



### Geographic Decisions

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| <b>Project:</b>  | <b>Wildland Urban Interface Fires Risk Assessment: GIS/Mapping</b>   |
| <b>Location:</b> | Municipality of Anchorage, Alaska  |
| <b>Client:</b>   | Municipality of Anchorage: IT Department<br>632 West 6th Avenue<br>P.O. Box 196650<br>Anchorage, AK 99519-6650                                       |
| <b>Contact:</b>  | Mr. Charles E. Barnwell – <u>(907) 343-6813</u><br>Electronic Mail: <a href="mailto:barnwellce@ci.anchorage.ak.us">barnwellce@ci.anchorage.ak.us</a> |
| <b>Duration:</b> | March 2001-June 2002   |

IGIS Technologies, Inc. (IGIST) was contracted to help achieve the following objectives: generate a landcover classification derived from TM and IKONOS data, assess the forest fuel structure in Anchorage's wildland/urban interface areas, and produce a relative wildfire risk map.

IGIST, Municipality of Anchorage, DNR, and Anchorage Fire Department determined data inputs. IGIST then created a GIS spatial model that used the following key inputs: Vegetation classification (Satellite image based), Slope, Aspect, Spruce beetle kill areas, Distance to Roads, Distance to nearest water source, and population density.

#### **Key Personnel:**

**Andres Abeyta**  
GIS spatial modeling

**Arman Eshraghi**  
Image Processing

**Jason Geck**  
GPS Field Sampling

#### **Key Components:**

- Satellite Imagery Classification
- GPS Field Work
- Development of Spatial models
- Fire Risk mapping

