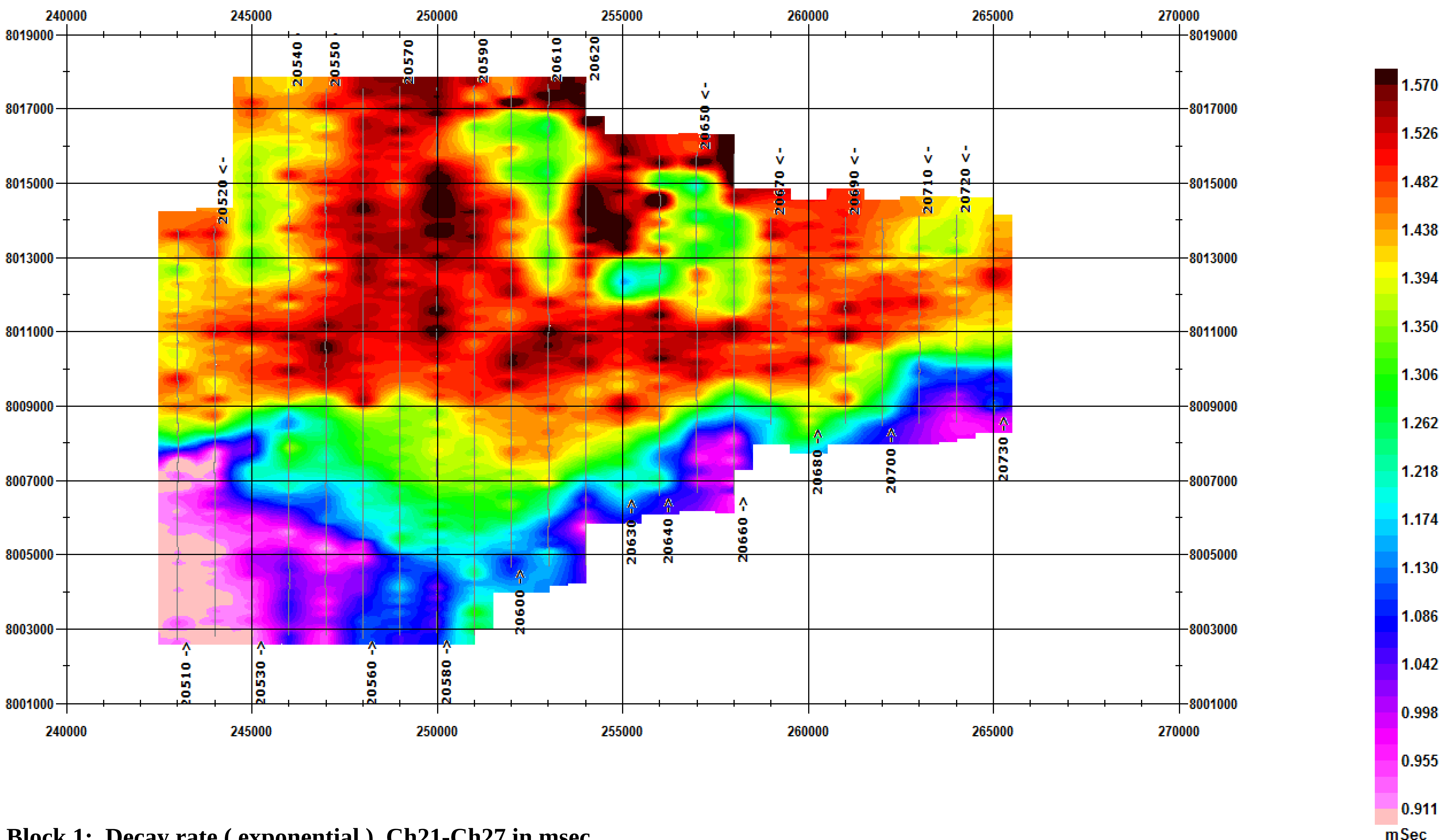
Block 1: Decay rate (exponential) Ch7-Ch13 in msec.

Lawn Hill Block 1



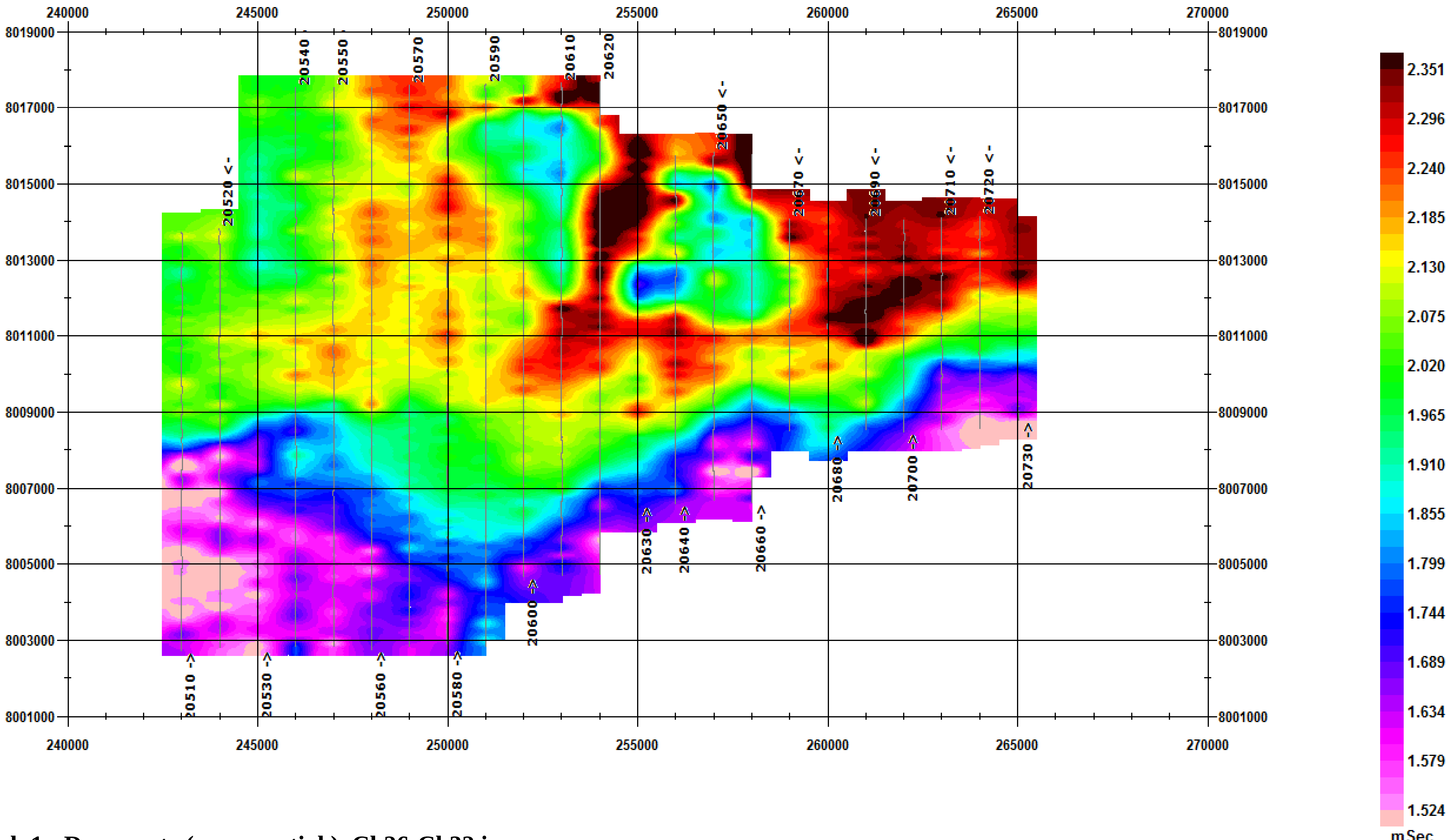
Block 1: Decay rate (exponential) Ch13-Ch19 in msec.

Lawn Hill Block 1



Block 1: Decay rate (exponential) Ch21-Ch27 in msec.

Lawn Hill Block 1

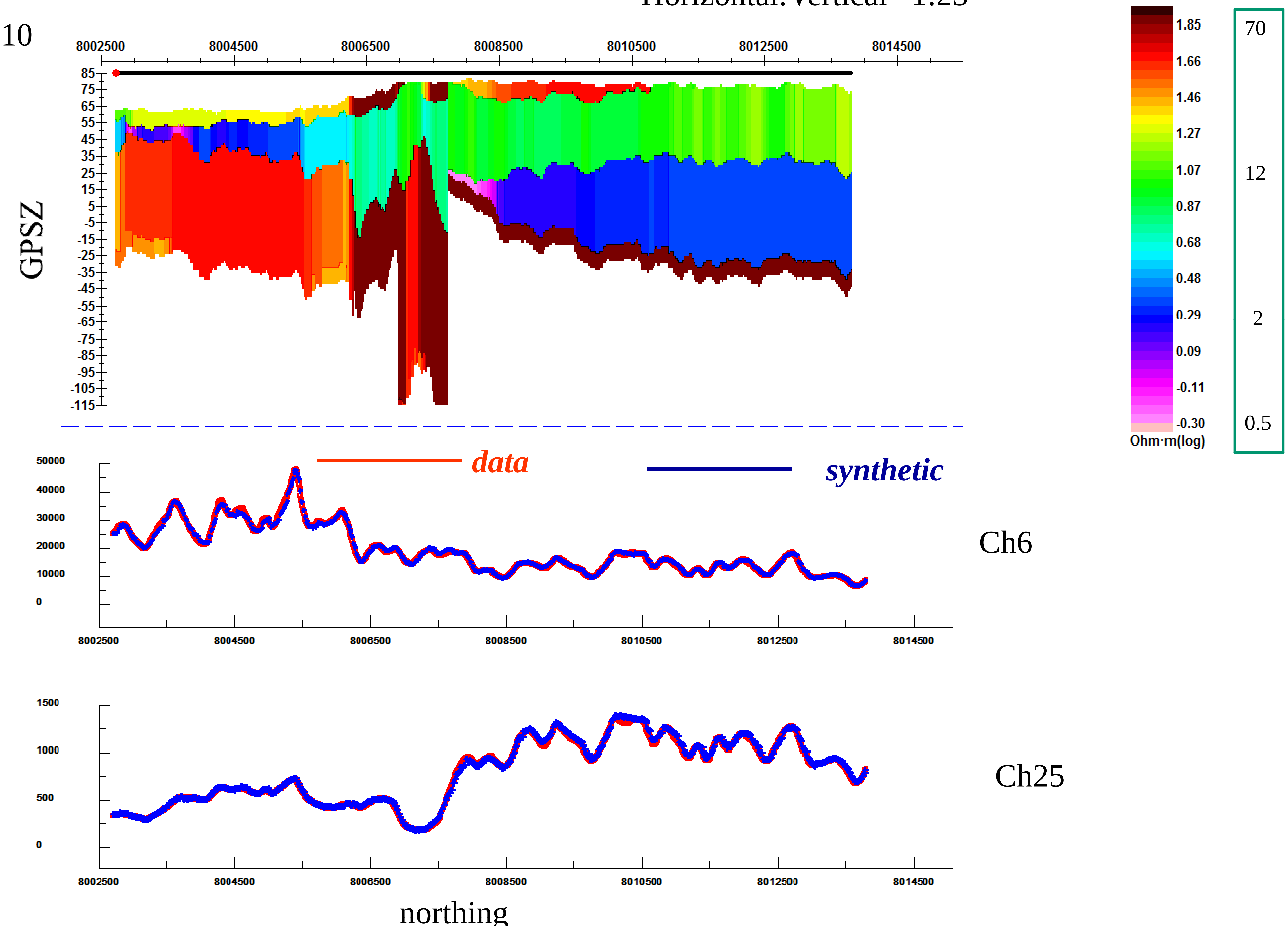


Block 1: Decay rate (exponential) Ch26-Ch32 in msec.

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

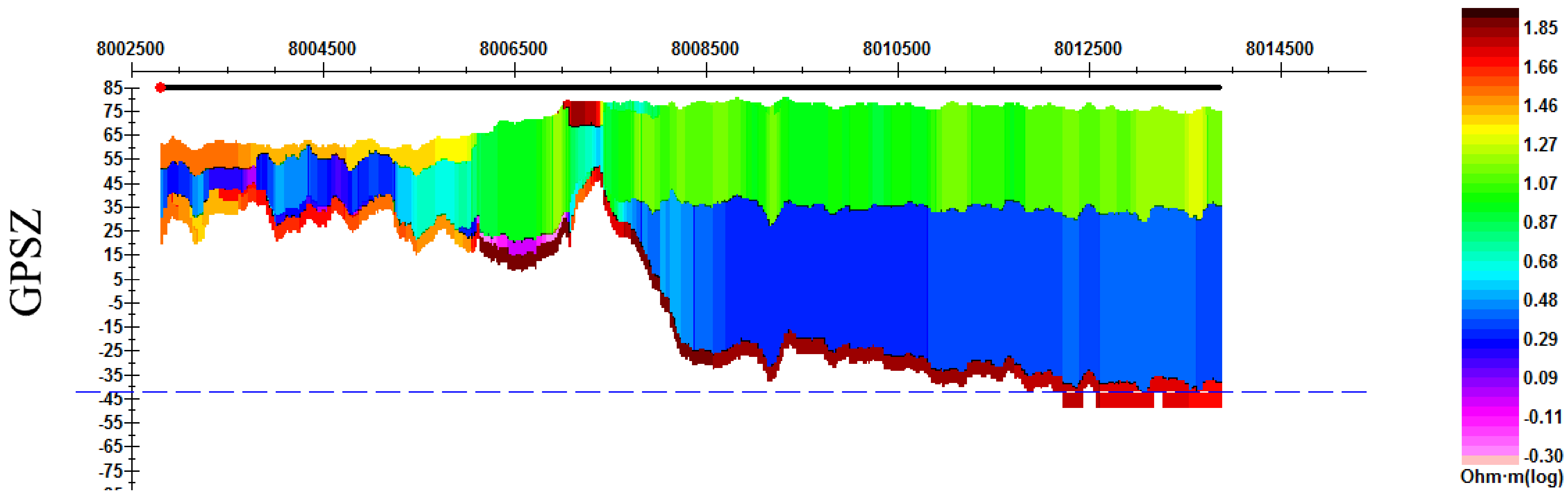
L20510

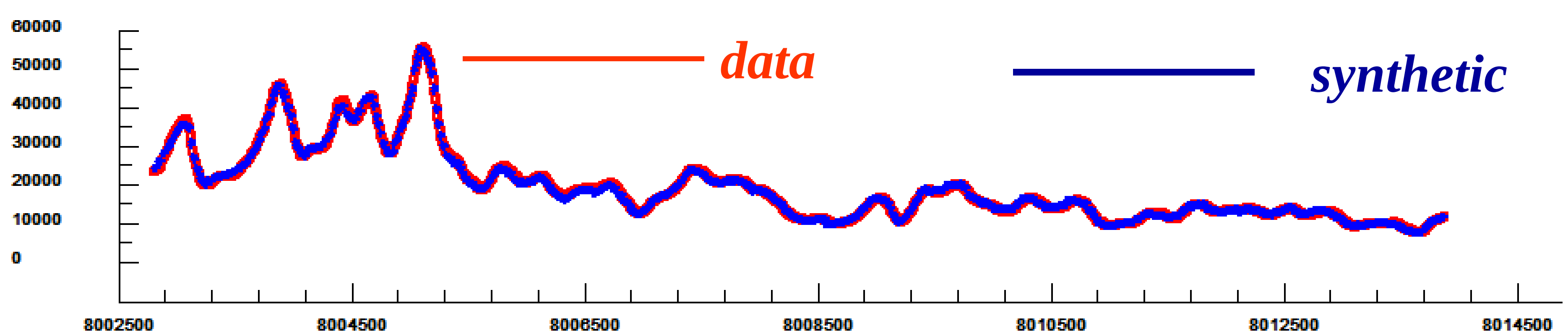


Block 1 TEM Inversions – Log Resistivity

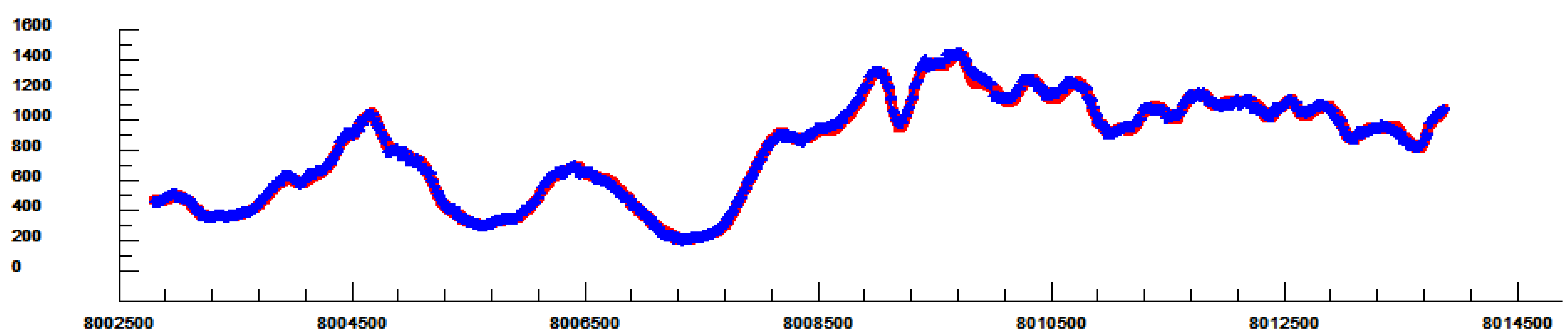
Horizontal:Vertical 1:25

L20520





Ch6



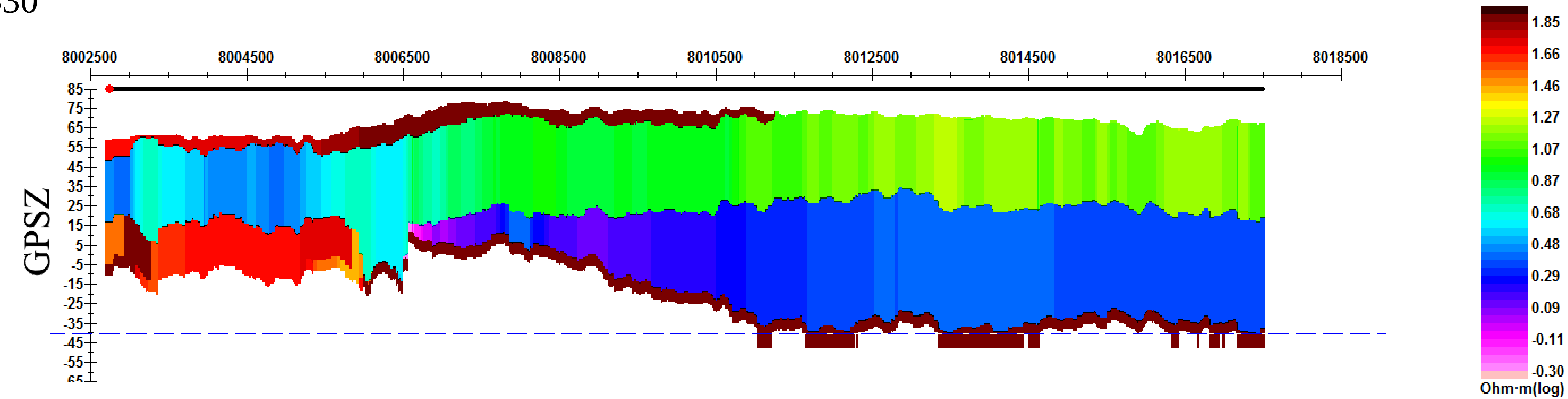
Ch25

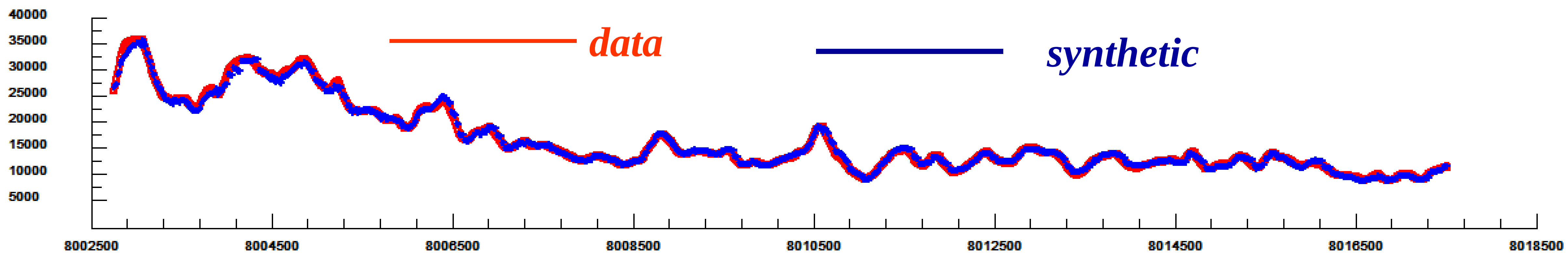
northing

Block 1 TEM Inversions – Log Resistivity

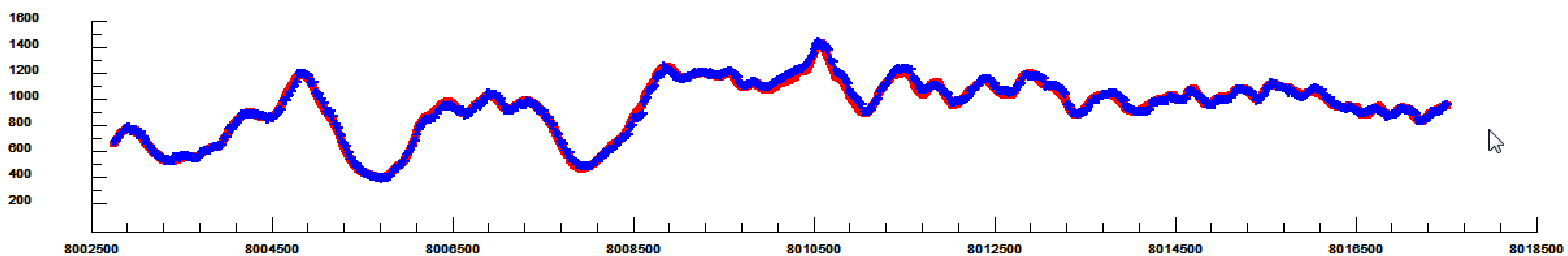
Horizontal:Vertical 1:25

L20530





Ch6



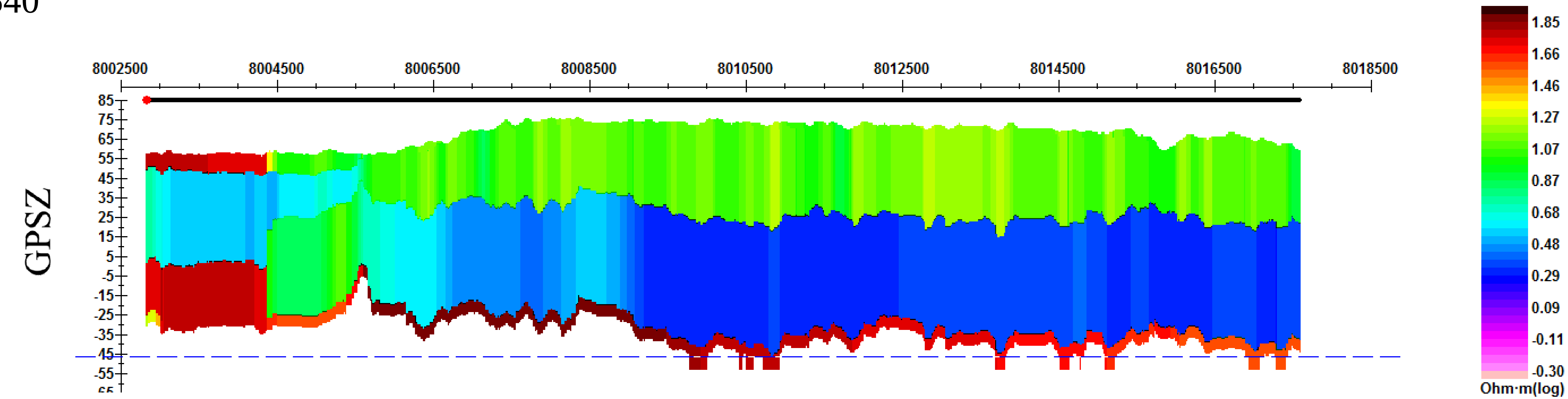
Ch25

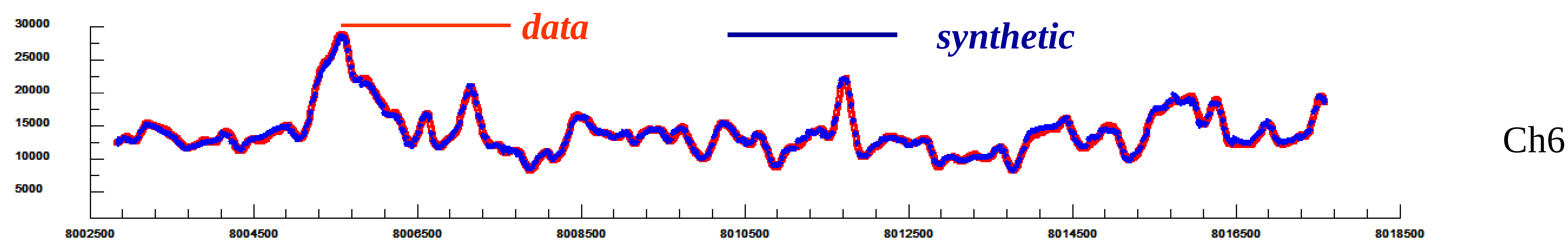
northing

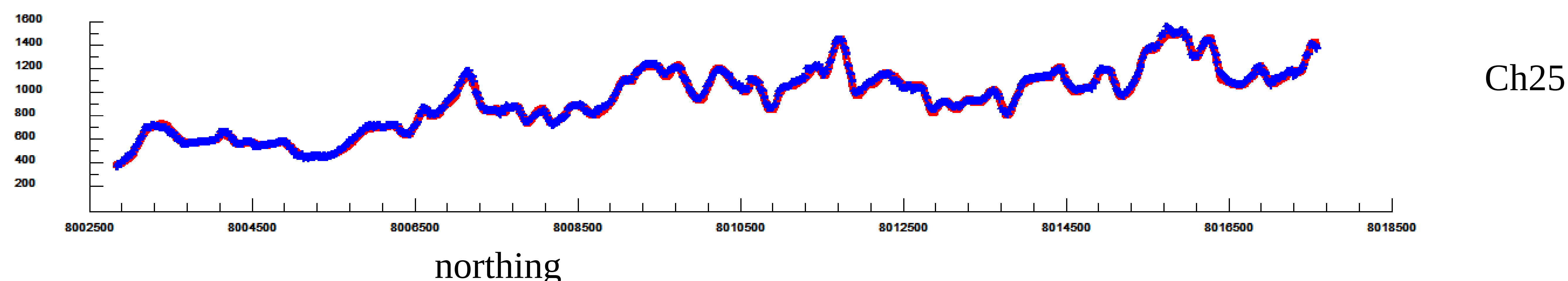
Block 1 TEM Inversions – Log Resistivity

L20540

Horizontal:Vertical 1:25



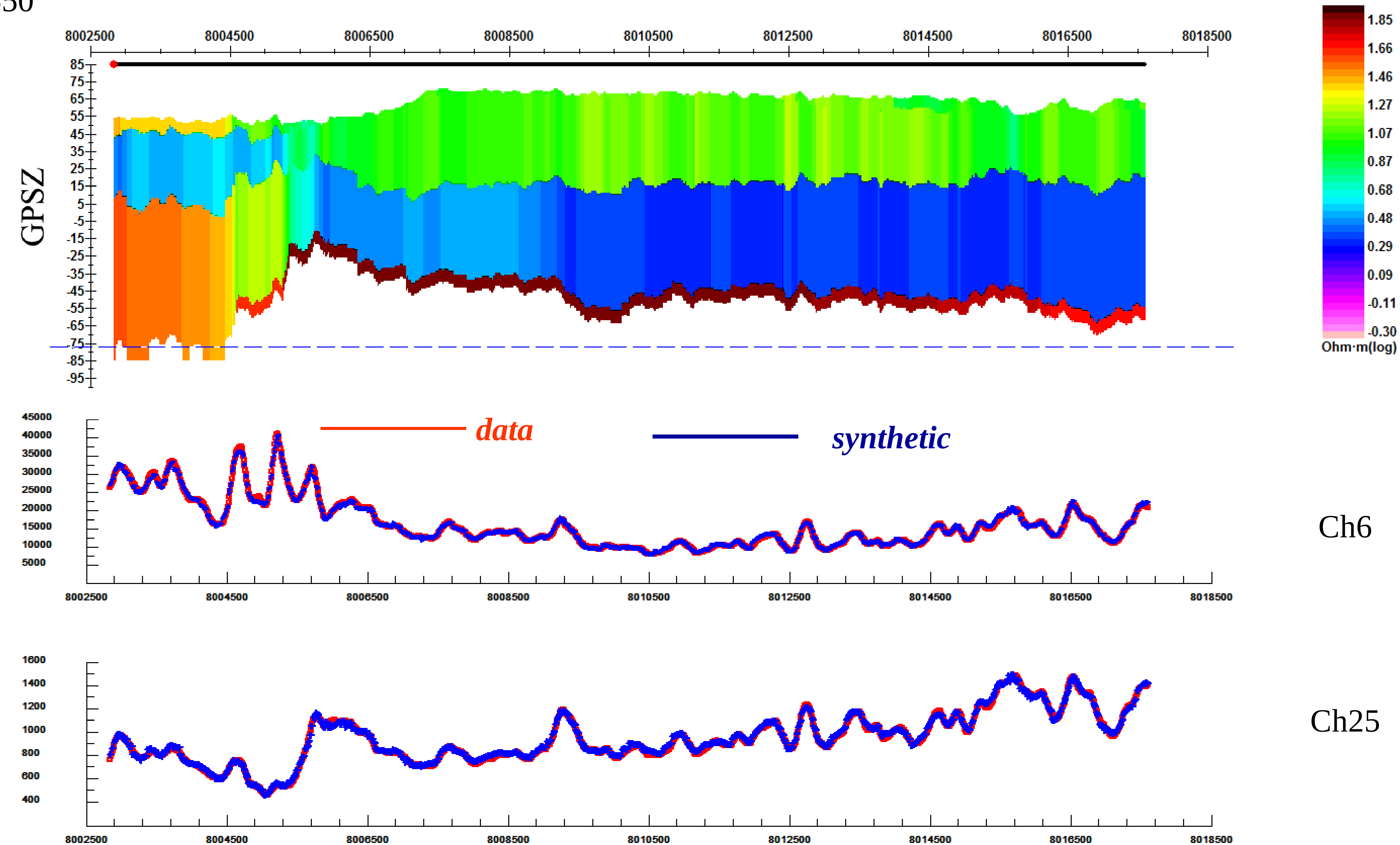




Block 1 TEM Inversions – Log Resistivity

L20550

Horizontal:Vertical 1:25

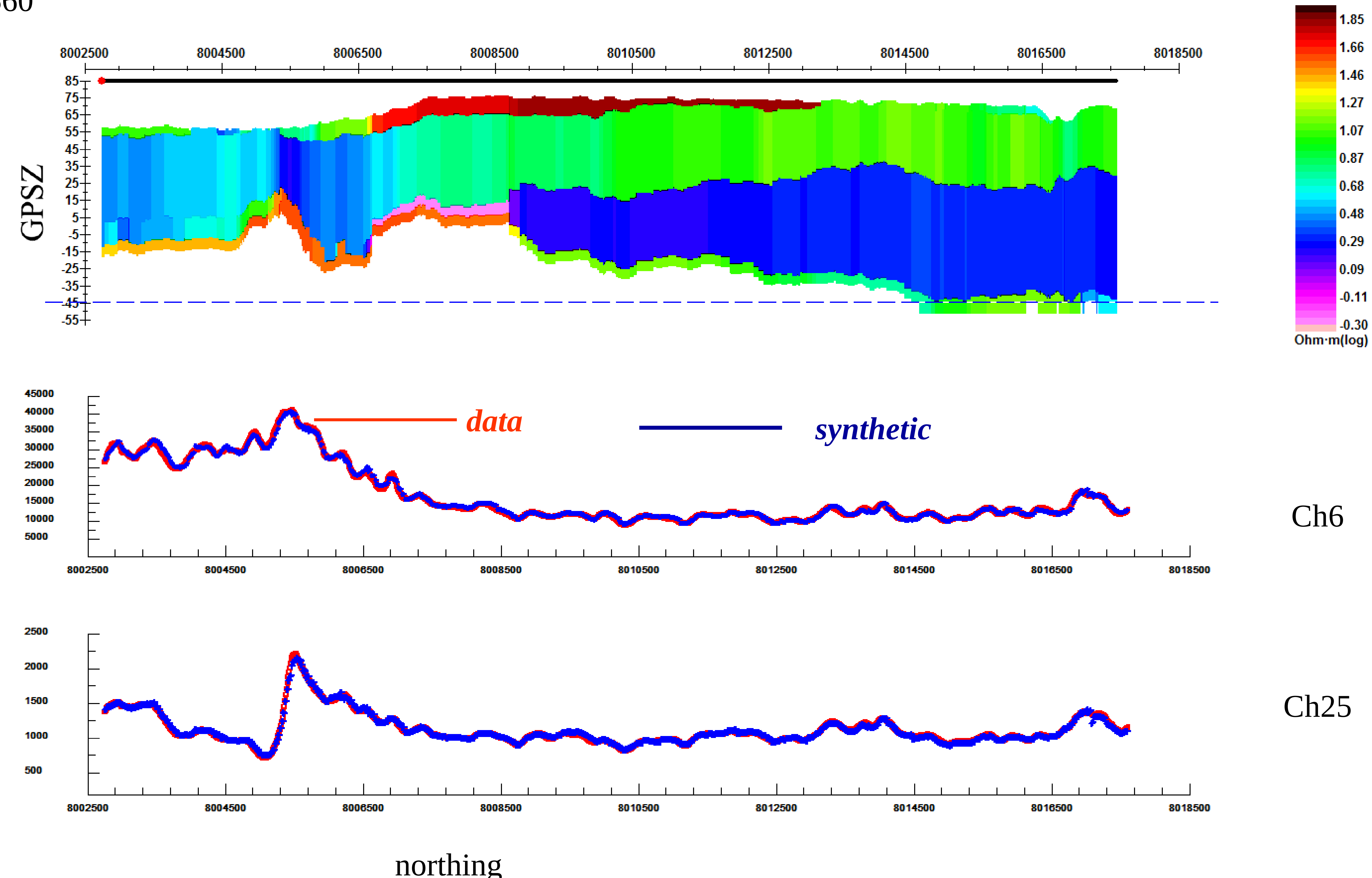


northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

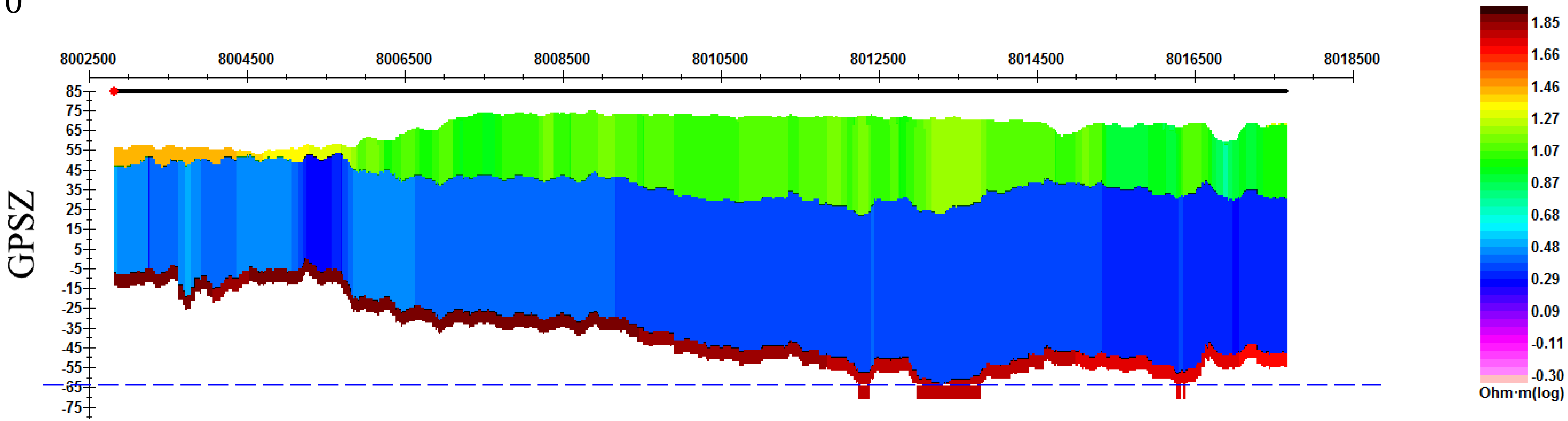
L20560

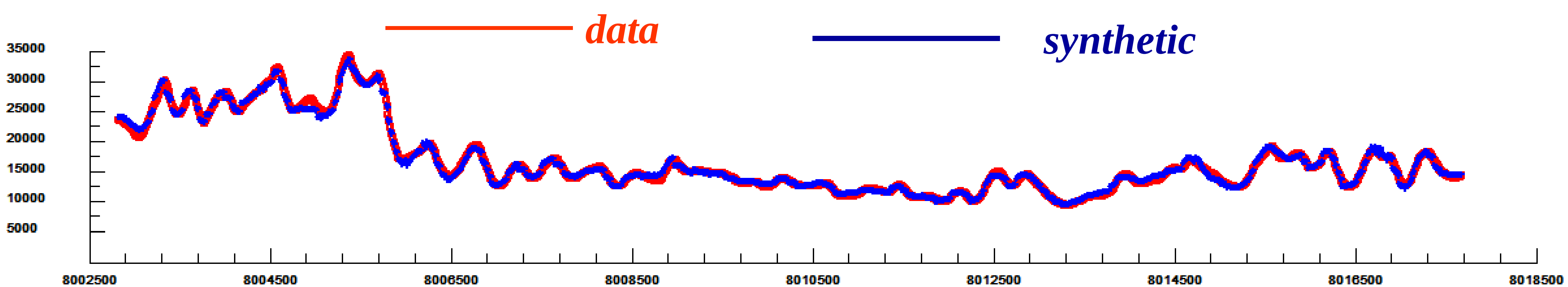


Block 1 TEM Inversions – Log Resistivity

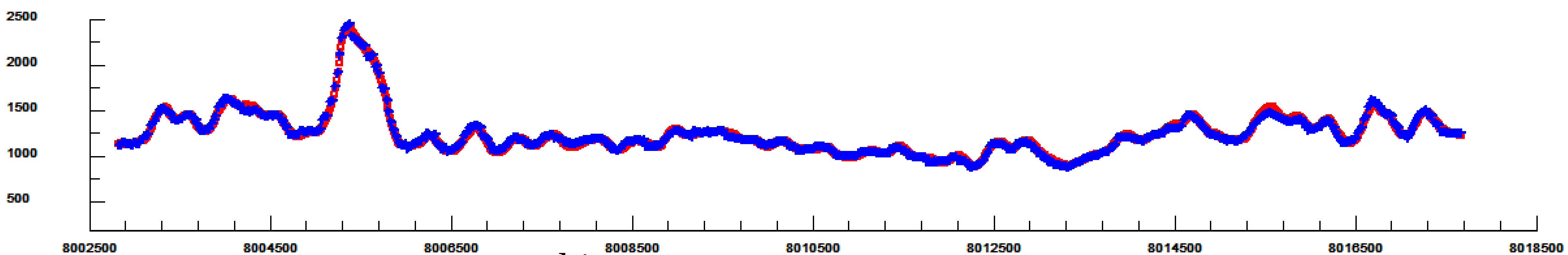
Horizontal:Vertical 1:25

L20570





Ch6



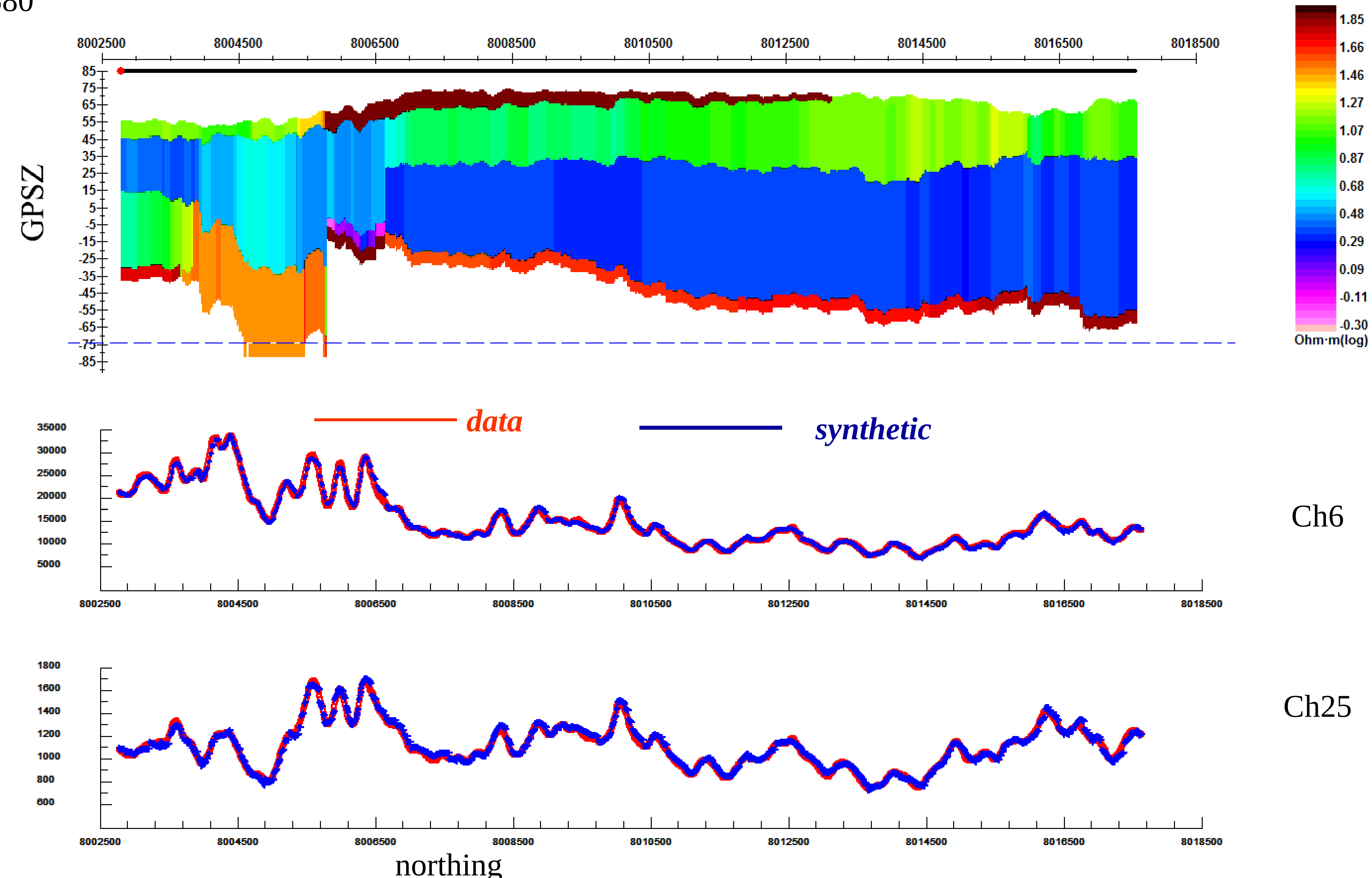
Ch25

northing

Block 1 TEM Inversions – Log Resistivity

L20580

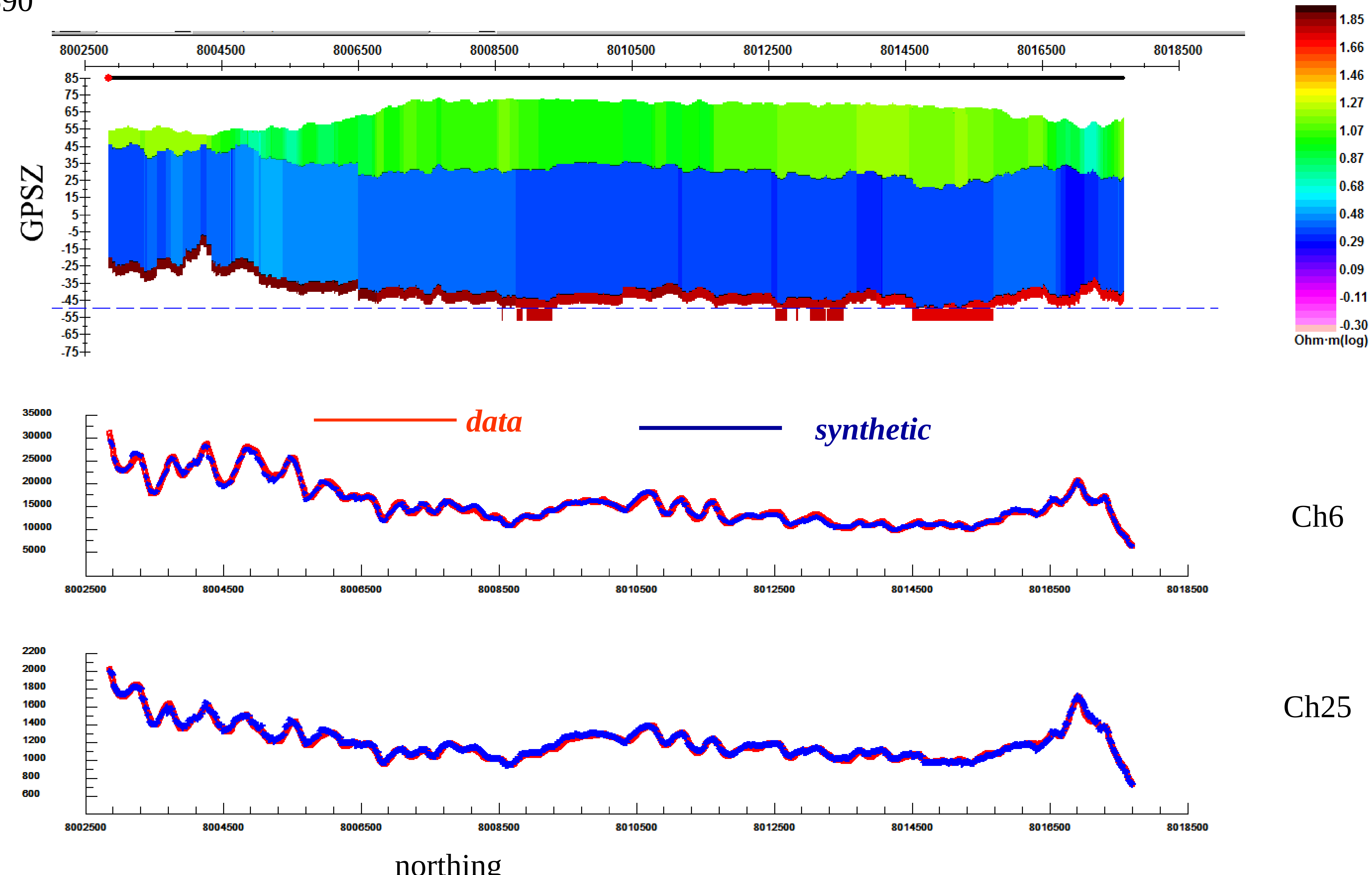
Horizontal:Vertical 1:25



Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

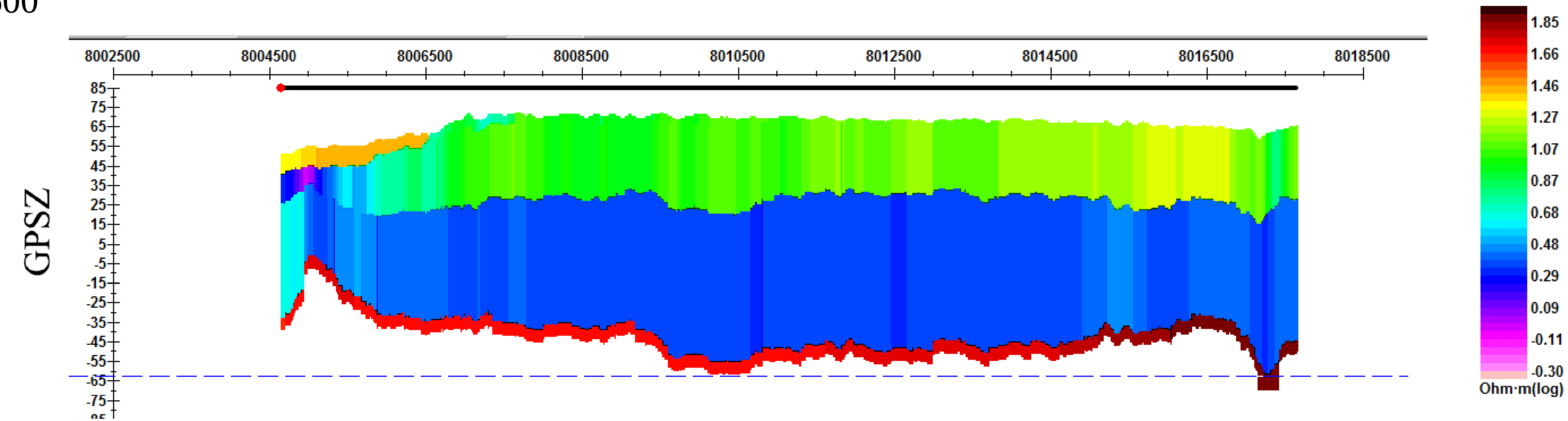
L20590

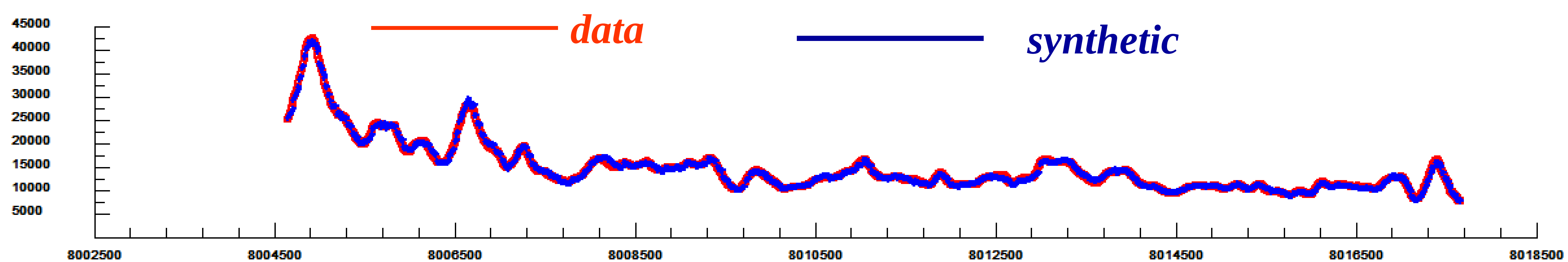


Block 1 TEM Inversions – Log Resistivity

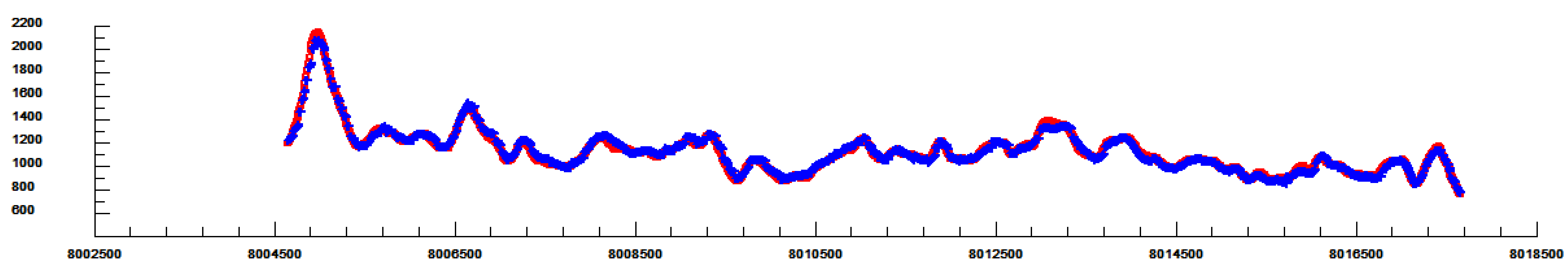
Horizontal:Vertical 1:25

L20600





Ch6



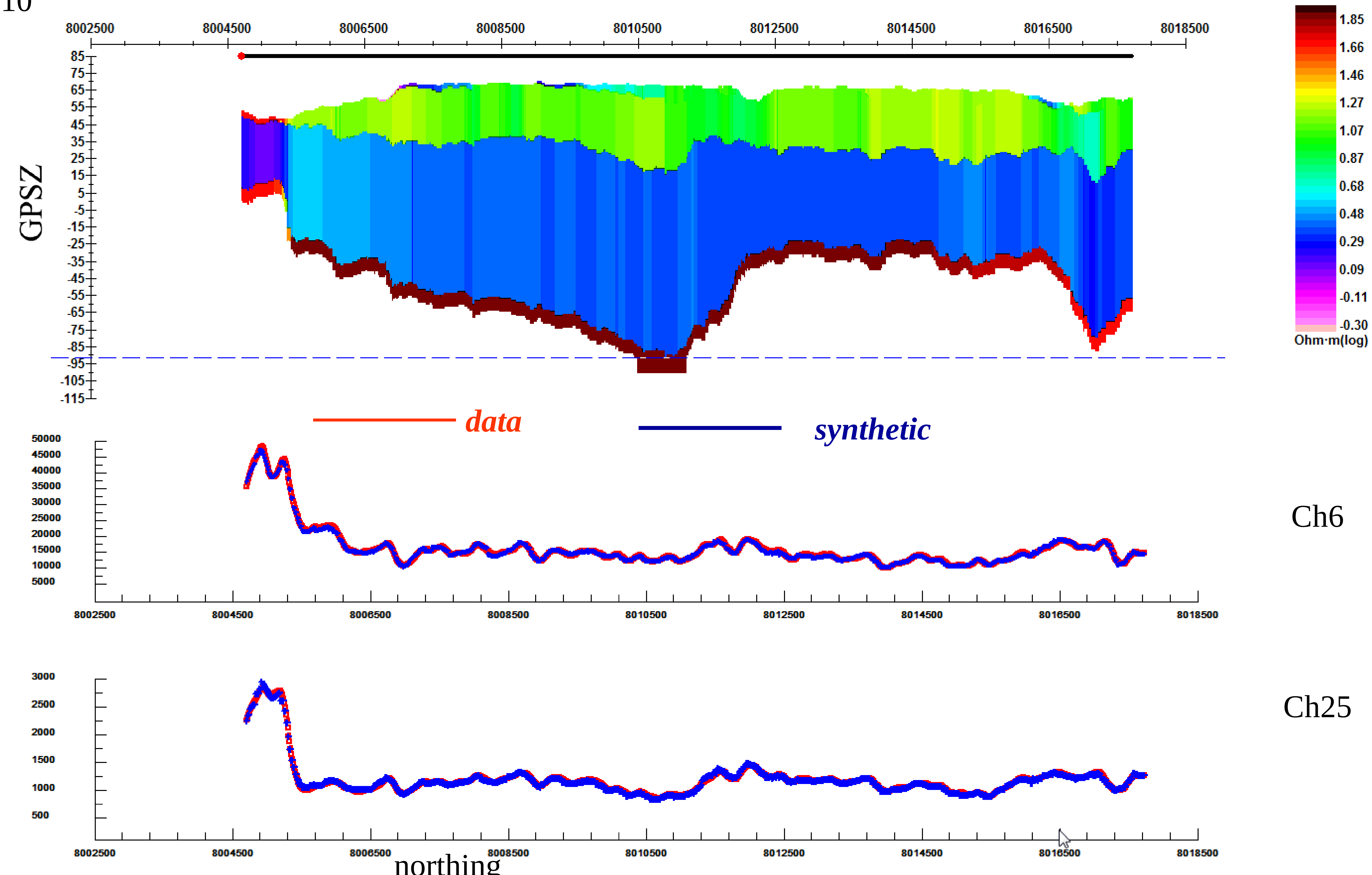
Ch25

northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

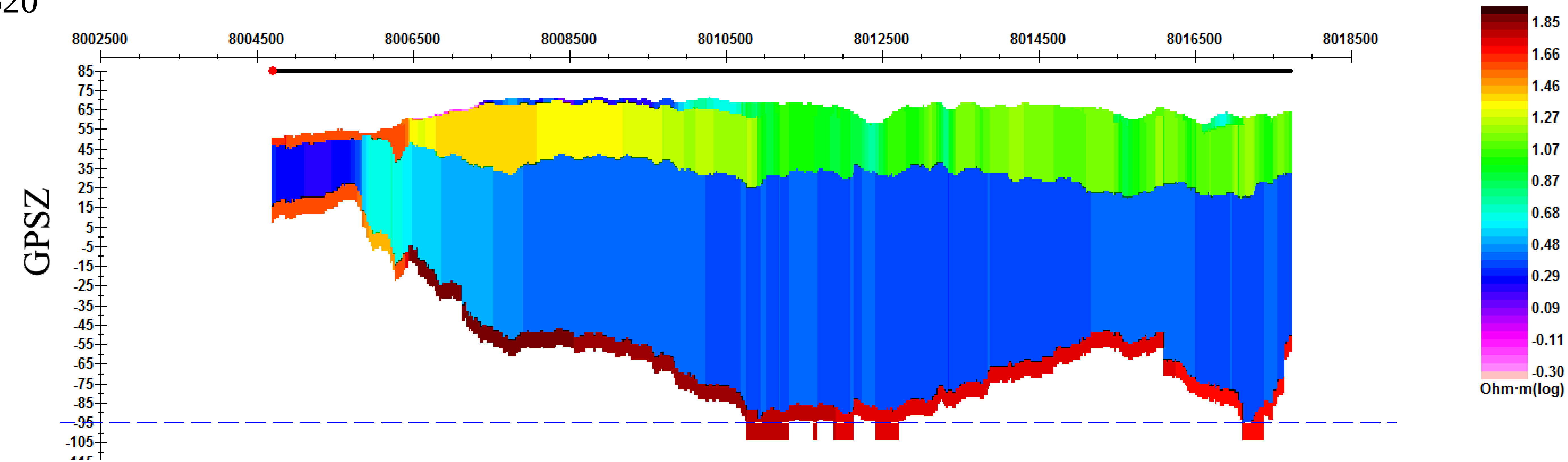
L20610

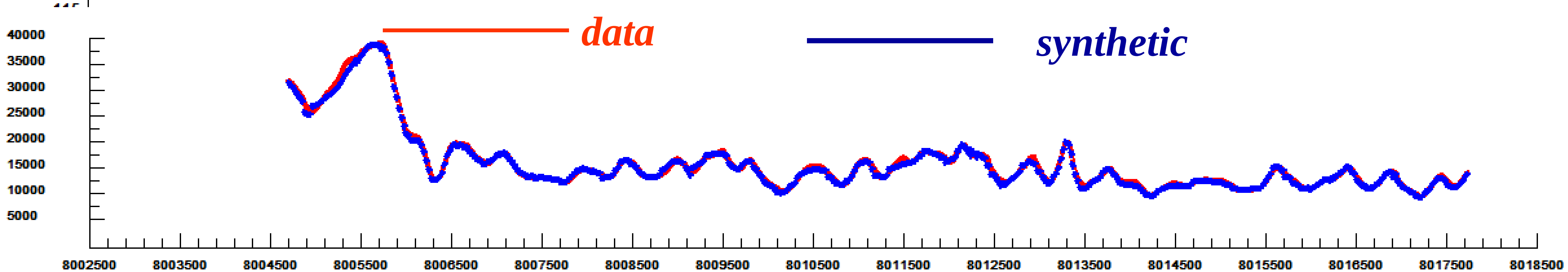


Block 1 TEM Inversions – Log Resistivity

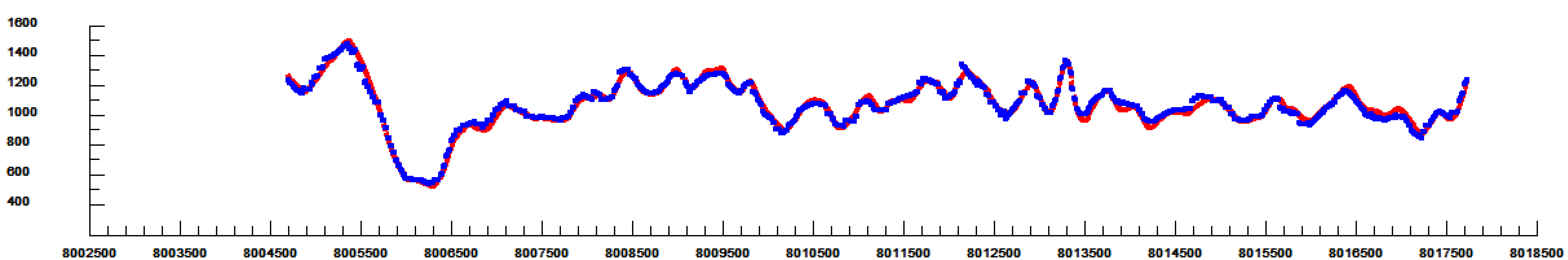
Horizontal:Vertical 1:25

L20620





Ch6



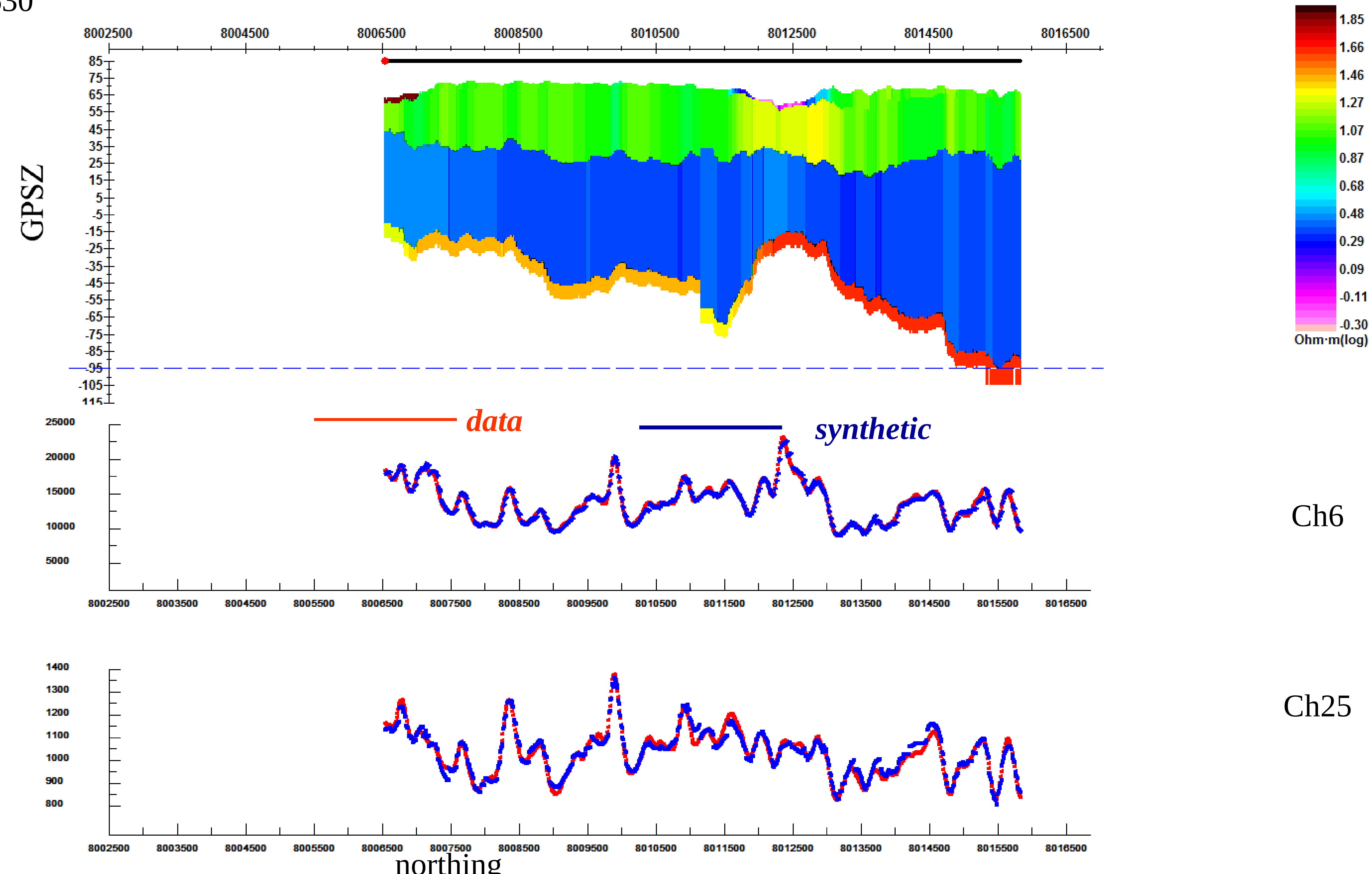
Ch25

northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

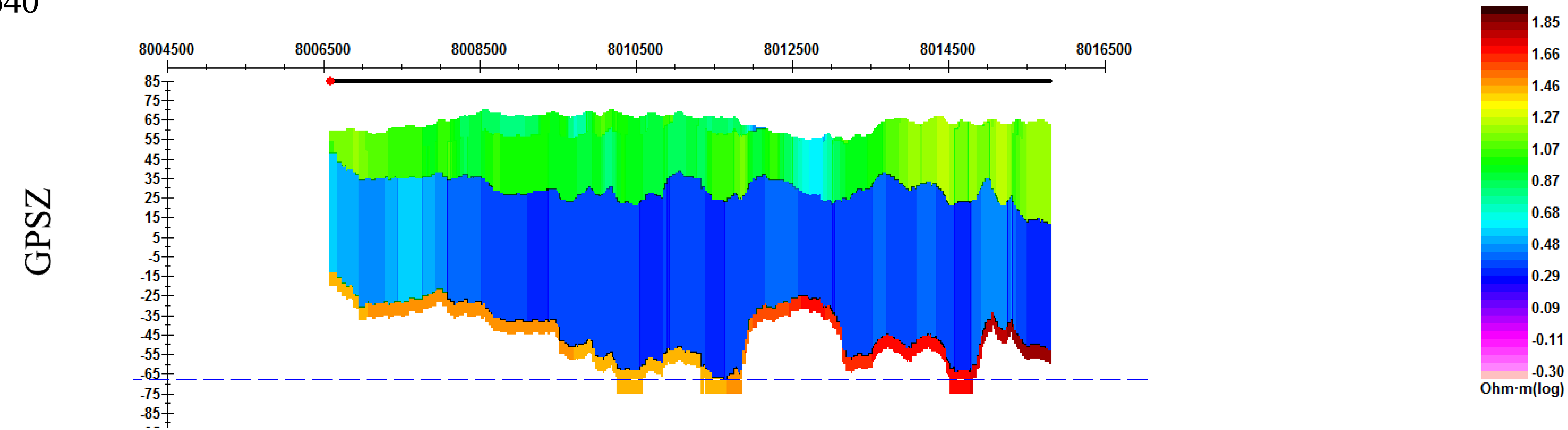
L20630

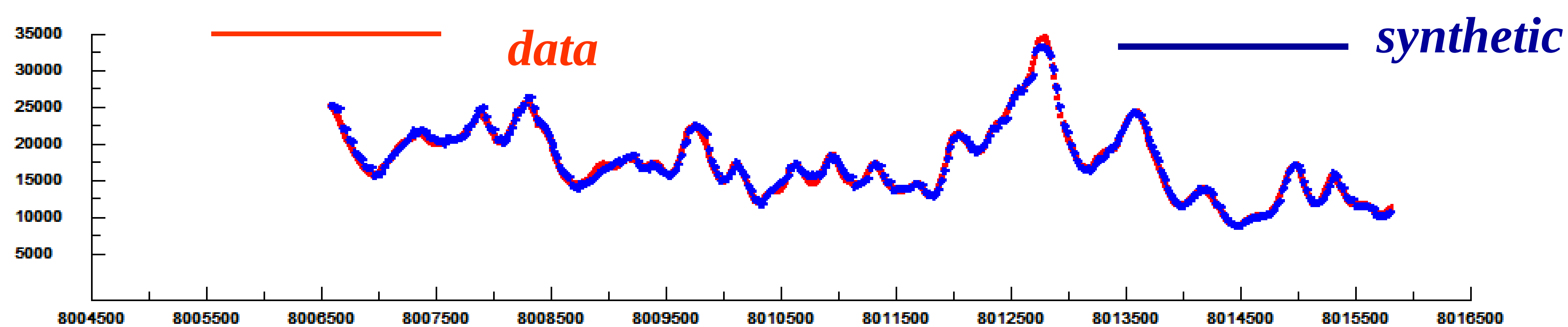


Block 1 TEM Inversions – Log Resistivity

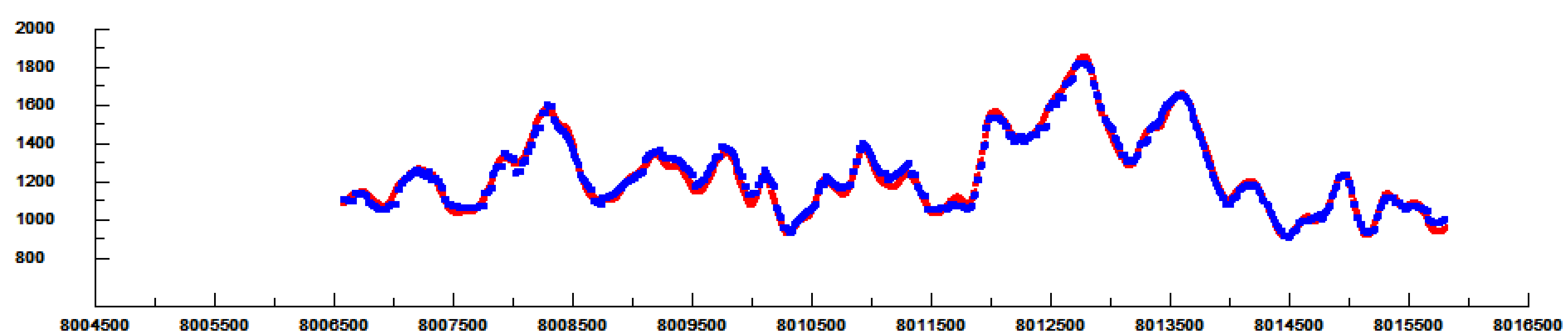
Horizontal:Vertical 1:25

L20640





Ch6



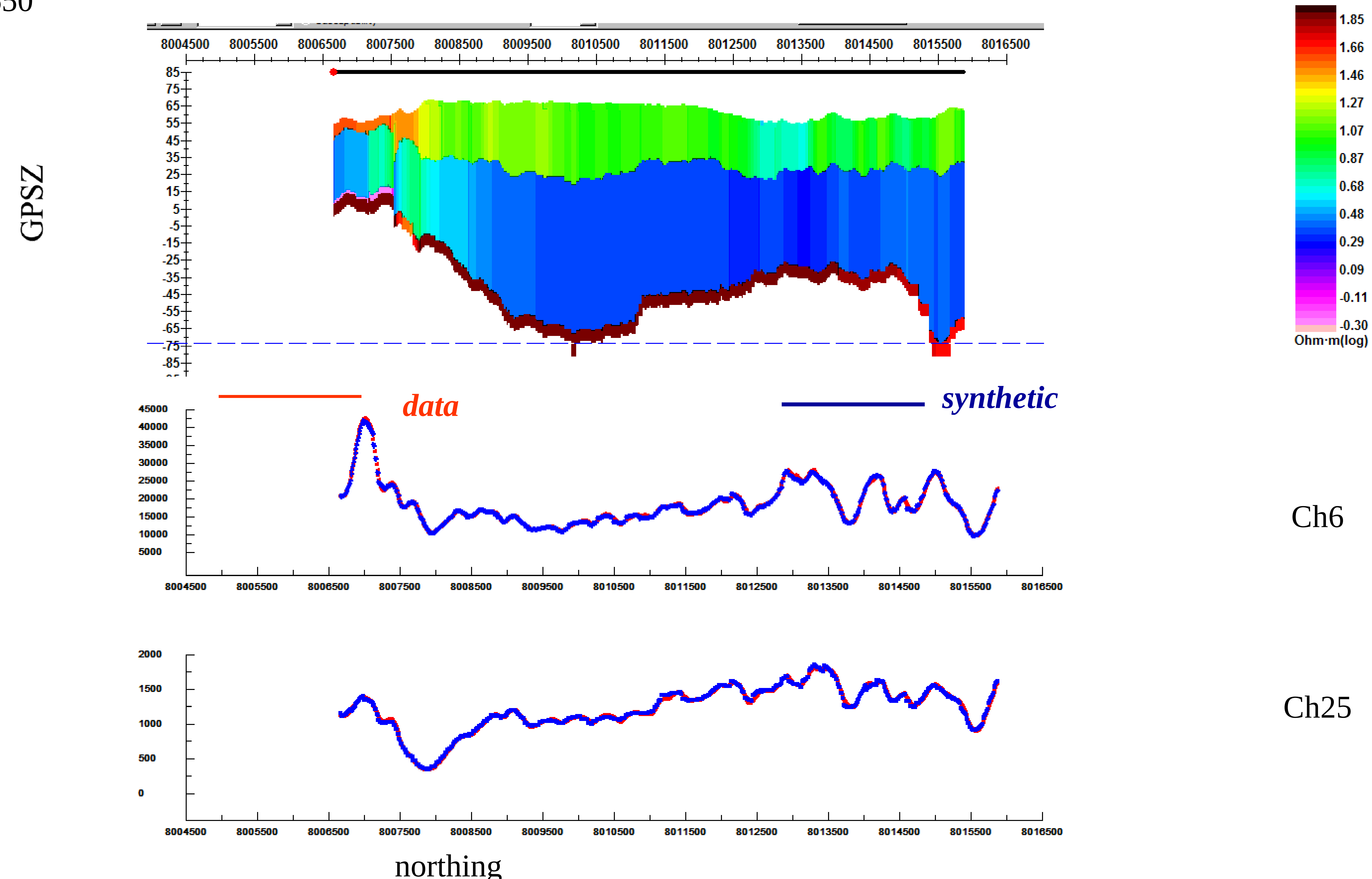
Ch25

northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

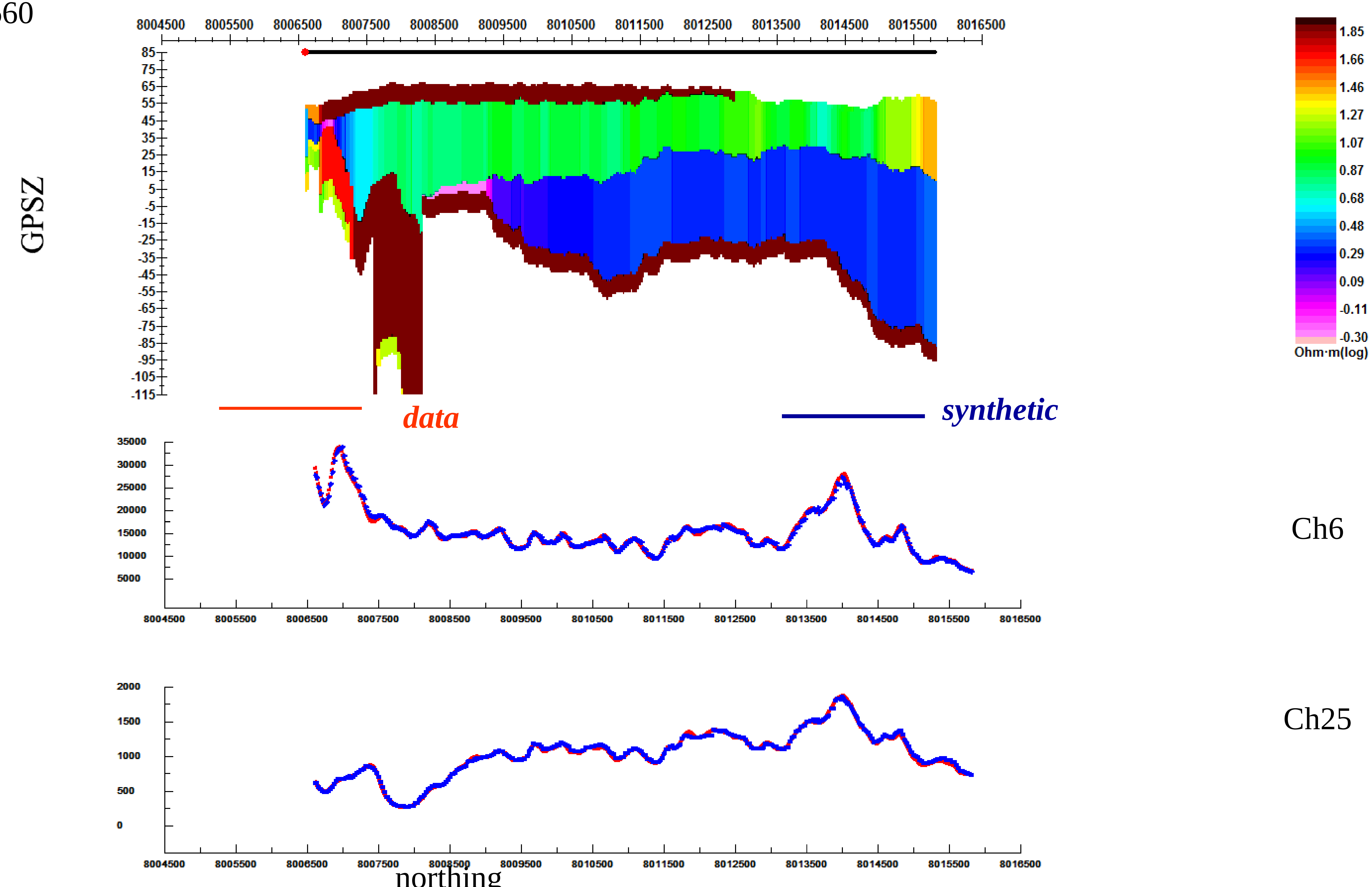
L20650



Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

L20660

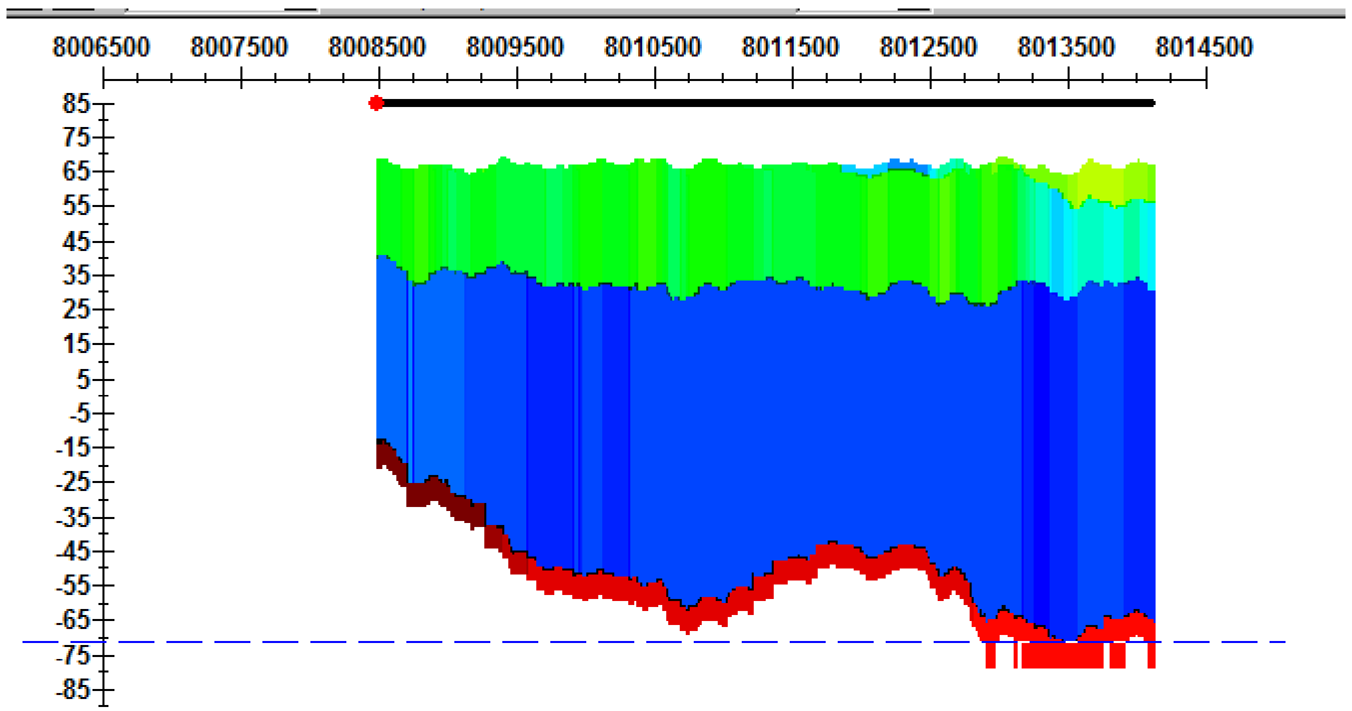


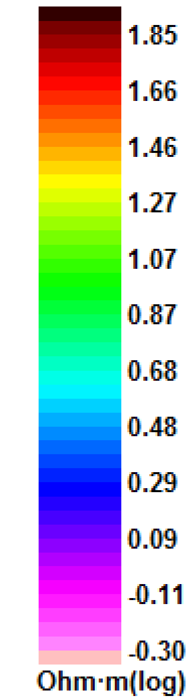
Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

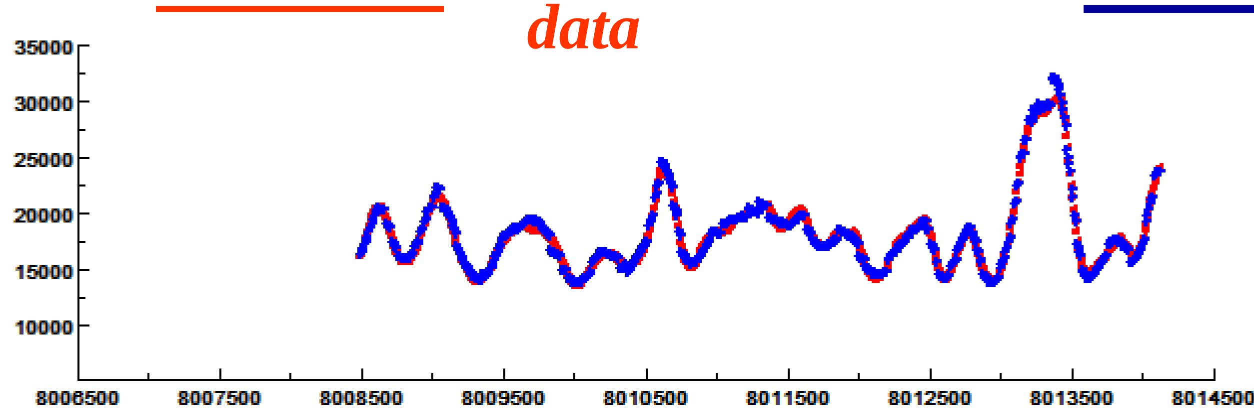
L20670

GPSZ

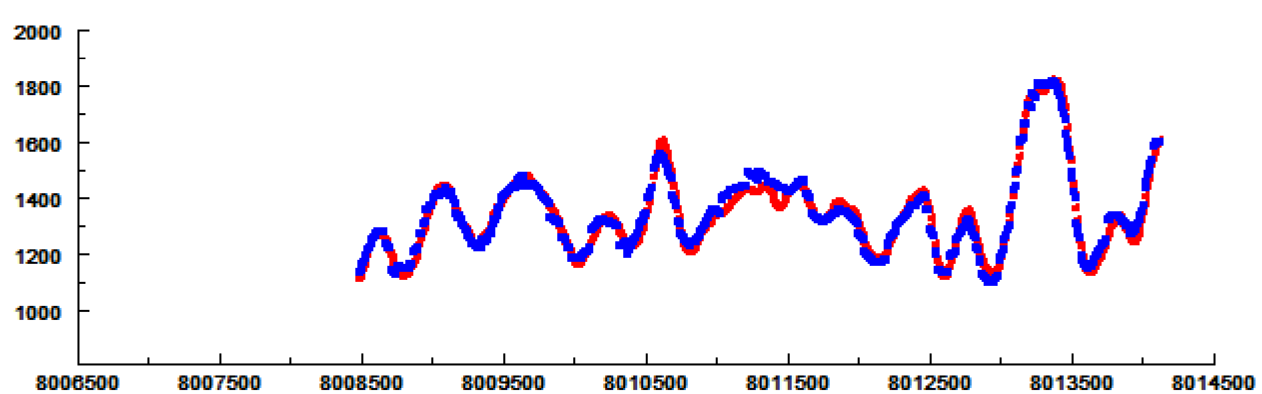




data *synthetic*



Ch6



Ch25

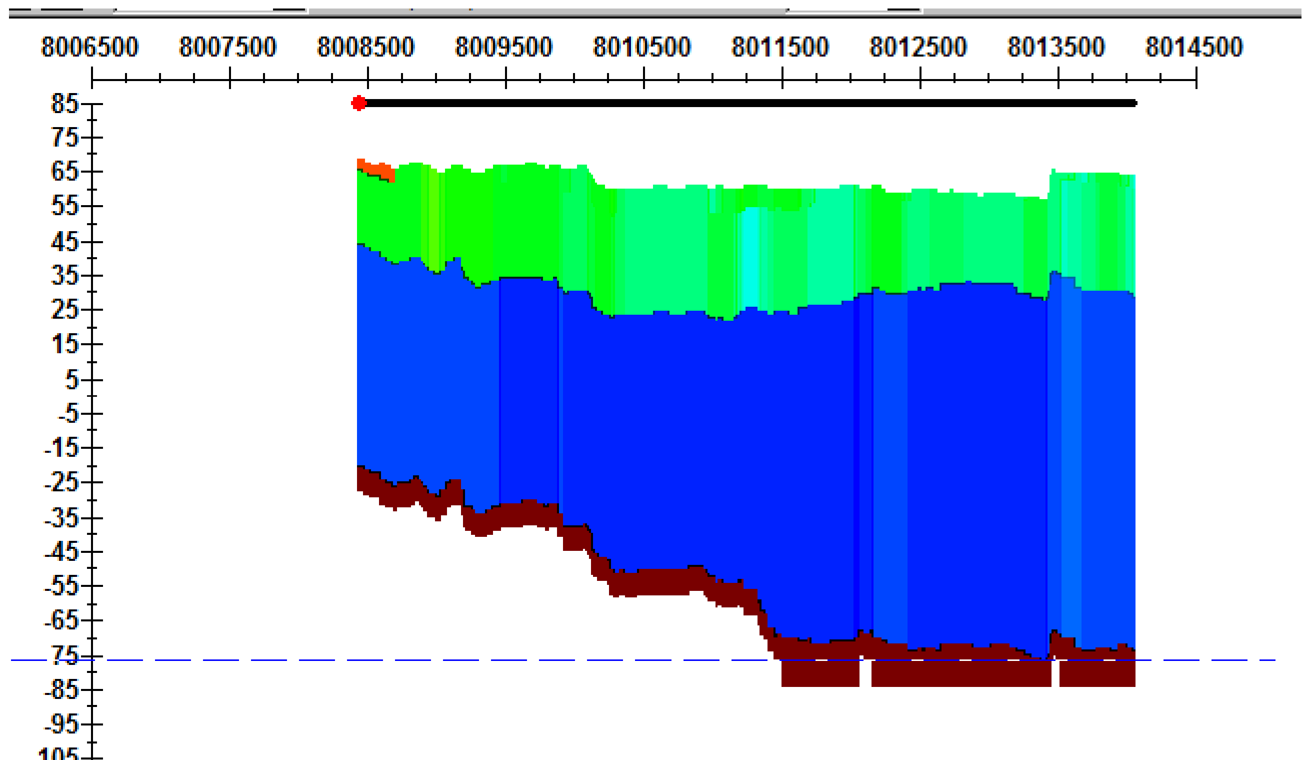
northing

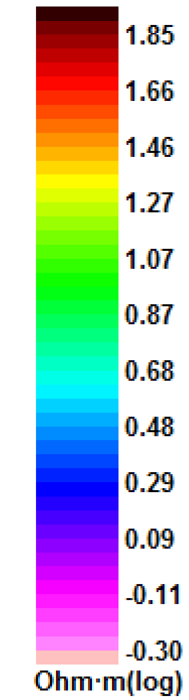
Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

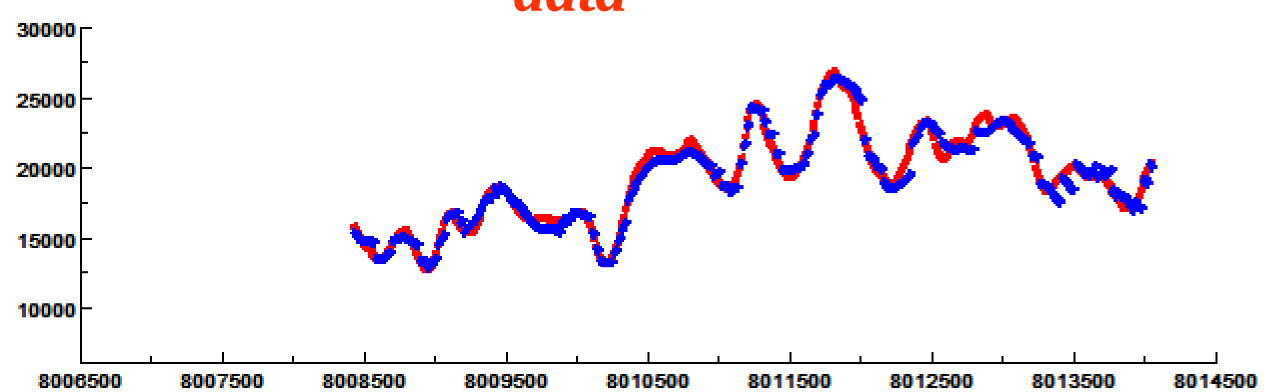
L20680

GPSZ

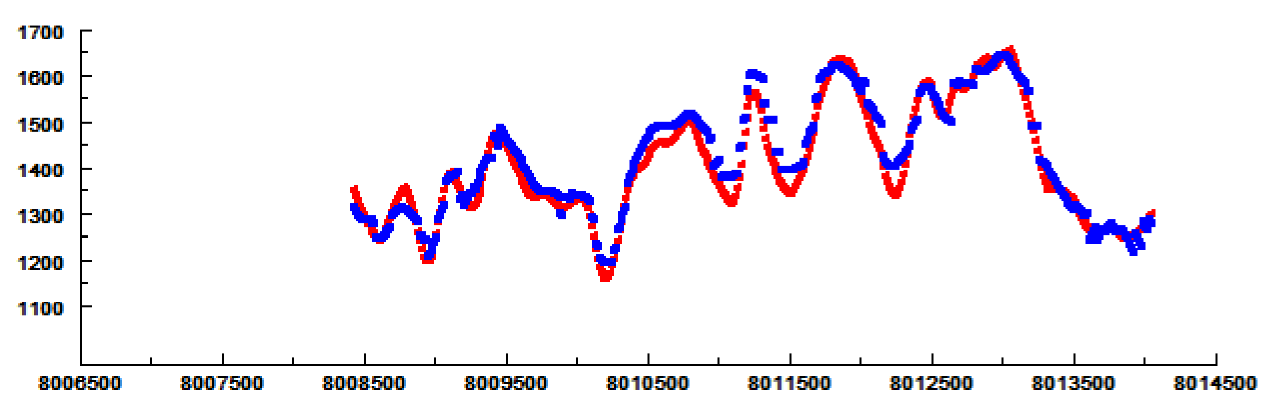




data *synthetic*



Ch6



Ch25

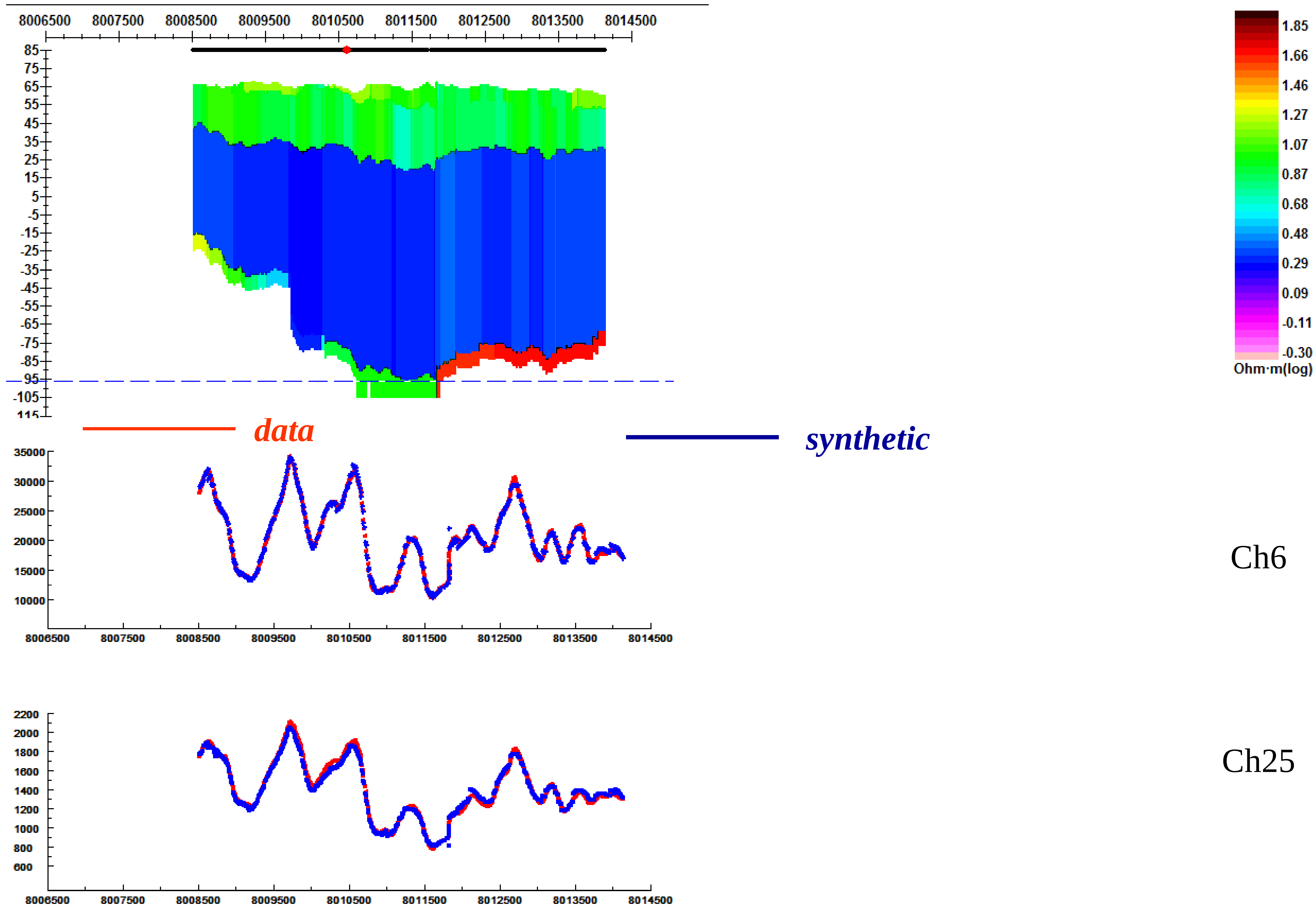
northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

L20690

GPSZ

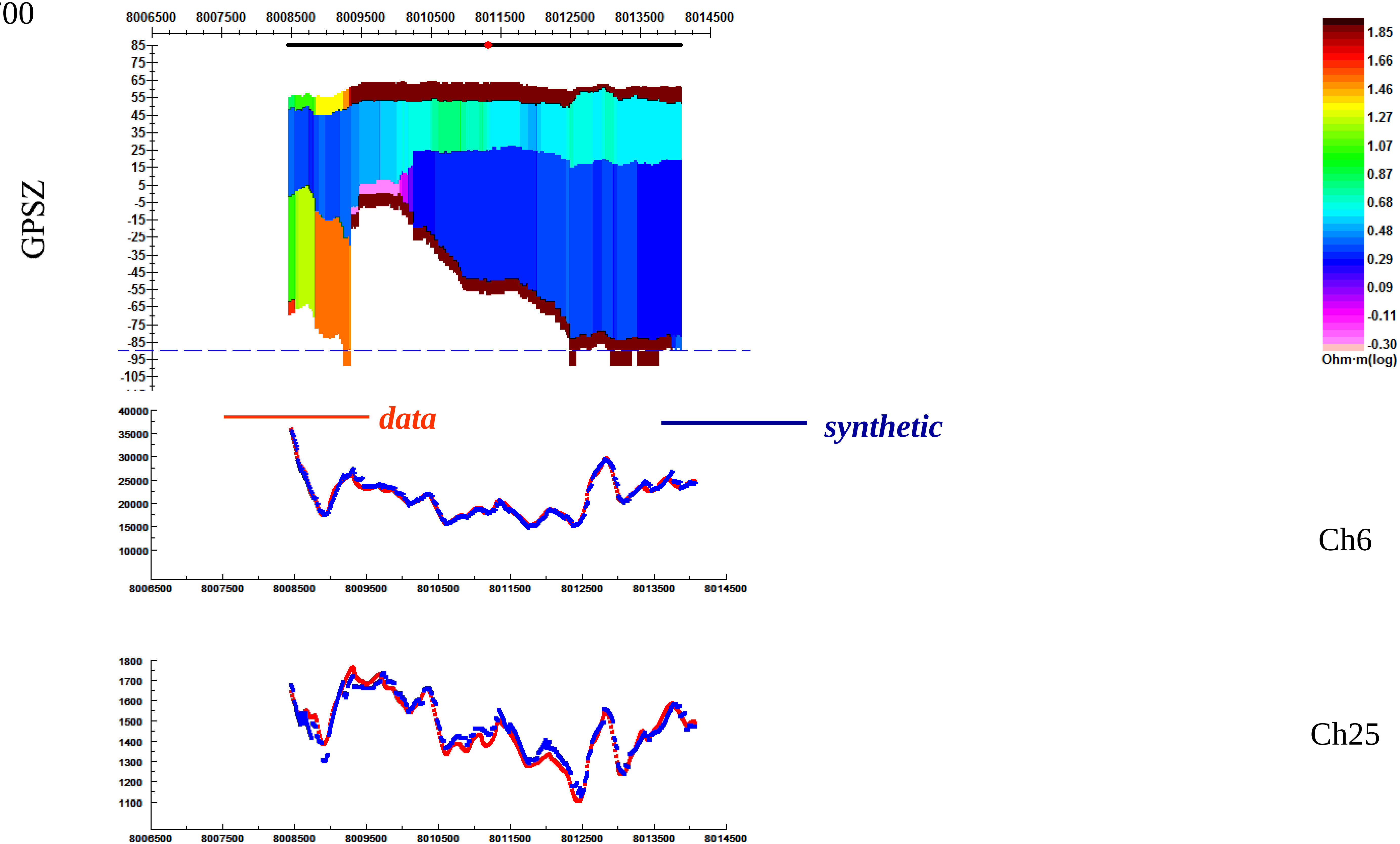


northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

L20700

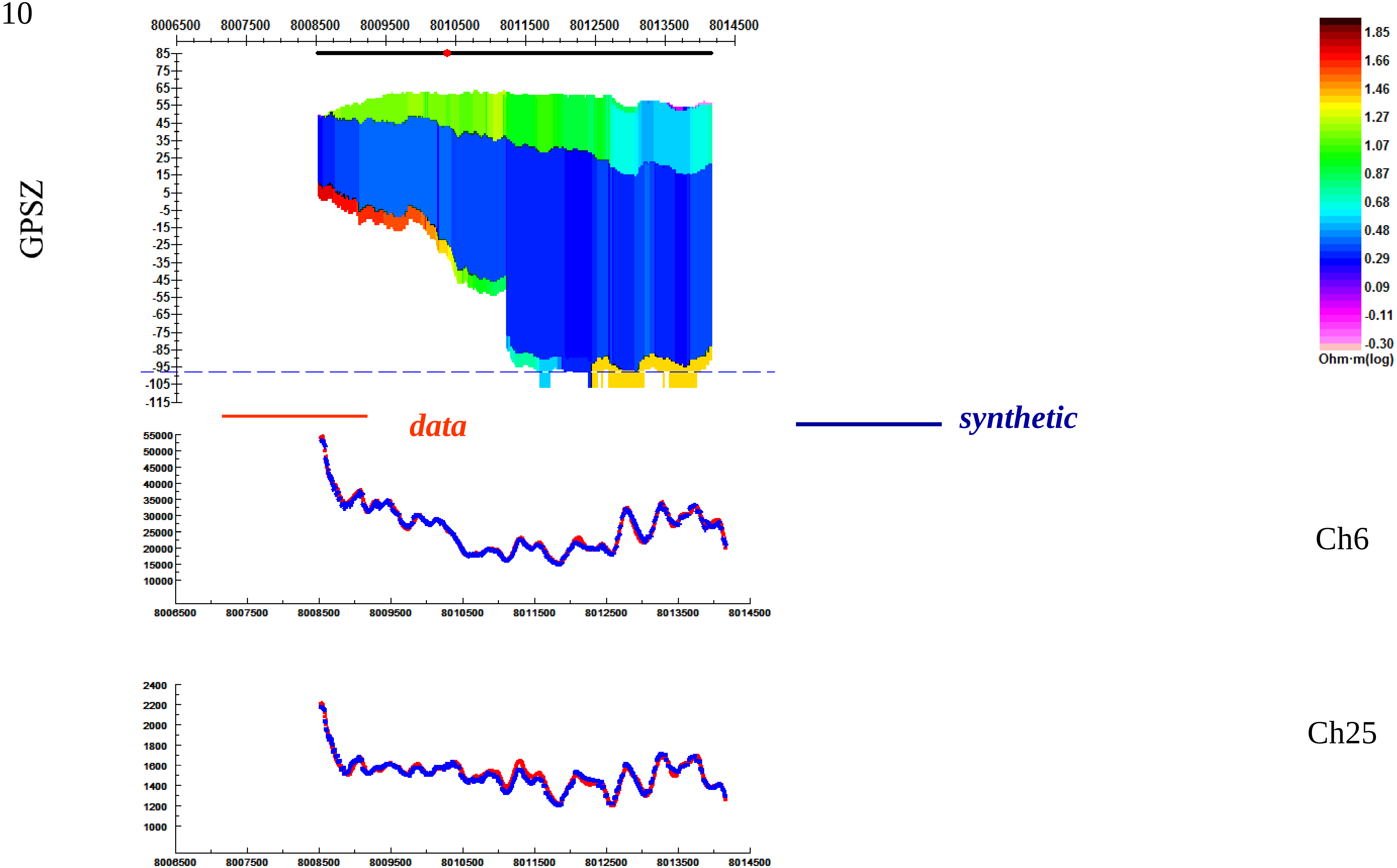


northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

L20710

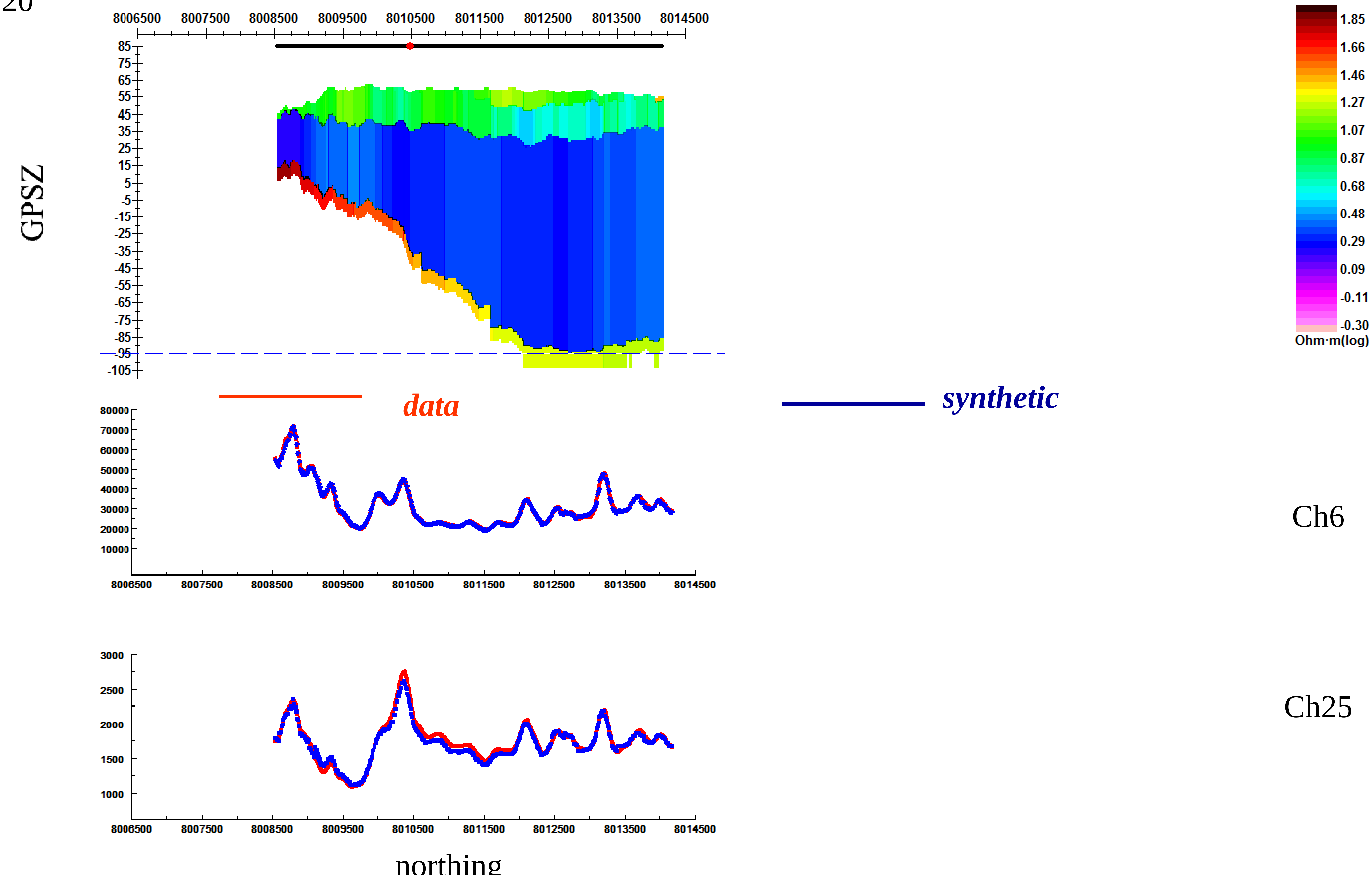


northing

Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

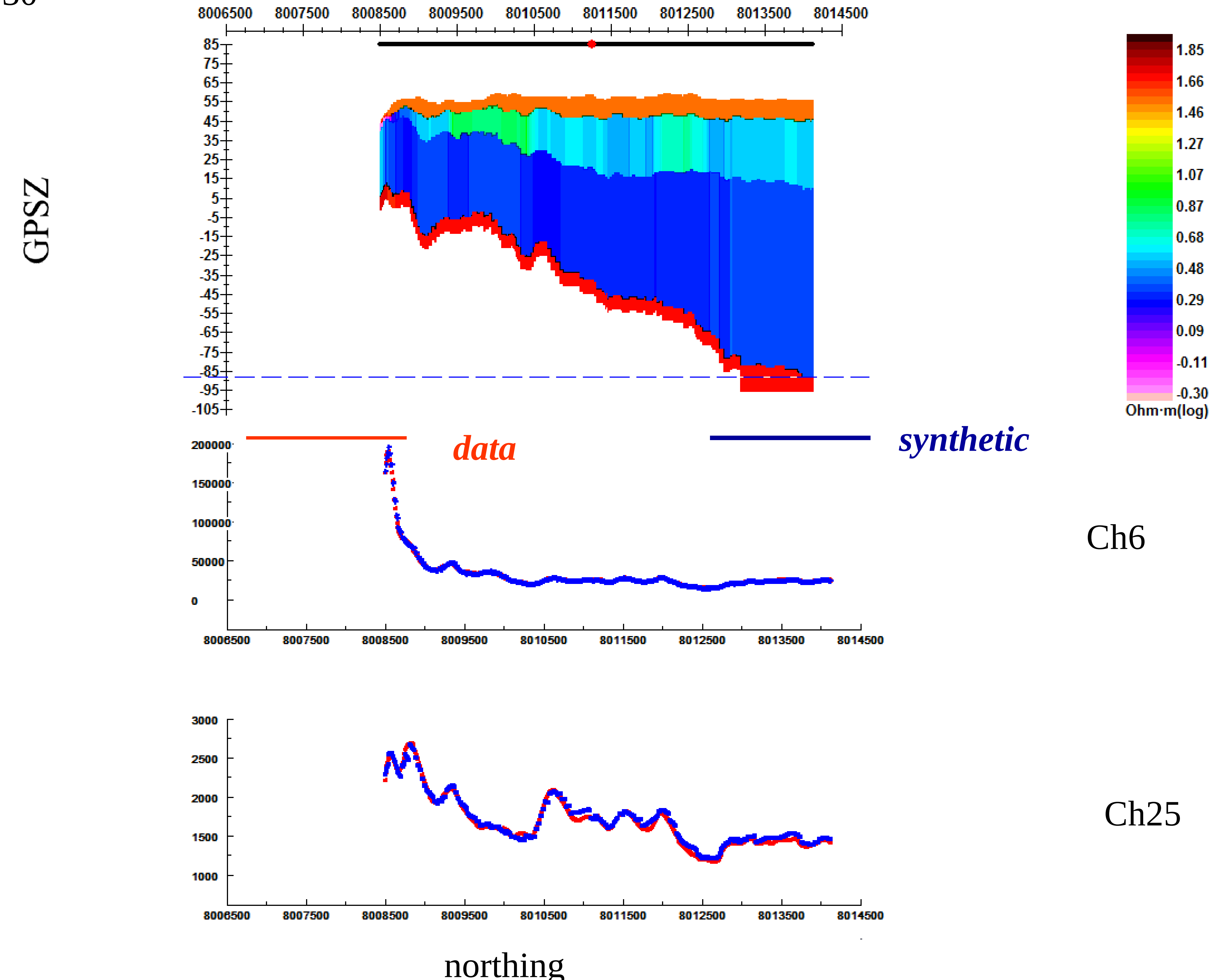
L20720



Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

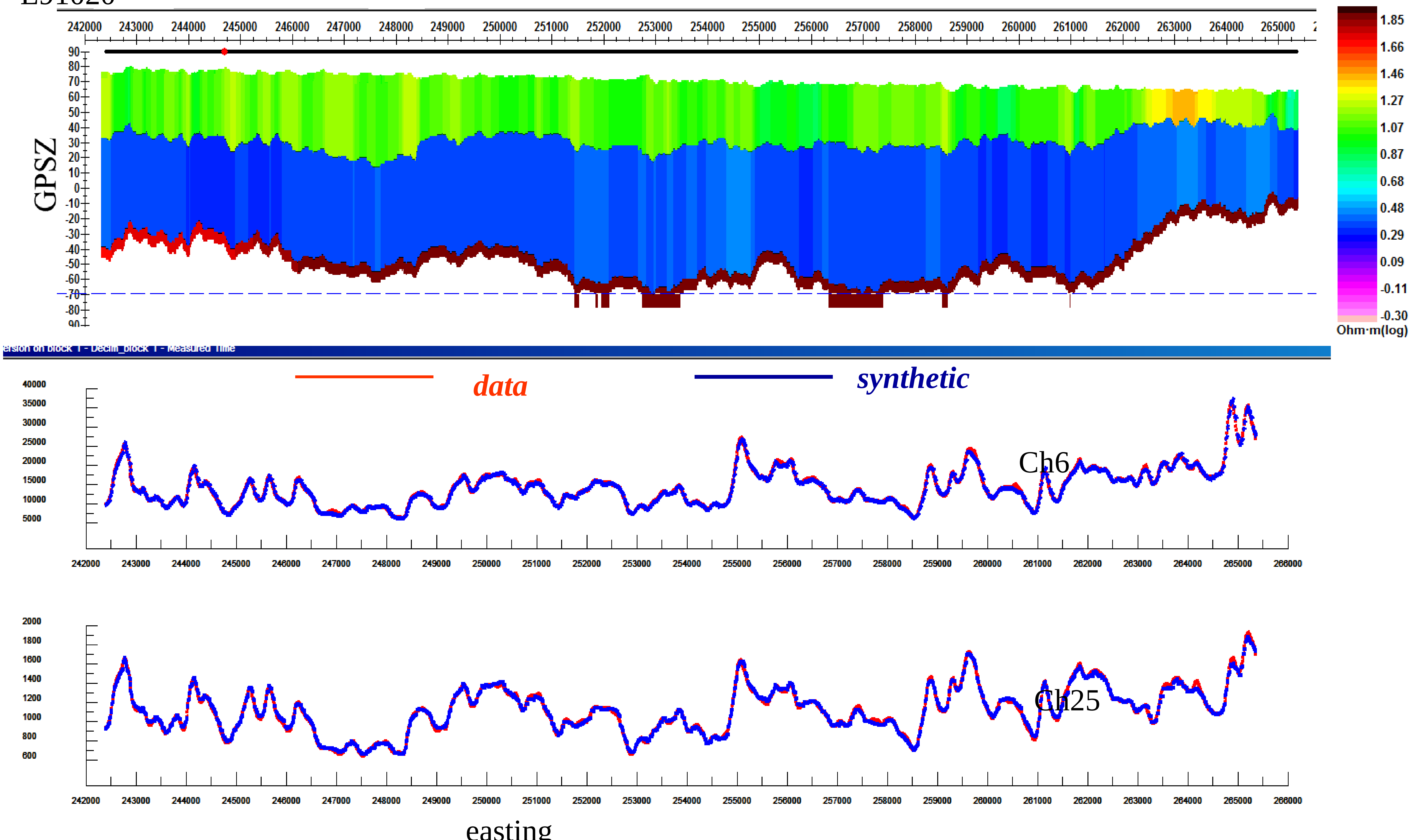
L20730



Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

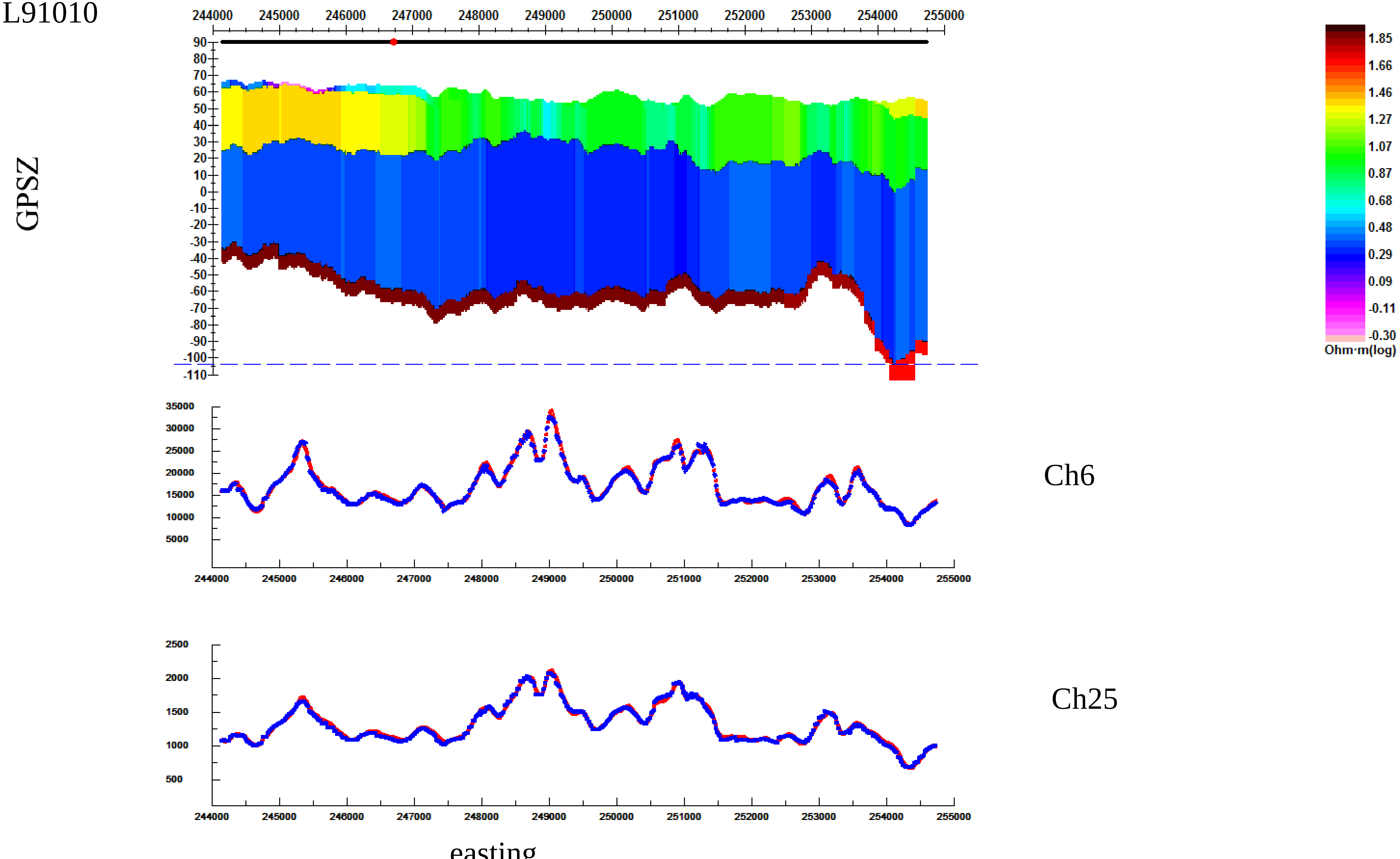
L91020



Block 1 TEM Inversions – Log Resistivity

Horizontal:Vertical 1:25

L91010

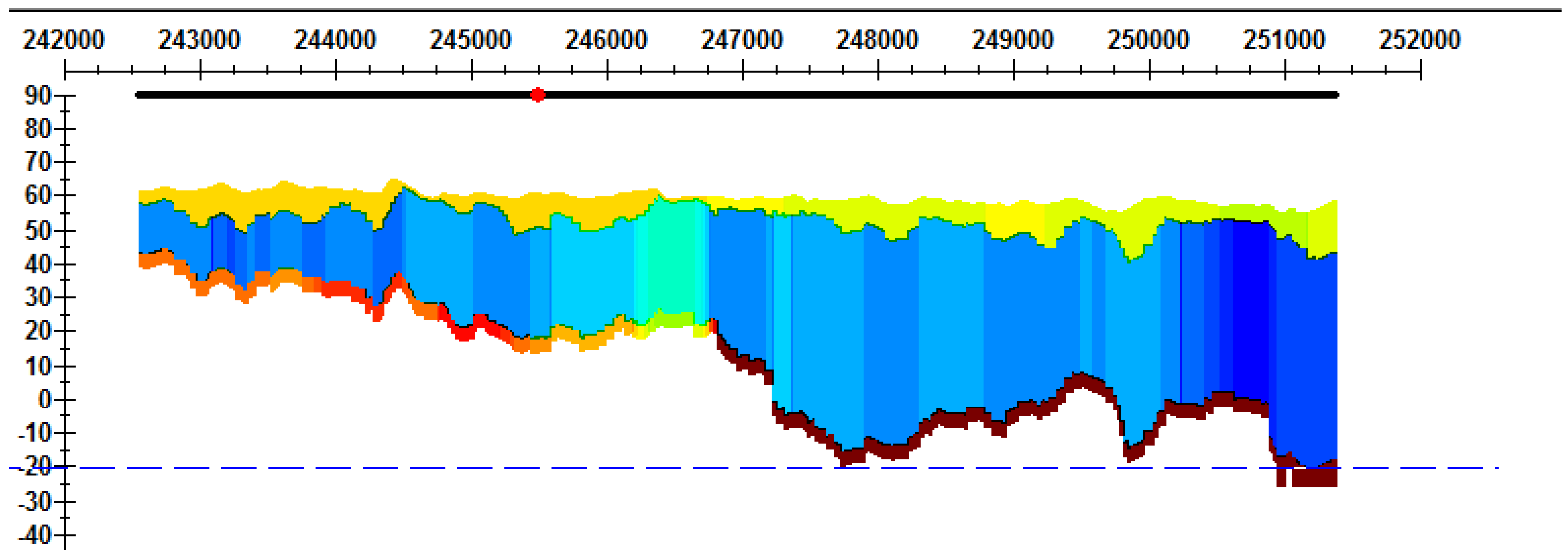


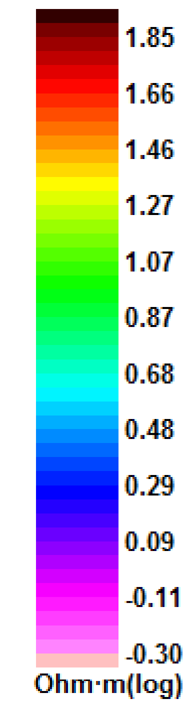
Block 1 TEM Inversions – Log Resistivity

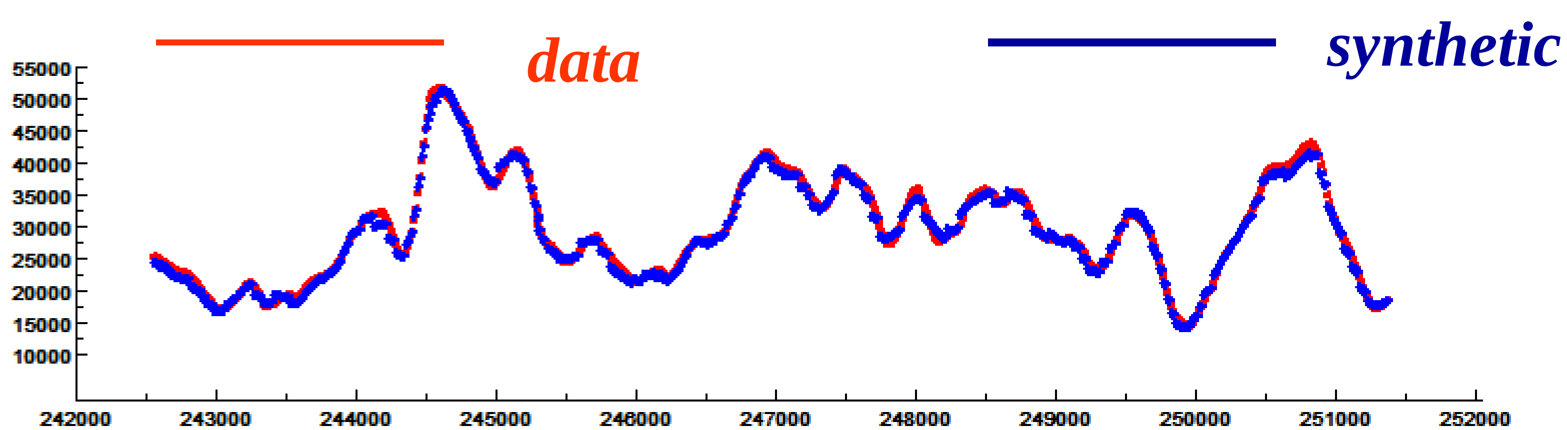
Horizontal:Vertical 1:25

L91030

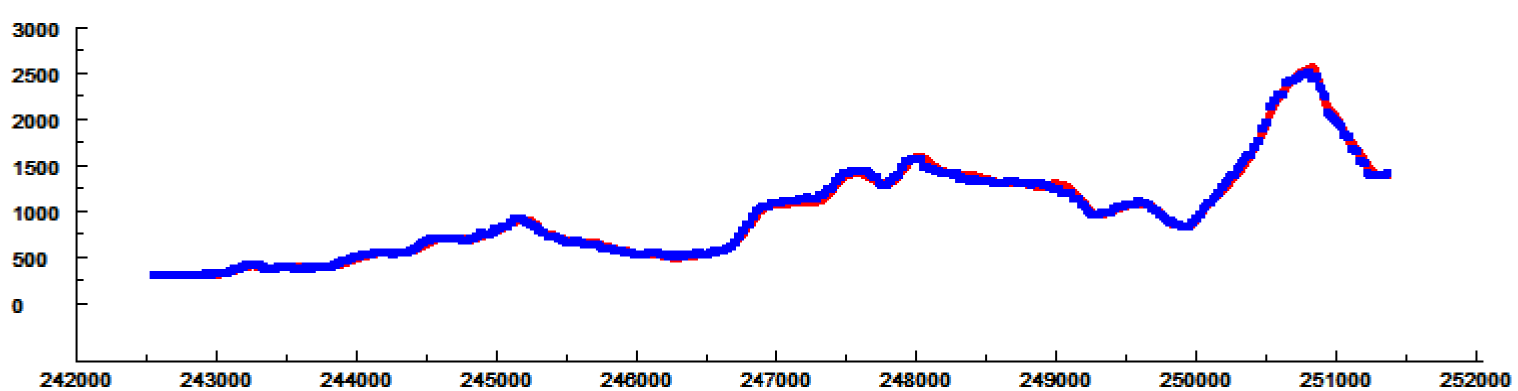
GPSZ







Ch6



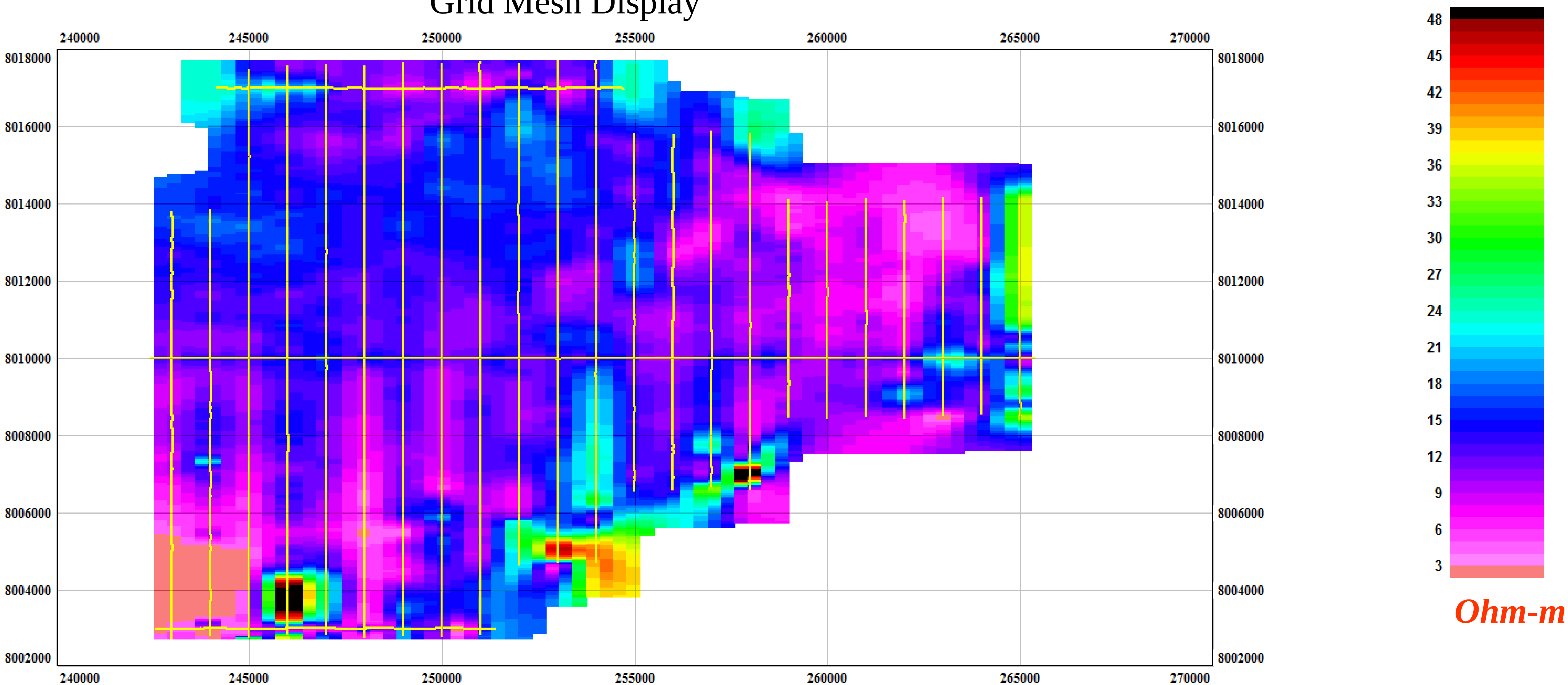
Ch25

easting

Block 1 TEM Inversions – Depth Slices - Resistivity

GPSZ – 50m

Grid Mesh Display

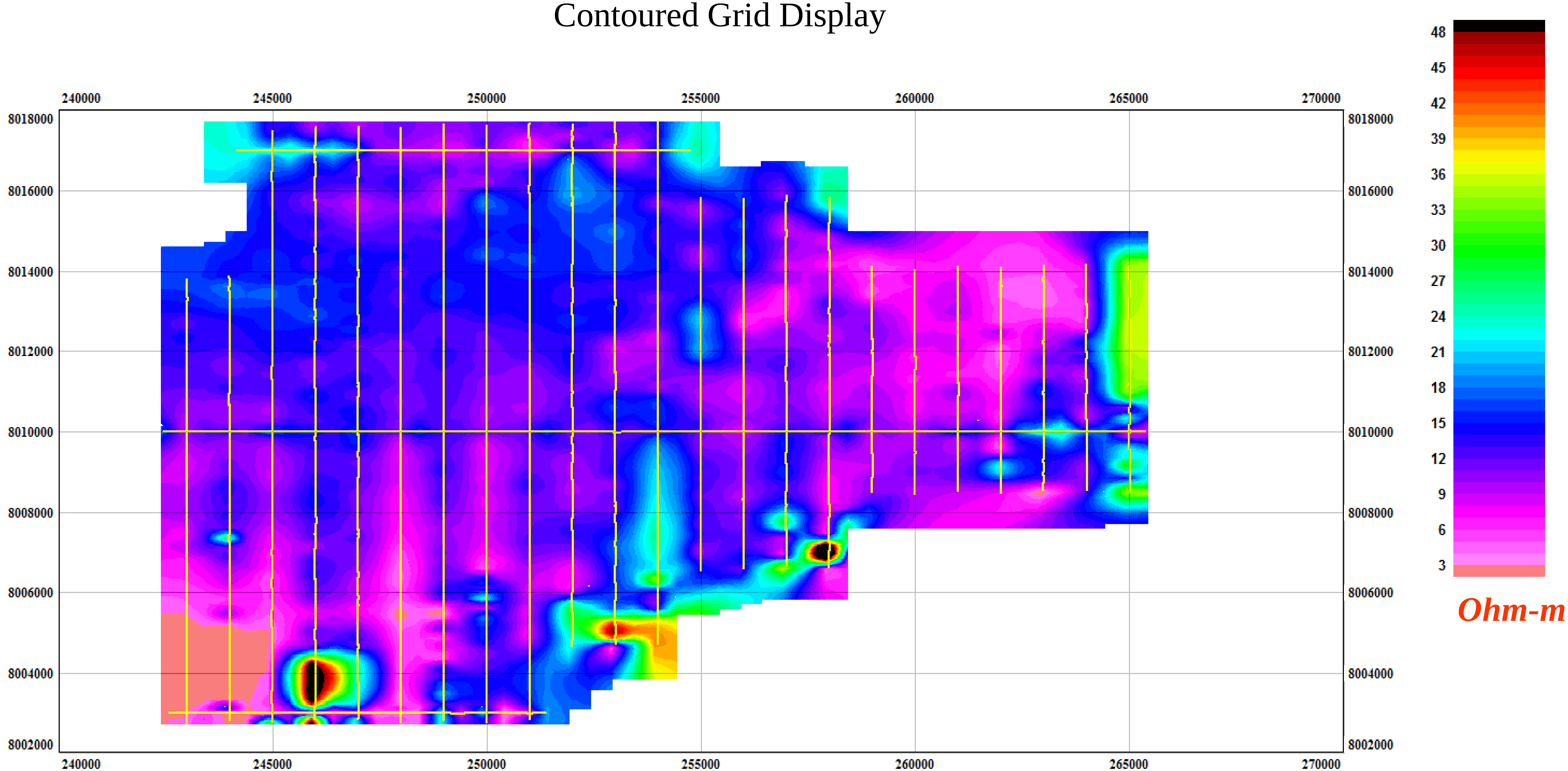


Note: This grid and the following grids, use the tielines as well. The inversion process utilizes multiple stations along each line but not across lines. While some would argue that the inversions should use neighbouring lines, in many mining applications this is not reliable. This grid, however, does provide a quick QC analyses of the data.
We can provide inversions at the intersections which use both the flight line and the tie line if required.

Block 1 TEM Inversions – Depth Slices - Resistivity

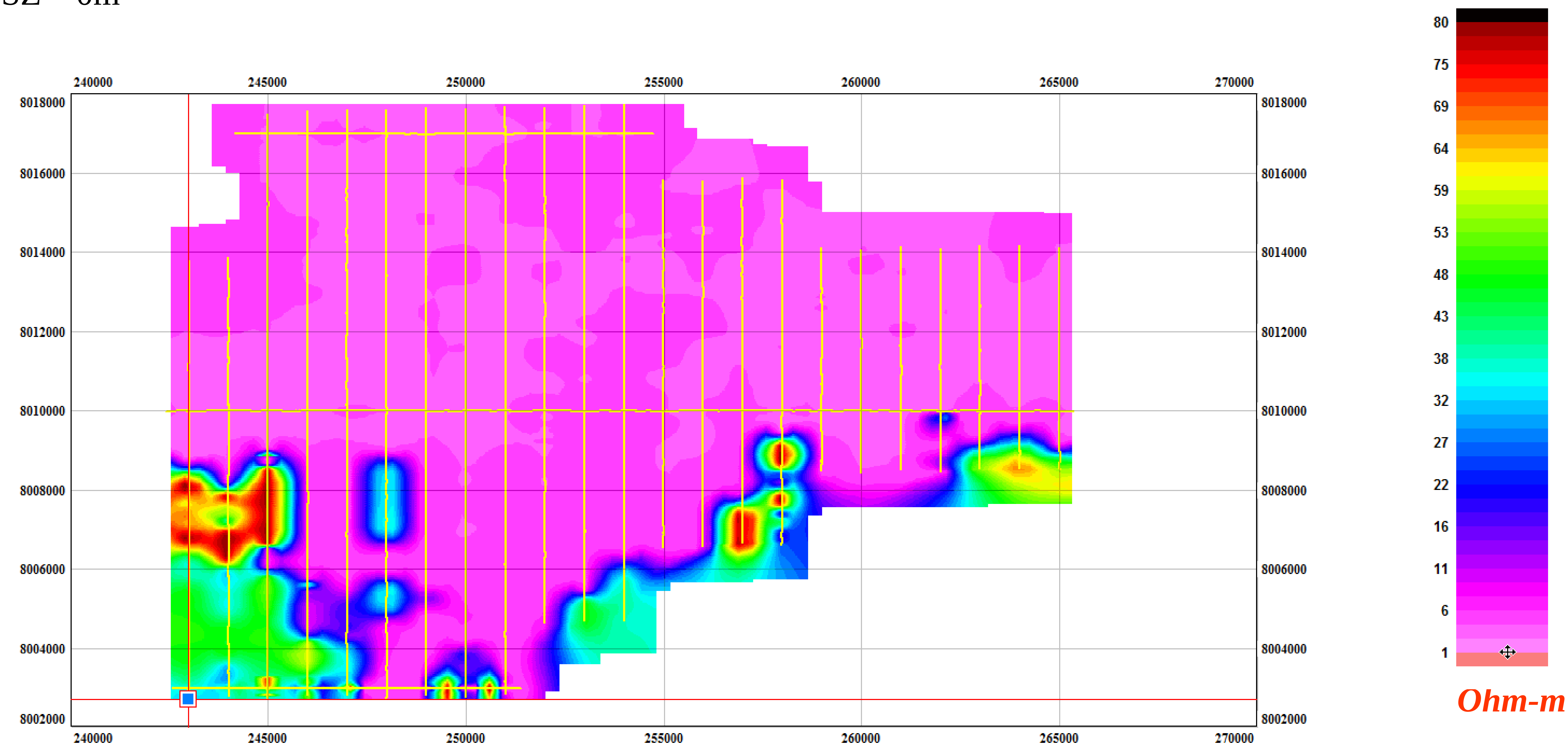
GPSZ – 50m

Contoured Grid Display



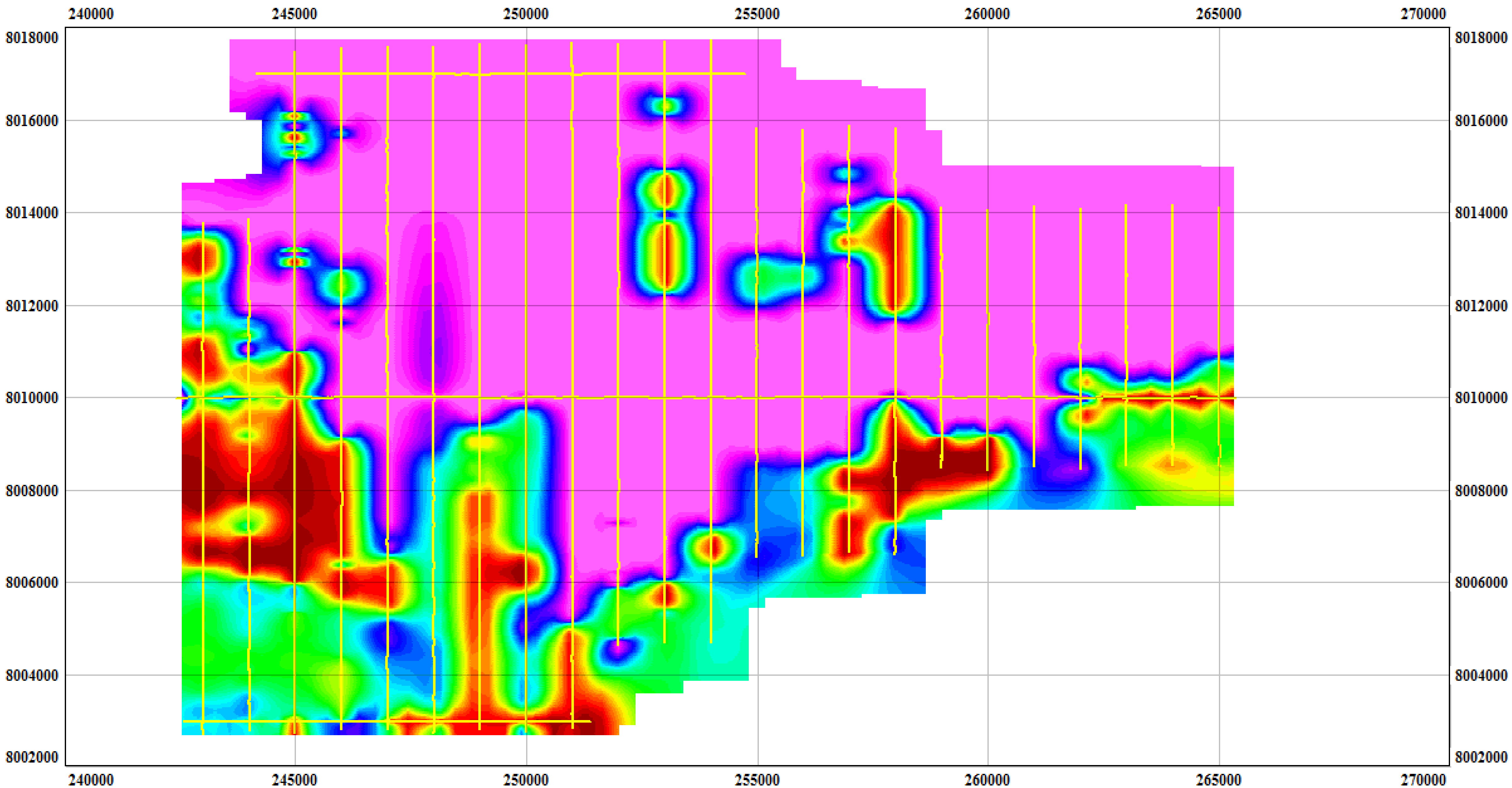
Block 1 TEM Inversions – Depth Slices - Resistivity

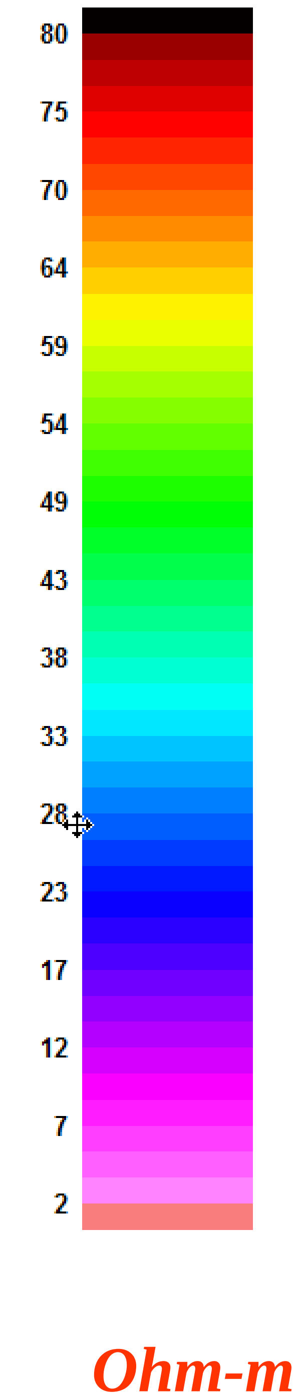
GPSZ – 0m



Block 1 TEM Inversions – Depth Slices - Resistivity

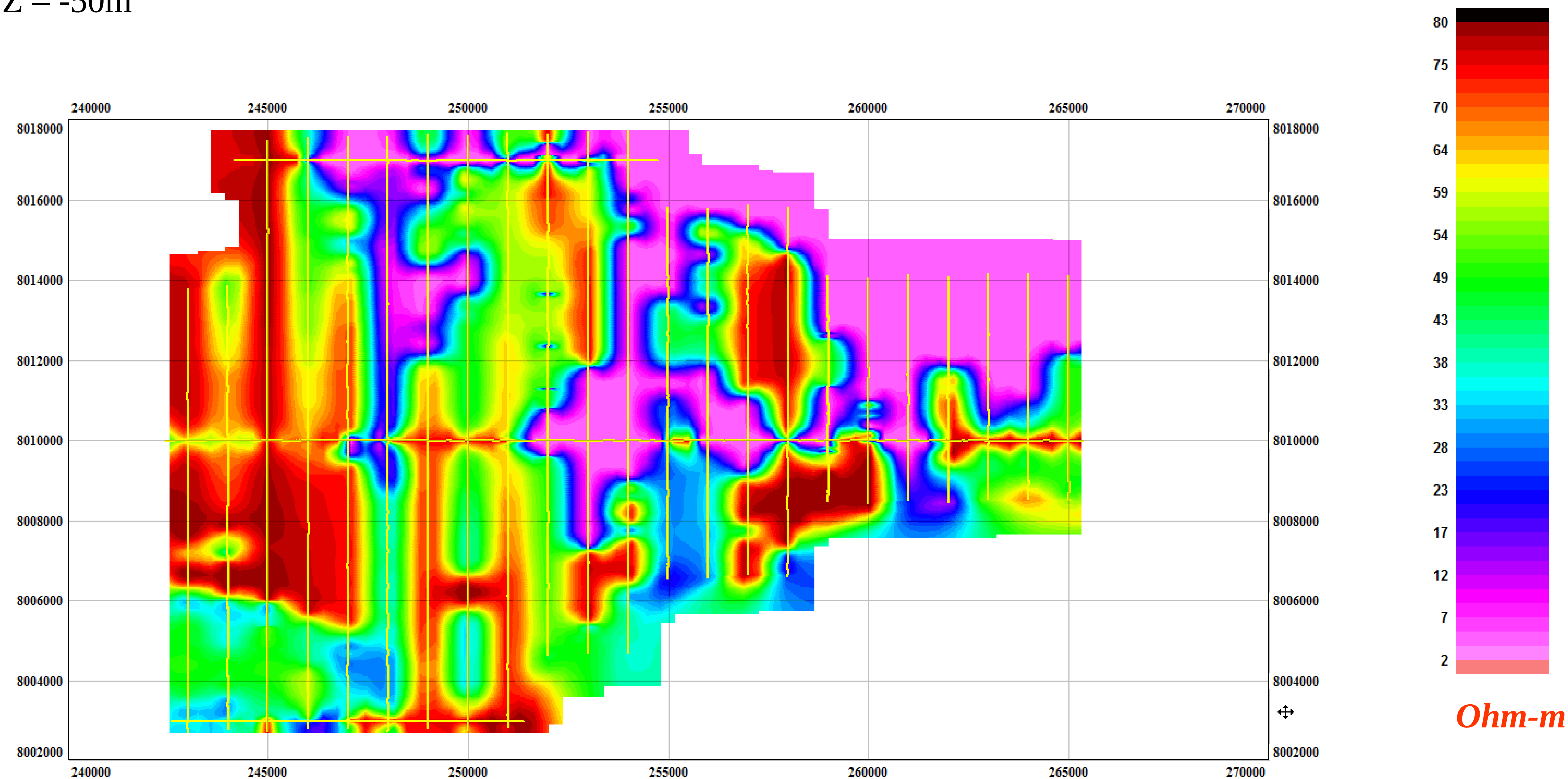
GPSZ – -30m





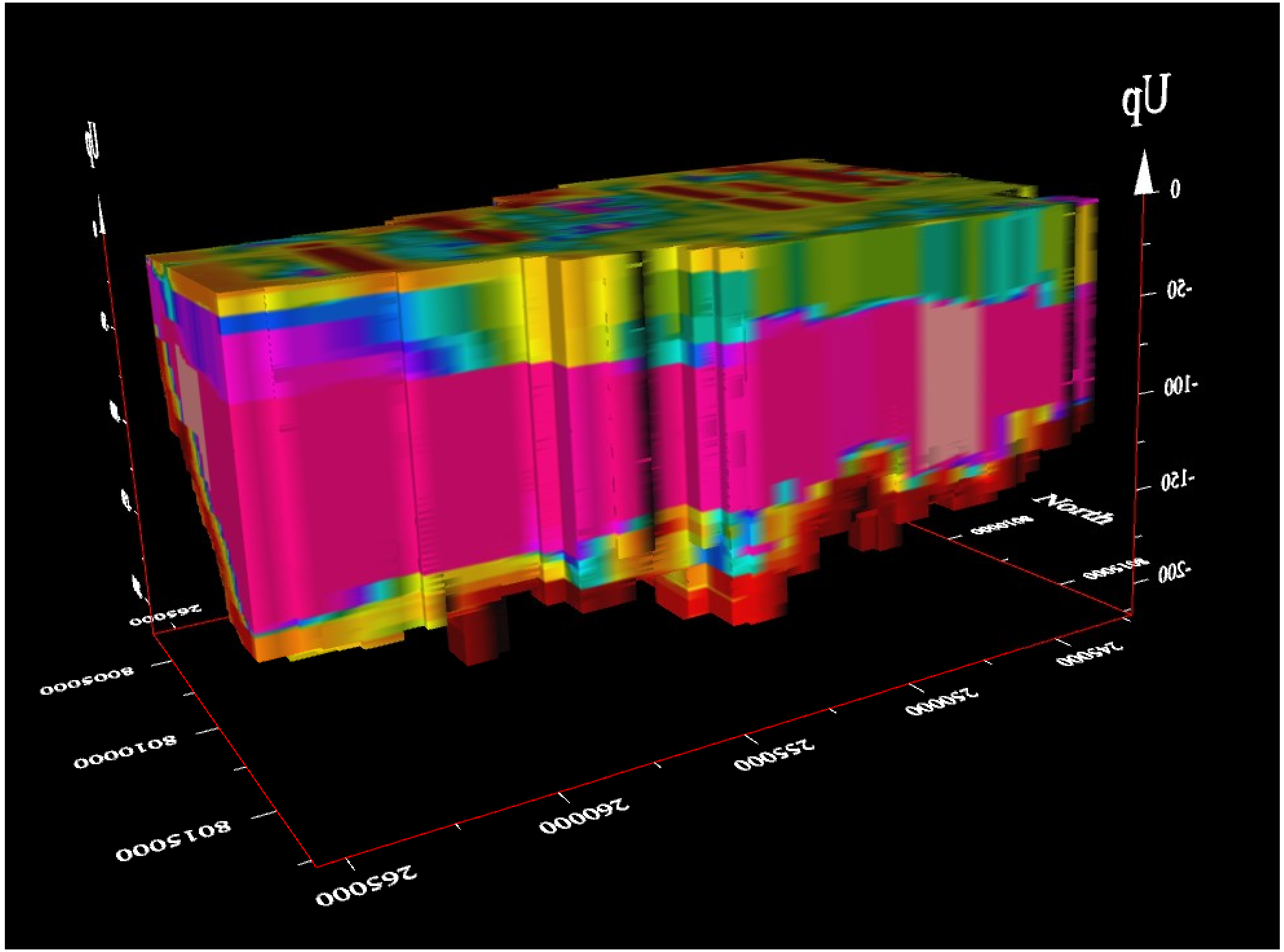
Block 1 TEM Inversions – Depth Slices - Resistivity

GPSZ – -50m



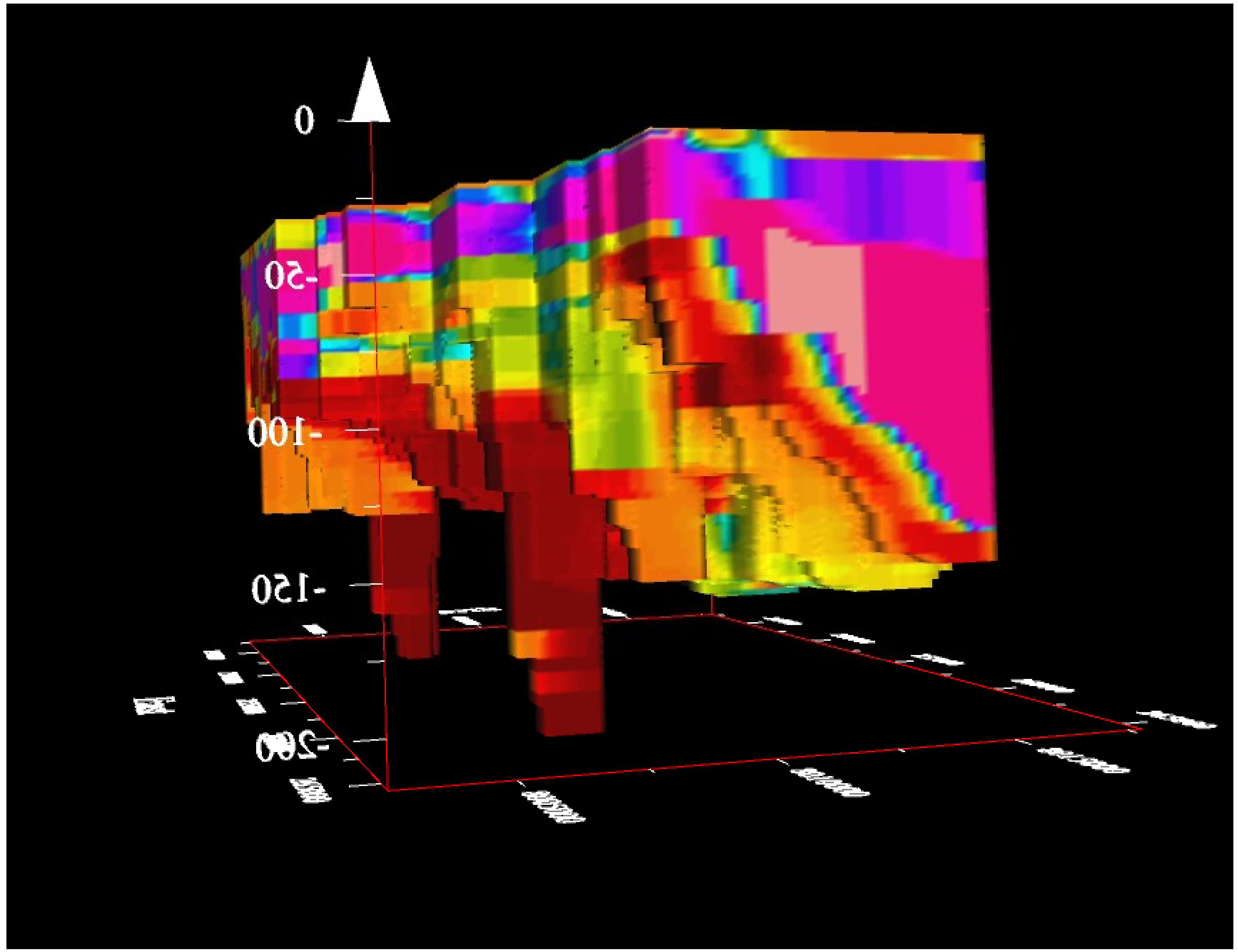
Block 1 TEM Inversions – Volumes Log Resistivity

View from the North in Altitude relative to ground level



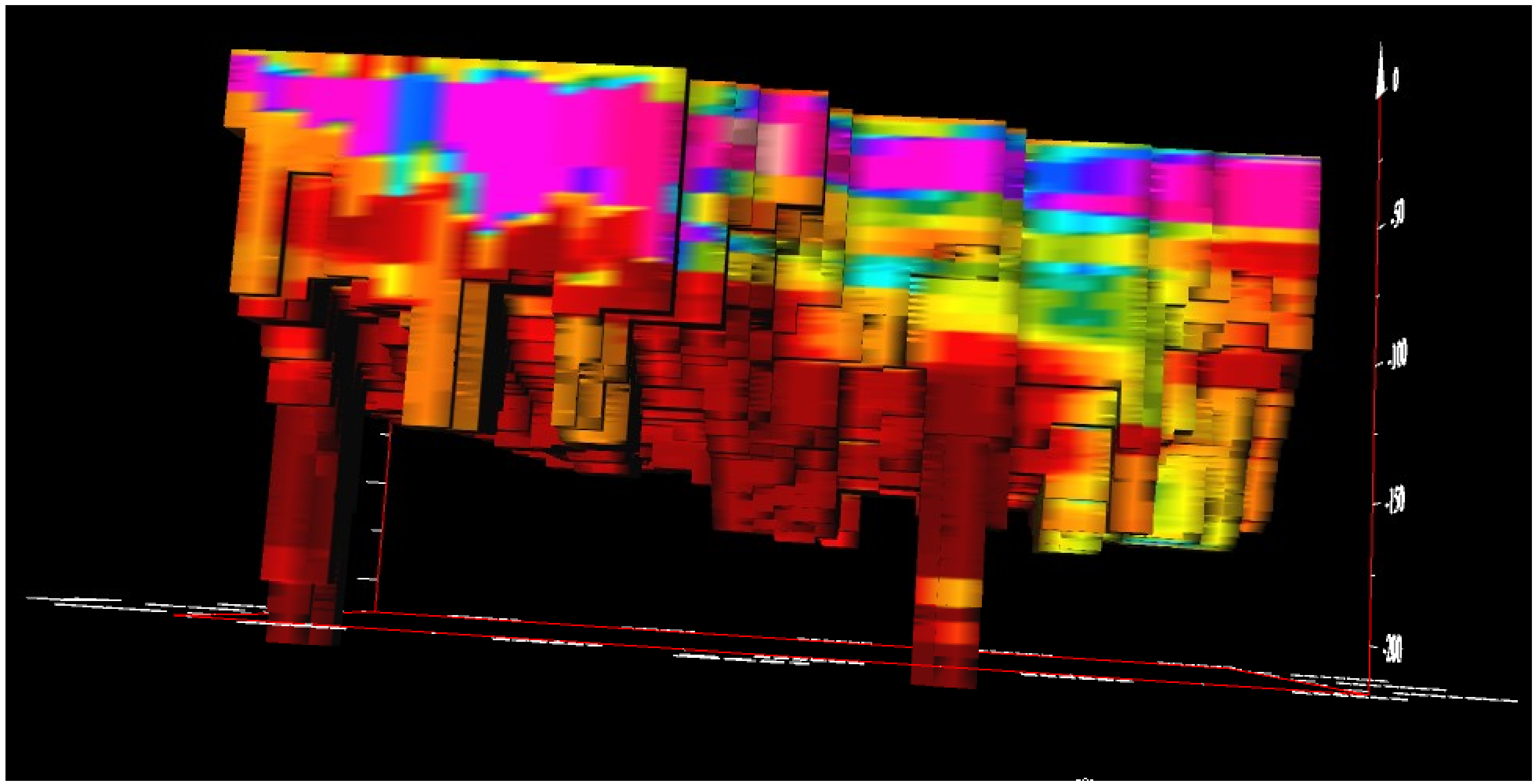
Block 1 TEM Inversions – Volumes Log Resistivity

View from the West in Altitude relative to ground level



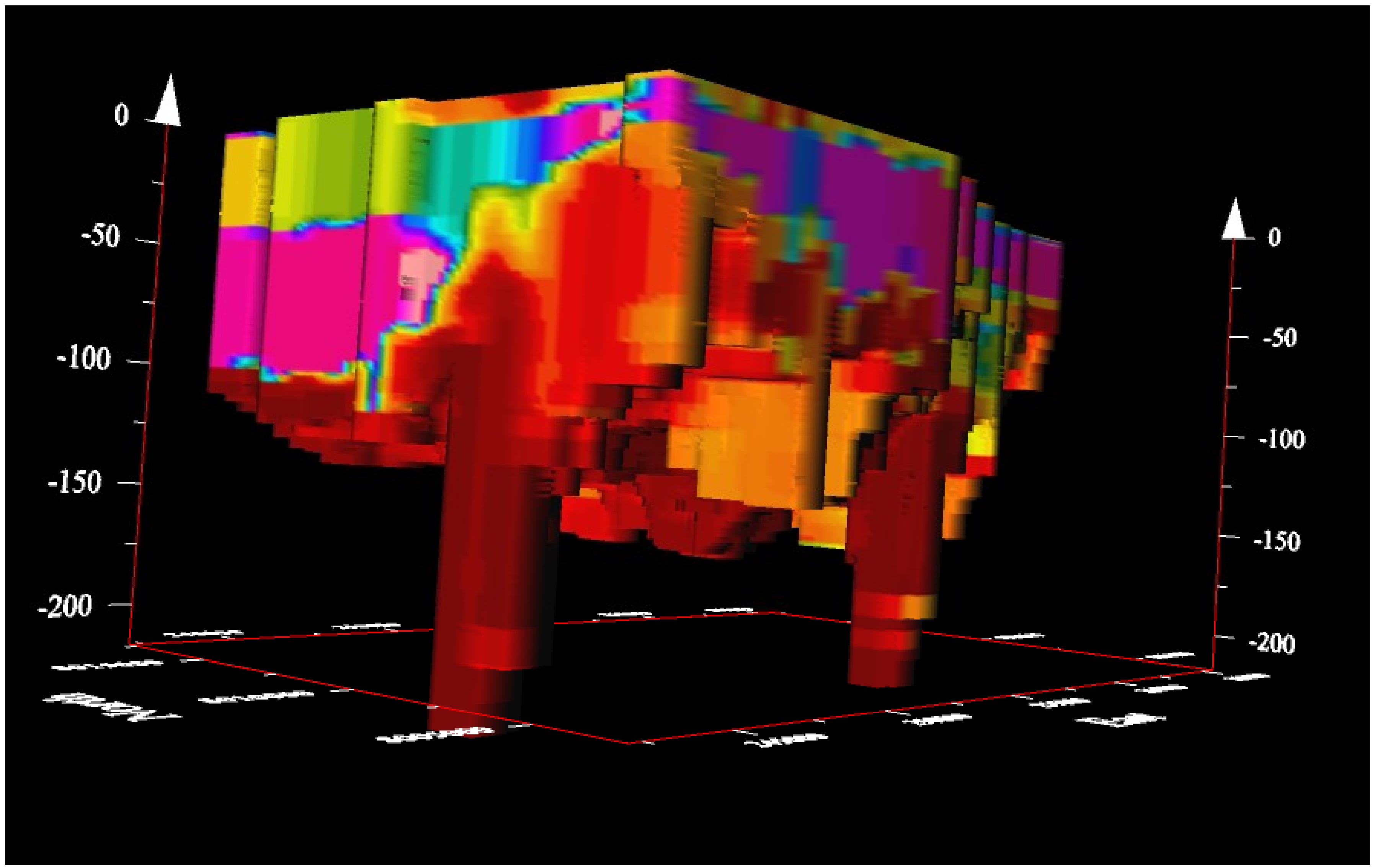
Block 1 TEM Inversions – Volumes Log Resistivity

View from the South in Altitude relative to ground level



Block 1 TEM Inversions – Volumes Log Resistivity

View from the East in Altitude relative to ground level



Block 1 TEM Inversions – Deliverables

1) EMIGMA database where the inversions are attached to the survey data. EMIGMA allows cross-sectional viewing and well as 3D volume viewing with slices. EMIGMA allows export of cross-sectional inversion data as well as depth slices.

/2011/TEM Inversion Results/EMIGMA Database

2) Depth Slices are provided in a QCTool format with a depth slice at each 10m depth.

/2011/TEM Inversion Results/Depth Slices