Surface Protex Survey and Model
R.Groom, 2000

Anomaly Properties
- Center/Top
  - North: 20100
  - Up: 51
  - East: 325
- Dimensions
  - Dip Extent: 200
  - Thickness: 0.01
  - Strike Length: 300
- Material Properties
  - Conductance: 20
  - Susceptibility: 0
  - Permittivity: 1
  - Resistivity: 0.0005
- Geological Angles
  - Strike: 90
  - Dip: 75
  - Plunge: 0
- Number Of Sample Pts: 441
- Model Name: tem5_vh5

All parameters are in SI units
Surface Protem Survey and Model

Sulphide Exploration Target

- 10 NS lines
- 700m x 300m Loop
- 30Hz Base frequency
- .27msec turn-off
- 20 time channels
- 3 components Hx, Hy, Hz
- 300m E-W strike
- 200m depth extent, dipping to North
- 20S conductance
Ch8 Data and Simulated Surface

Data Surface

Simulated Data Surface
Surface comparisons allow viewer to see the overall shape of the response and compare to data. Visualizer allows one to step between time channels and see shape of data surface and simulated surface evolve from Early to Late time.
Hx Component Ch12 Data

Simulated Data

Data

nT/sec

X-East (m)

Y-North (m)
Hx Component Ch12 Data

• Response comparisons of the Hx component
• Hx shows edges more sharply
• Note anomaly to SW corner in data not represented in simulation
• Contour also has semi-animation to see evolution and Decay of targets
• Note how simulated data contours are more open
• Data contours are slightly flatter indicating more precise model fitting is possible
• Data contour shows a connectivity between major and minor targets
Ch4 Hz Line 6 Data vs Model

Profile Fits – Ch4

Decay Fits
Ch4 Hz Line 6 Data vs Model

Data can be examined easily by easy stepping buttons between profiles and time channels

Comparisons to Hz response on Line 6 by position along profile

But also important to examine data decays