

may cause the system to be grounded because excessive bird swinging produces difficulties in flying the helicopter. The swinging results from the 5 m² of area which is presented by the bird to broadside gusts. The DIGHEM system nevertheless can be flown under wind conditions that seriously degrade other AEM systems.

It should be noted that the anomalies shown on the Electromagnetic Anomaly map are based on a near-vertical, half plane model, which best reflects "discrete" bedrock conductors. Wide or deep bedrock conductors, or flat-lying conductive units, whether from surficial or bedrock sources, give rise to broad anomalous responses on the EM profiles, but may not appear on the Electromagnetic Anomaly map, as they do not meet the criteria for "discrete" conductors. These broad conductors, which more closely approximate a half space model, will be maximum coupled to the horizontal (coplanar) coil pair and should be evident on the resistivity map. The Resistivity map, therefore, may be more valuable than the Electromagnetic Anomaly map, in areas where broad, deep, or flat-lying conductors are considered to be of importance.

In areas where magnetite causes the inphase components to become negative, the apparent conductance and depth of EM anomalies may be unreliable.