



*Accuracy, Integrity, Service*

# Aerial High-Definition Surveys

## Vessel Management and Observer Services

### Client :

Normandeau Associates, Inc.  
25 Nashua Road  
Bedford, NH 03110  
(603) 472-5191

### Performance Period:

2010

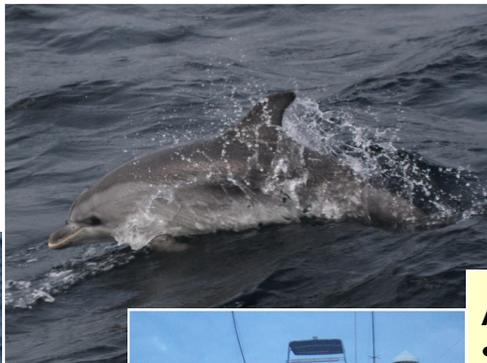
### Key Services Provided:

- Project Management
- Literature Review and synthesis of boat based surveys for marine mammals and sea turtles
- Survey design, testing and training
- Vessel charter acquisition and management
- Logistical planning and support
- health and safety plan development and implementation
- Report writing
- Marine Mammal Observation Services during data collection phase
- Species identification
- Data entry and QA/QC



In 2010, A.I.S., Inc. was contracted by Normandeau Associates, Inc. to provide vessel charter management and marine mammal/ sea turtle observer services for an aerial high-definition pilot study funded by the Bureau of Ocean Energy Management, Regulation and Enforcement (BOEMRE). The goals of the study were to test the effectiveness of high-definition camera systems and software for use in surveys of seabirds, marine mammals and sea turtles and the development of survey methodology to utilize the technology for a coastal survey of the outer continental shelf from

Florida to Maine. The pilot study was staged out of Oak Island, North Carolina. Over twenty-five participants from five additional sub contractors provided technical support and expertise to Normandeau Associates Inc.



### Additional Subcontractors:

- Boulder Imaging, Inc: *Camera System Design and Software*
- Gemini Renewables: *Technology Development Director*
- ECOES: *Survey Design and Aerial MMO's*
- Pinnacle 1 Aviation, LLC: *Pilots, Aircraft, Support*
- Voyager Fishing Charters, LLC: *Vessel Charter and Crew Services*

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