LIDAR Littoral Studies Workshop

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Welcome
Monterey Bay Remote Sensing Consortium

• Workshops designed to inform, and build our remote sensing community
  – Develop new tools and techniques for more effective research
  – Develop new research areas that can be funded
  – Link civil and military projects – greater gain for local community in scientific and monetary pursuits

Why are we here?
Sponsorship

- Congressional funds from Congressman Farr are supporting this workshop, particularly the time of Ms. Steenbergen, who has done most of the organizing.

- Monterey Bay Aquarium Research Institute (MBARI) – graciously allowing use of their wonderful facility.
Program

• Introduction to LIDAR – Optech
• Bathymetric LIDAR – Stennis
• Applications and Techniques
  – Philpot
  – Streutker
  – Chen
• Software – Kao
  – NPS students – QT Modeler
• Lunchtime discussion – how to apply LIDAR to research topics of local interest
Grungy Details

- Break at 10:00, Lunch at 12:00, Break at 13:40
- Restrooms off to the right
Future Plans

• Workshop topics being developed
  – Synthetic Aperture Radar (SAR)
    • Oceanographic and terrestrial applications – tentative date – July 12
  – Spectral Imaging
    • Focus on atmospheric compensation how-to
  – Thermal Imaging
    • Can this technology be useful for civil applications?
Schedule

• 08:00 - 08:25 Meet and Greet
• 08:25 - 08:35 RC Olsen Welcome to the Workshop
• 08:40 - 09:15 Optech, Inc. Introduction to LIDAR Systems
• 09:20 - 09:55 CE Wiggins Airborne LIDAR Bathymetry
• 10:00 - 10:25 Break
• 10:30 - 11:05 W Philpot Lidar Bathymetry in Very Shallow Waters
• 11:10 - 11:45 D Streutker Change Detection with LiDAR Data
• 12:00 - 13:00 Lunch
• 13:00 - 13:35 Qi Chen Mapping Terrain and Forest Information
• 13:40 - 14:05 Break
• 14:10 - 14:45 Optech, Inc.
• 14:50 - 15:25 David Kao LidarVis: An Interactive Visualization Tool
• 15:30 - 15:50 RC Olsen Conclusion / Future Workshop Plans