Estimating Water Quality Along the Southwest Florida Coast for Hydrologic Models Using Helicopter Electromagnetic Surveys

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**Introduction**

Helicopter electromagnetic (HEM) data can be used to study the geologic structure of the surficial aquifer system in the coastal United States. HEM data have been used for hydrologic modeling in Louisiana, Florida, and the eastern United States. In this study, HEM data were collected along flight lines covering an area of approximately 300 km² along the coast near Everglades National Park (Fitterman and Deszcz-Pan, 2001). The data were collected during a December 1994 survey, and the maps were interpreted to show the geologic structure of the shallow subsurface.

**How HEM Works**

HEM data were collected using a helicopter taking off with electromagnetic sensors on the tail. The data were collected along flight lines covering an area of approximately 300 km² along the coast near Everglades National Park. The data were collected during a December 1994 survey, and the maps were interpreted to show the geologic structure of the shallow subsurface.

**Interpretation of HEM Data**

The HEM data were interpreted to show the geologic structure of the shallow subsurface. The data were collected using a helicopter taking off with electromagnetic sensors on the tail. The data were collected along flight lines covering an area of approximately 300 km² along the coast near Everglades National Park. The data were collected during a December 1994 survey, and the maps were interpreted to show the geologic structure of the shallow subsurface.

**Summary & Conclusions**

The HEM data were interpreted to show the geologic structure of the shallow subsurface. The data were collected using a helicopter taking off with electromagnetic sensors on the tail. The data were collected along flight lines covering an area of approximately 300 km² along the coast near Everglades National Park. The data were collected during a December 1994 survey, and the maps were interpreted to show the geologic structure of the shallow subsurface.

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