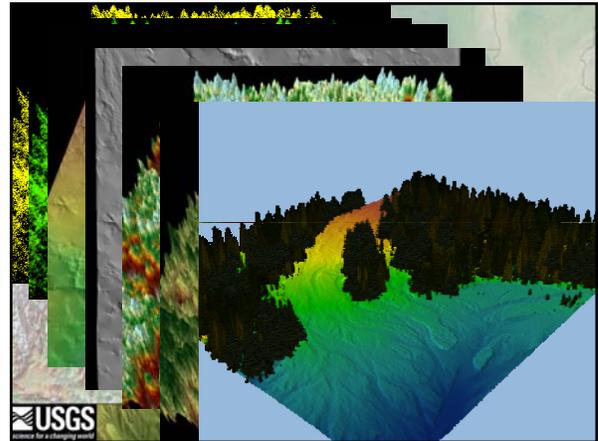
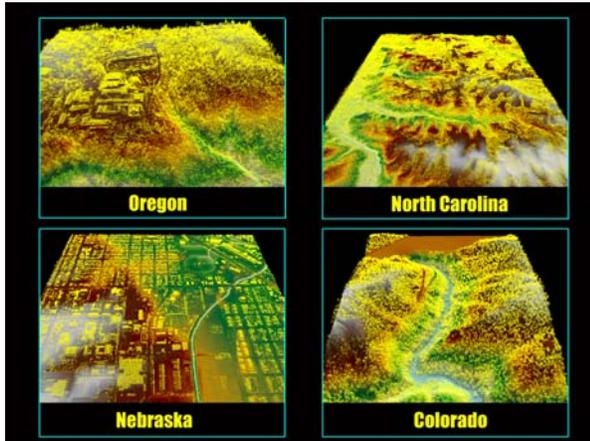
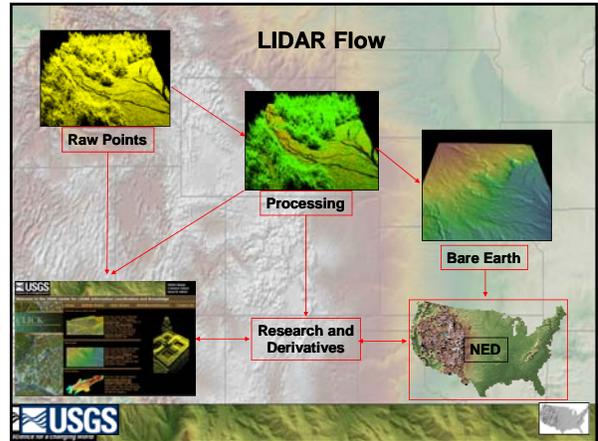


Data Sharing and Management

Jason Stoker
SAIC, contractor to USGS EROS

CLICK

- Received funding to form USGS Center for Lidar Information Coordination and Knowledge.
- Virtual center, but housed at EROS.
- To take advantage of existing Lidar data and information for scientific (non-mapping) research needs nationwide.
 - Data will be processed & input into NED if not already done



CLICK: Good for Science

- The limiting factor for using LIDAR for scientific applications is **Expense**.
 - usually research projects cannot acquire the funds necessary to get LIDAR collected for their specific research applications.
 - Consortium approach
- Limited amount of LIDAR-related help for those who are interested in incorporating data into science.



CLICK: Good for Management

- The hope is that by improving communication about LIDAR data collections, we may help reduce redundant or unnecessary spending in government by leveraging LIDAR data that can be used for more than one single application.



CLICK: Mission

- CLICK's mission is to facilitate data access, user coordination, and to educate the science community about the value of LIDAR in their projects.



<http://lidar.cr.usgs.gov>

- Web portal
- Provide information and points-of-contact for people interested in using lidar in certain areas, or with certain agencies.
- Identify scientists, cartographers, and geographers who could help with someone's lidar needs.
- Provide information on where data exists, including metadata.
 - Geographical location as well as where it can be physically obtained, if not disseminated here





CLICK: Structure

The **CLICK** virtual center web portal is broken into three parts:

- Information**
- Coordination**
- Knowledge**

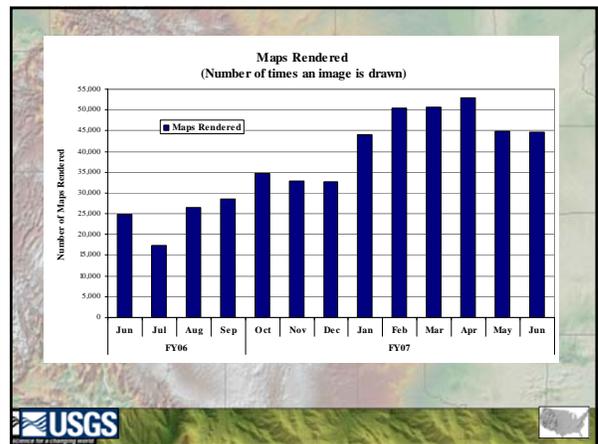
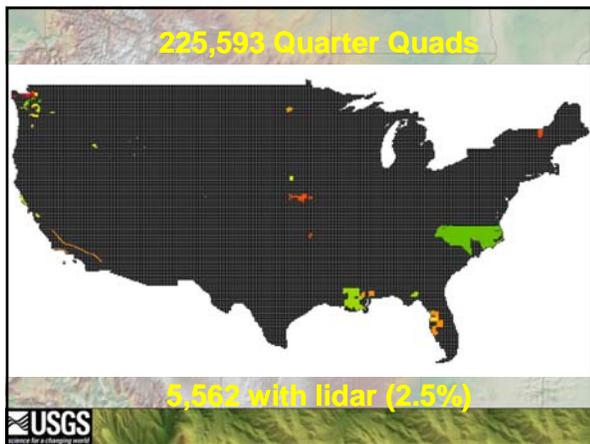
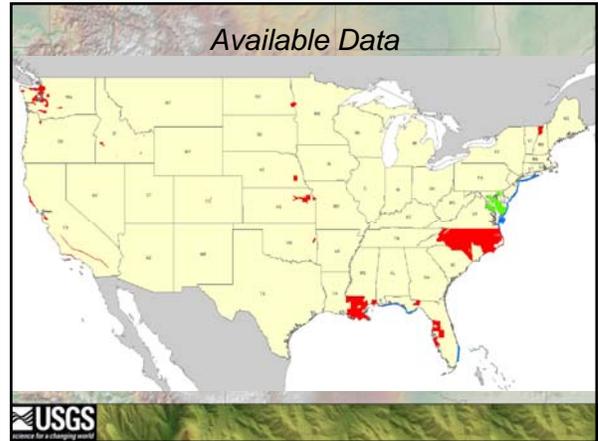
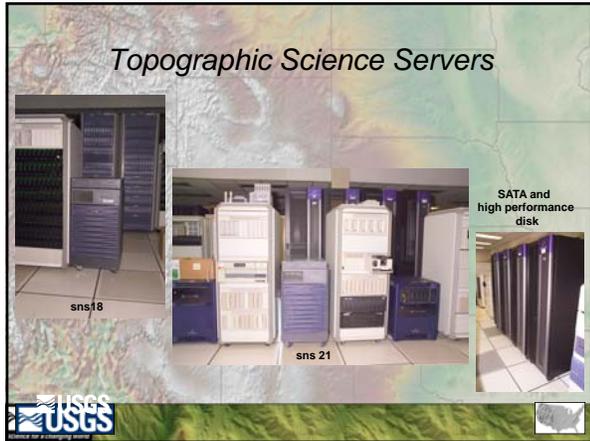
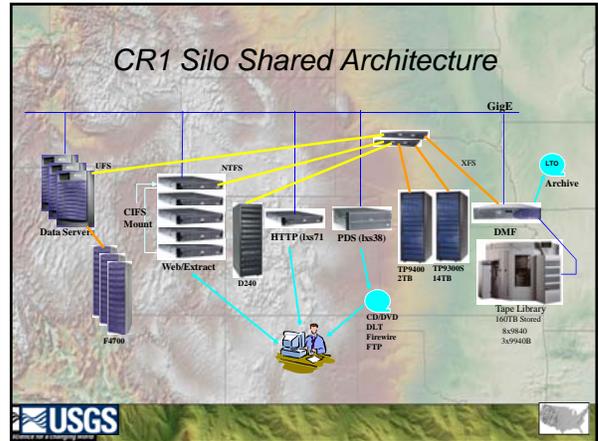


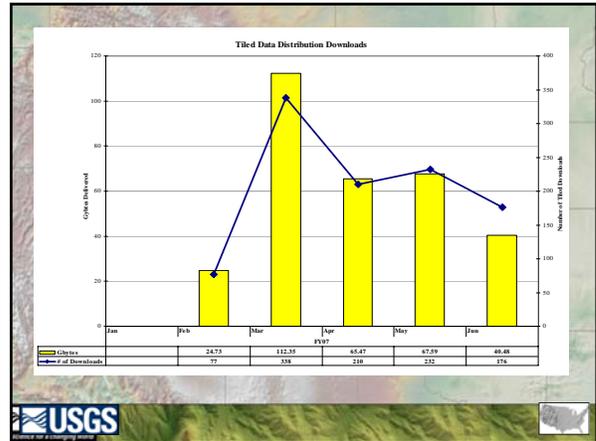
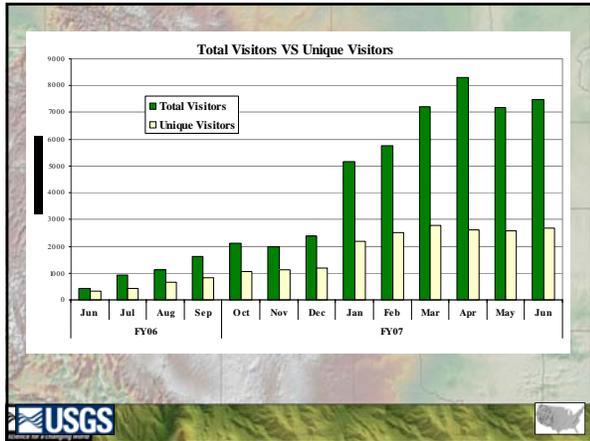
CLICK: Structure

Information – (Data Viewer)

- Provides access to download available raw point cloud data.
- Data currently distributed in ASCII X, Y, Z and LAS file formats.
- Information, such as point classifications, multiple return information, and intensity are included if provided by donor.





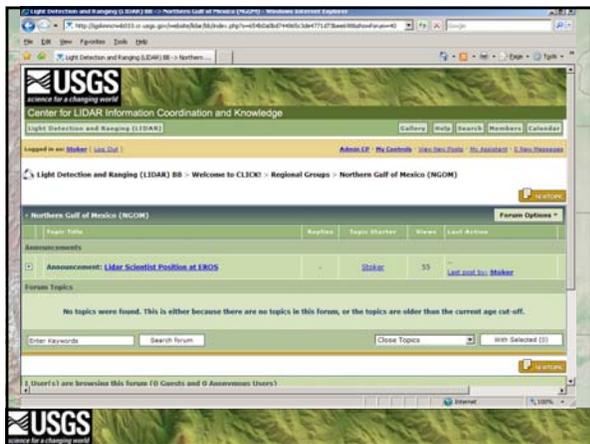
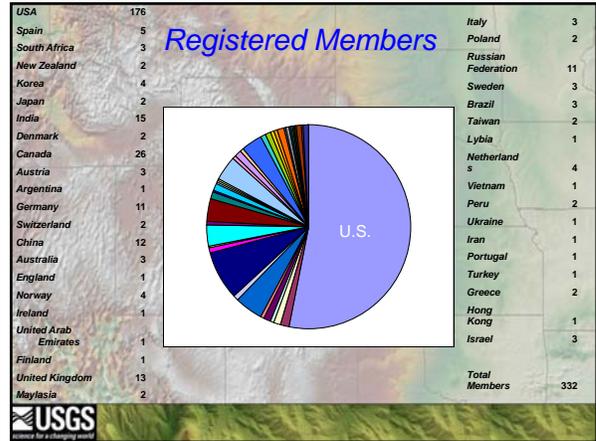
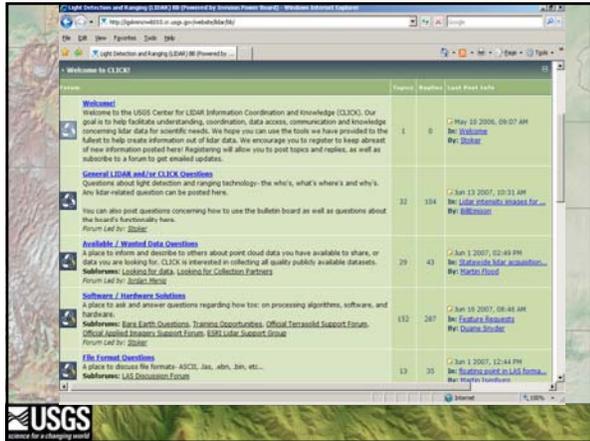




CLICK: Structure

Coordination – (Bulletin Board)

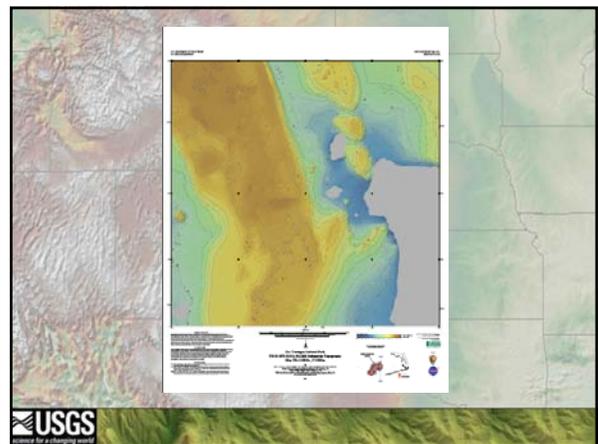
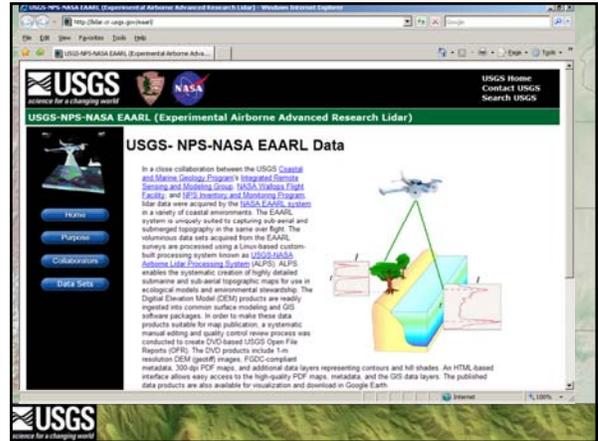
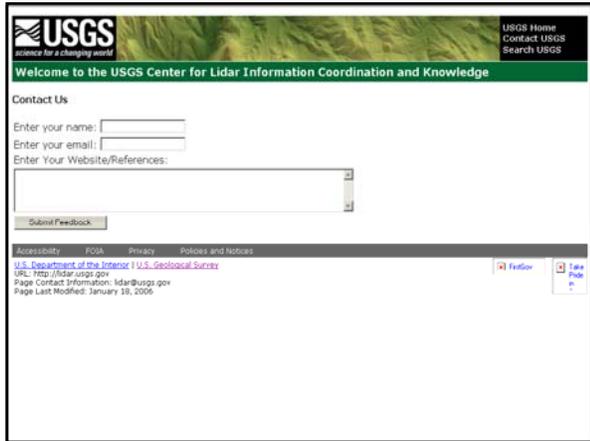
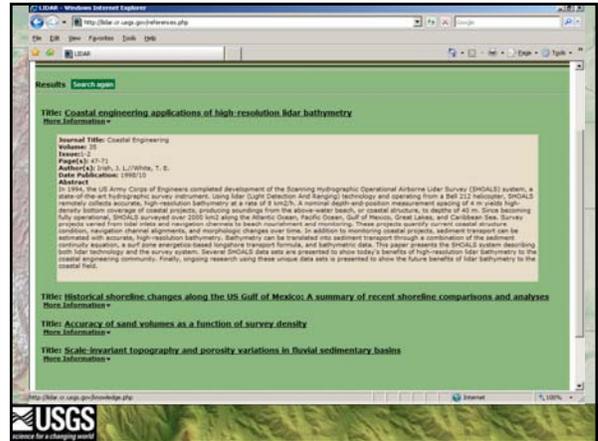
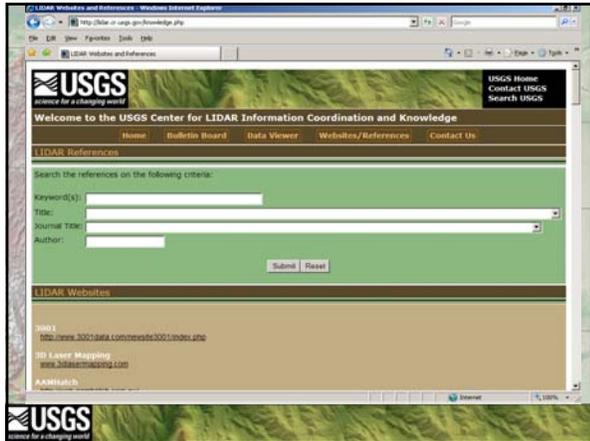
- Heart of the virtual center.
- Place for users from ALL disciplines to ask and answer LIDAR related questions.
- We do request that users register in order to ask and answer questions.



CLICK: Structure

Knowledge – (Websites / References)

- Dynamic list of LIDAR-related web pages, along with a growing list of peer-reviewed articles.
- Users may also submit their own LIDAR-related web pages or peer-reviewed journal articles, if they do not see it on the list.





CLICK together with NDEP

- Active participant in monthly National Digital Elevation Program (NDEP) meetings.
- NDEP has become a major source of LIDAR tracking information nationwide. Either through metadata submissions or leads from NDEP members.

Final Thoughts

- **Working on a National Lidar Initiative to collect lidar for the entire US**
- **Report of the first meeting available on CLICK**
- **Continue to develop better ways to disseminate and visualize lidar point clouds on the web**