

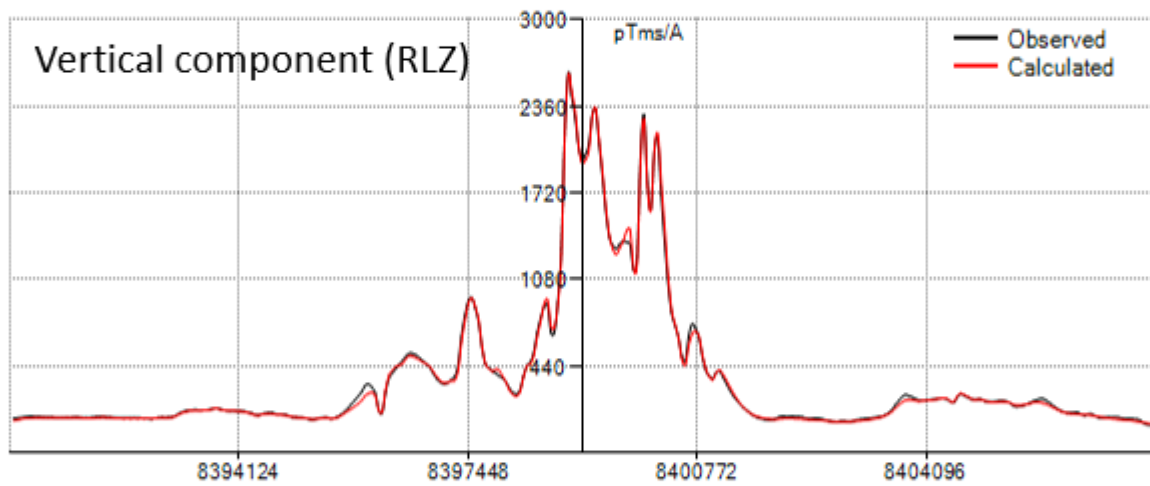
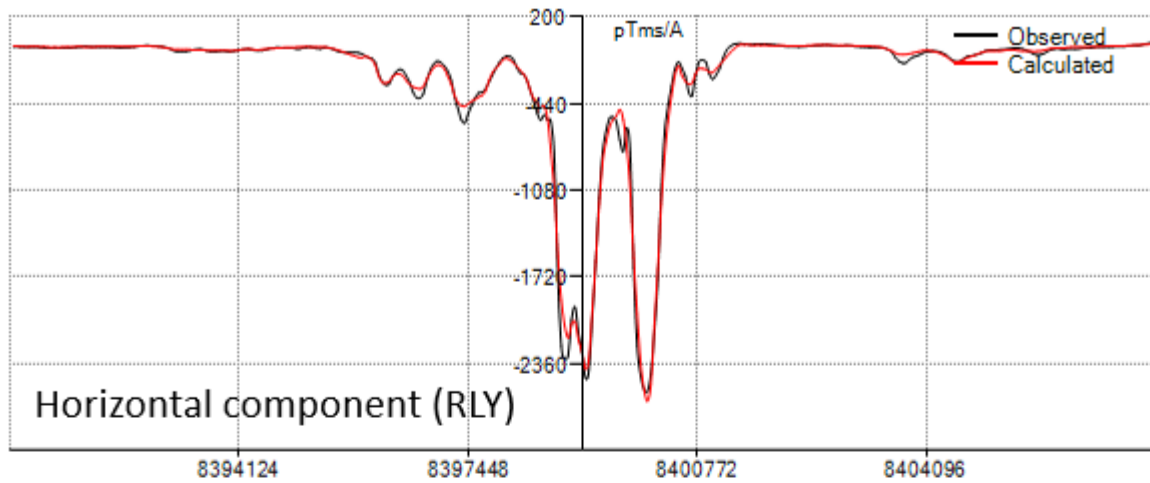
VPem3D v3.39

Fast Approximate 3D TEM Inversion

Release Notes

December 2019

- The linear forward algorithm for AEM data has been modified for slingram systems. Previously the vertical and horizontal components computed by VPem3D were not entirely compatible with one another. This was a reflection of the fact that in an unbounded conductor such as a horizontal layer or a half-space the primary field does not characterise the late time current distribution. As a consequence it was not always possible to invert simultaneously for horizontal and vertical components. However, the new release is achieving a good fit to both components; see figure below illustrating heterogeneous (smooth) inversion of Spectrem data.
- An optimal half-space conductivity can now be determined for both horizontal and vertical component AEM data.
- If the elevation of a ground data point is below the DTM, the data point is now raised to coincide with the DTM; previously the model top was lowered to the receiver elevation.



Conductivity section
(5x vertical exaggeration)

