

## **Spatial Data Branch Mission Statement**

### **Organization**

The Spatial Data Branch, Operations Division, Mobile District is composed of engineers, physical scientists, GIS and remote sensing specialists, hydrographers, and cadd technicians that provide a broad, integrated, team-oriented capability for spatial data collection, processing, and analysis.

### **SHOALS**

The Scanning Hydrographic Operational Airborne Lidar Survey (SHOALS) system is a fully operational hydrographic survey system capable of surveying a variety of project types. It is owned by the US Army Corps of Engineers (USACE) and operated by John E. Chance & Associates, a member of the Fugro group of companies. Since starting operations in March 1994 it has successfully completed over 225 projects ranging in size from a few km<sup>2</sup> to over 800 km<sup>2</sup>. The system, operated from either a rotary or fixed wing aircraft, is capable of collecting 400 measurements per second spaced at either 4-meter or 8-meter grid density providing coverage of 14 km<sup>2</sup>/hr to 30 km<sup>2</sup>/hr. The data accuracy meets US Army Corps of Engineers (USACE) Class I engineering survey standards and IHO Order 1 depth measurement standards.

### **Geographic Information Systems**

The Mobile District provides a range of GIS services, including, but not limited to, mapping and surveying, data conversion, Internet mapping, database maintenance, software customization and integration, training, implementation, and other GIS services as required. Deliverables have included Fort Buchanan Facilities GIS, Italian Coastal GIS, Panama Canal Zone Facilities and Land Use GIS, Regional Sediment Management Demonstration program, and web-based mapping of Black-Warrior Tombigbee River Navigation GIS.