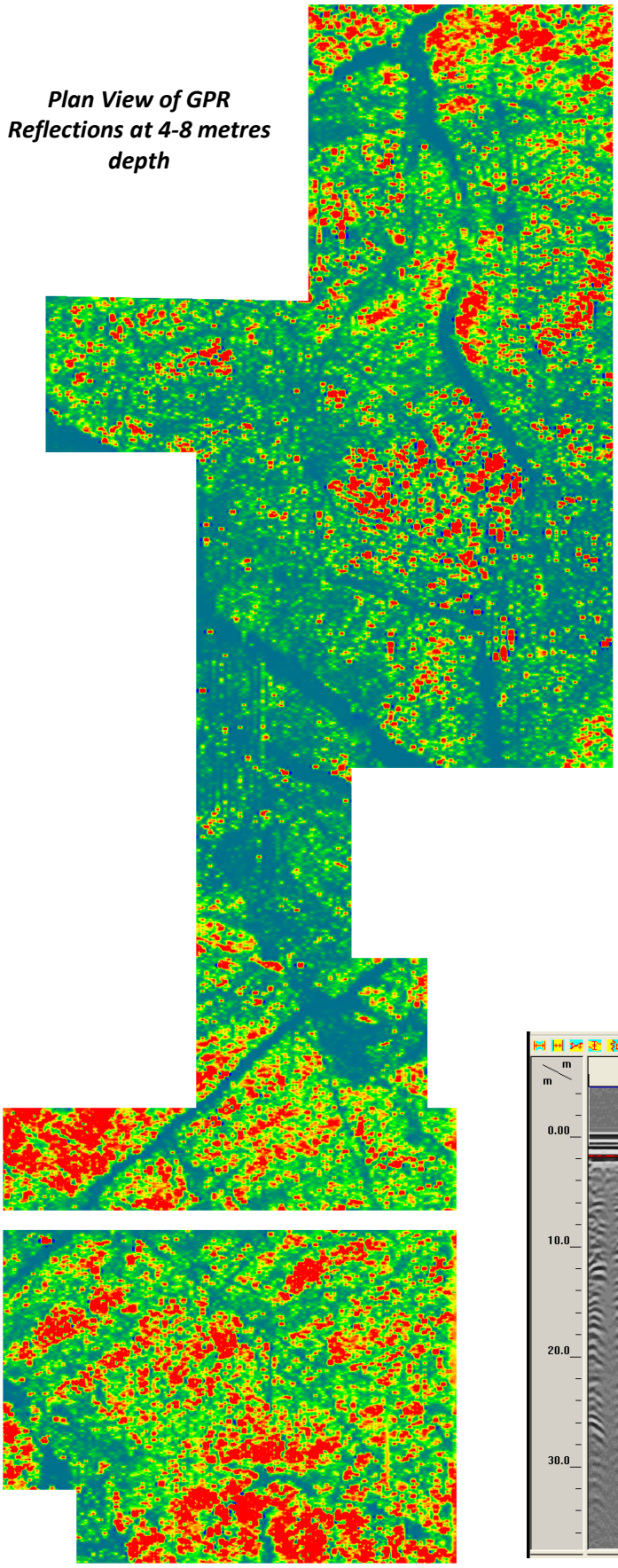
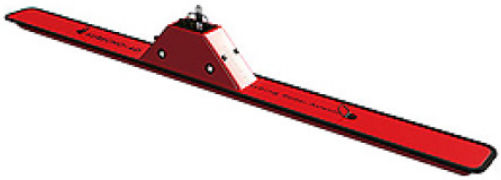
GPR FOR DOLOMITE STABILITY INVESTIGATION

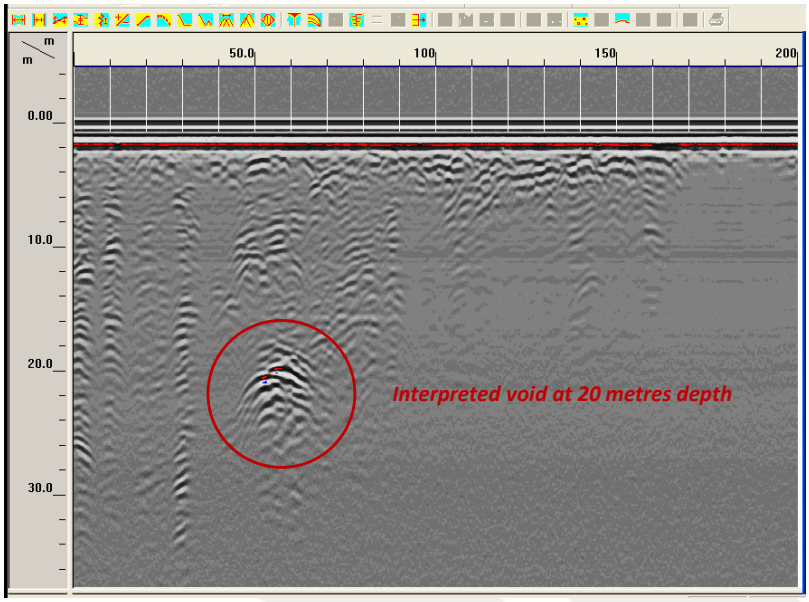
Plan View of GPR Reflections at 4-8 metres depth



A Ground Penetrating Radar (GPR) survey was acquired on a site with shallow dolomite in Pretoria, South Africa. The GPR survey was conducted on a 5-m grid on a 100 hectare area, with a total of 200 linear km of GPR data collected. 3D Processing produced various depth slices which could be used to infer chert-rich and chert-poor dolomite as well as the presence of numerous syenite dykes. Various strong hyperbolic anomalies representing possible cavities were identified.

The 40 MHz antenna is air-coupled and allows for maximum penetration and data acquisition speed.





GPR demonstrated as a technique with very high resolution capability in favourable areas where sufficient penetration can be achieved.

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