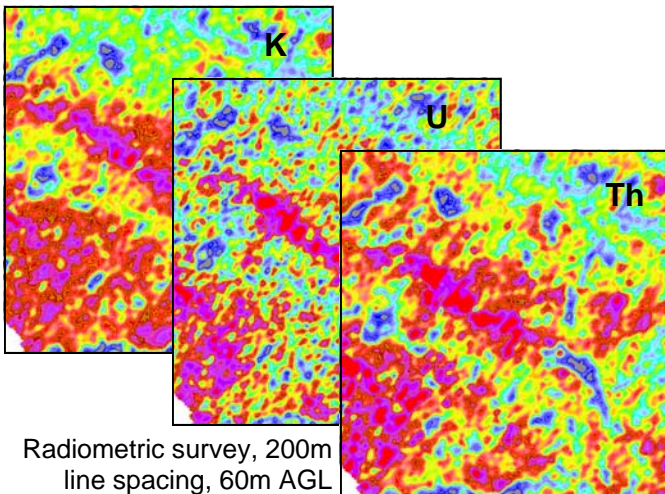
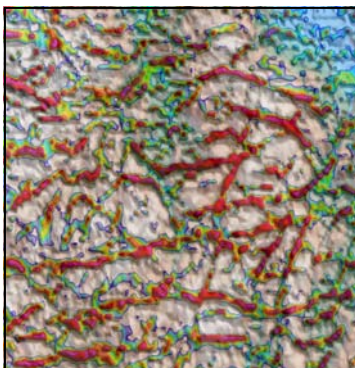


Horizontal Magnetic Gradient Survey, 125m line spacing, 60m AGL  
Nelson Total Magnetic Field and Vertical Gradient



Radiometric survey, 200m line spacing, 60m AGL



**VLF-EM** is an inexpensive add-on for mapping near surface conductive features; massive sulphides, shear zones and faults. Shown is the combined Total Field from Cutler Maine and Seattle Washington.

### Fixed Wing High Resolution Surveys

- Magnetic
- Horizontal Magnetic Gradient
- Radiometric
- VLF-EM
- Preplanned Drift flying

### Applications

- Base and precious metal exploration
- Kimberlite exploration
- Uranium exploration
- Anomaly targeting
- Geological mapping
- Oil and gas exploration

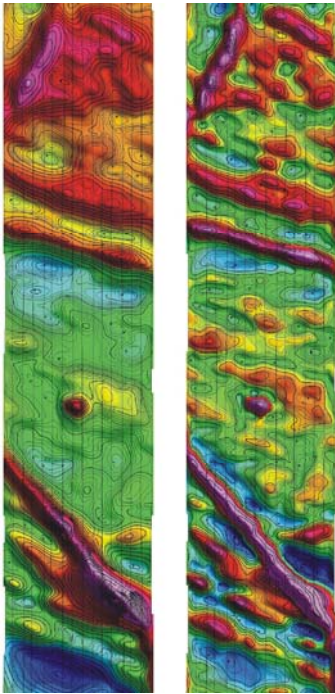
### Aircraft/Equipment

- Diamond DA42 Twin Star
- Advanced composite airframe, glass cockpit
- Smooth and quiet twin turbo diesel engines
- 2 sensor horizontal gradiometer, 16.2m separation
- Extremely fuel efficient, 7 hour sorties
- Survey speed as slow as 90kts / 167kph / 46mps
- Survey height as low as 35m
- Real-time DGPS navigation
- Digital flight path video
- High-resolution cesium magnetometers
- 256 channel gamma-ray spectrometer



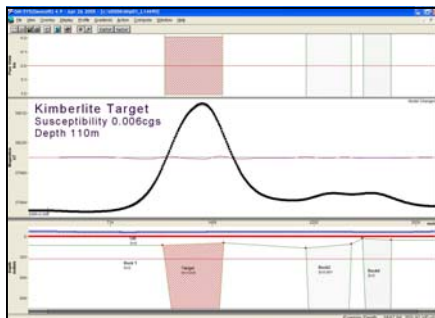
### Major Clients

- Bayswater Uranium Corporation
- Stornoway Diamond Corporation
- Strongbow Exploration Inc.
- Peregrine Diamonds Ltd



**Anomaly Targeting**  
 for fast accurate evaluation of localized areas of interest identified from regional surveys. Several targets can be surveyed in a single flight with line spacing as tight as 50m and heights as low as 35m. No tie lines required and no downtime for active diurnal with horizontal gradient leveling (Nelson Method: Leveling total-field aeromagnetic data with measured horizontal gradients).

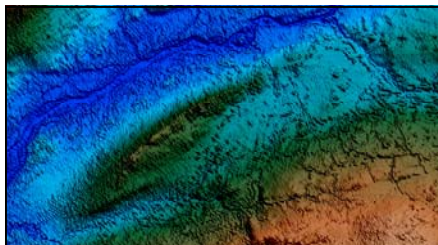
Nelson total magnetic field and vertical gradient, 100m spacing



GM-SYS model of Kimberlite Pipe



Digital Video showing old barn



DEM from GPS Z and radar altimeter

We are a small company and only operate one field project at a time so that all our attention is focused on your survey. Our two principals are in the field collecting and processing your data. Our senior geophysicist has 30 years of airborne experience in conducting, managing and processing magnetic, radiometric and electromagnetic surveys in North and South America and Africa. Our operator has logged over 3,000 hours in our various survey aircraft. Your survey and satisfaction are our number one priority.

Since incorporation in 2004 we have flown over 400,000 line kilometres of horizontal magnetic gradient in most of the diamond districts of Canada. We have also flown 77,000 kilometres of combined horizontal magnetic gradient, radiometrics, and VLF-EM in the Thelon Basins, Northern Saskatchewan and Northern Quebec.

### Processing

- Oasis Montaj and custom routines
- Enhanced gridding with transverse horizontal gradient
- C3NavG2 and HeadRT+ for post flight GPS processing
- Praga3 full spectrum radiometric processing
- Nelson magnetic field from the diurnal free horizontal gradients eliminates any downtime for diurnal activity
- In-field processing for next day preliminary grids

### Products

- Nelson total magnetic field and vertical gradient
- Optional enhanced magnetic products for geological interpretation: analytical signal, total horizontal derivative, tilt derivative, 2<sup>nd</sup> vertical derivative, susceptibility
- Digital terrain from radar altimeter and GPS-Z
- Radiometric total count, potassium, uranium, thorium, ratios, ternary
- Digital flight video for quick cultural anomaly checking
- Magnetic modeling of selected anomalies using GM-SYS

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