

Artificial Intelligence for Airborne IP Detection

Unlock More Value in Your Data

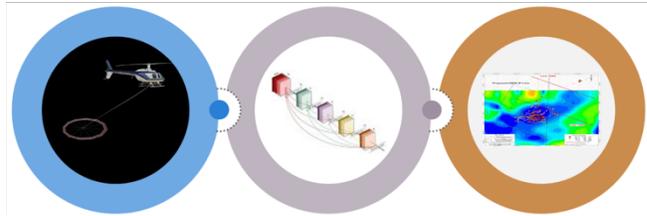
Computational Geosciences offers an innovative solution for discovery and mapping of chargeable targets from airborne electromagnetic data. Detection of buried, chargeable material from the air using artificial intelligence allows for:

- Rapid property assessment for economic sulphide mineralization
- Increased data coverage
- Valuable new information from remote areas

This quick and efficient mapping method can be applied to new or existing airborne EM data, decreasing ground expenditure and accelerating your exploration program.

Fast & Efficient IP Mapping

Induced Polarization (IP) is essential to most exploration programs and has been used in the mineral exploration for decades. This tried and true method typically involves the slow and costly placement of equipment and personnel on the ground.



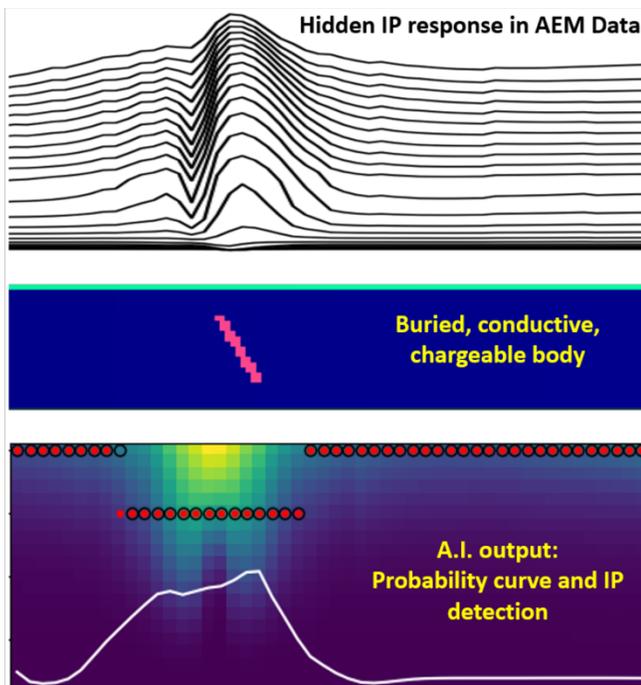
An exploration advantage is now provided by extracting IP information from airborne electromagnetic (AEM) data prior to deploying a ground crew.

IP effects can show up in AEM data as distortions to the dB/dt decay. These distortions can sometimes be easy to detect, especially for surficial features, using “quick and dirty” methods. However, many anomalies are missed, and false positives produced.

Leading Edge AI Technology

CGI’s proprietary AI V-Net convolution neural network is trained to accurately detect the presence of chargeable material even at depth where the IP response is subtle and indistinguishable to the naked eye.

CGI’s leading-edge AI algorithms are versatile and innovative and can be tailored to the geologic setting and exploration objective to produce accurate and meaningful targets for your company. These services, combined with CGI’s extensive experience and expertise in geophysical modelling, helps you get the most value from your data in an effective and cost-efficient way.



Detect IP signatures which would otherwise be hidden in a standard EM response

