



Surveying, Mapping and Geosciences Subcommittee



Richard Snay
NOAA's National Geodetic Survey

The SM&G Subcommittee will host the
CORS Users Forum at the CGSIC Meeting
Savannah, GA
September 16, 2008
1:30 – 5:00 pm

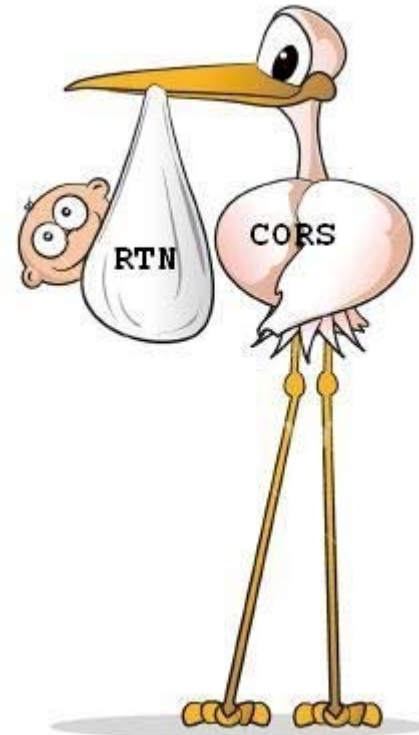


CORS Users Forum



Theme:

Relationship between the CORS system and the rapidly growing number of real-time GNSS networks (RTN).



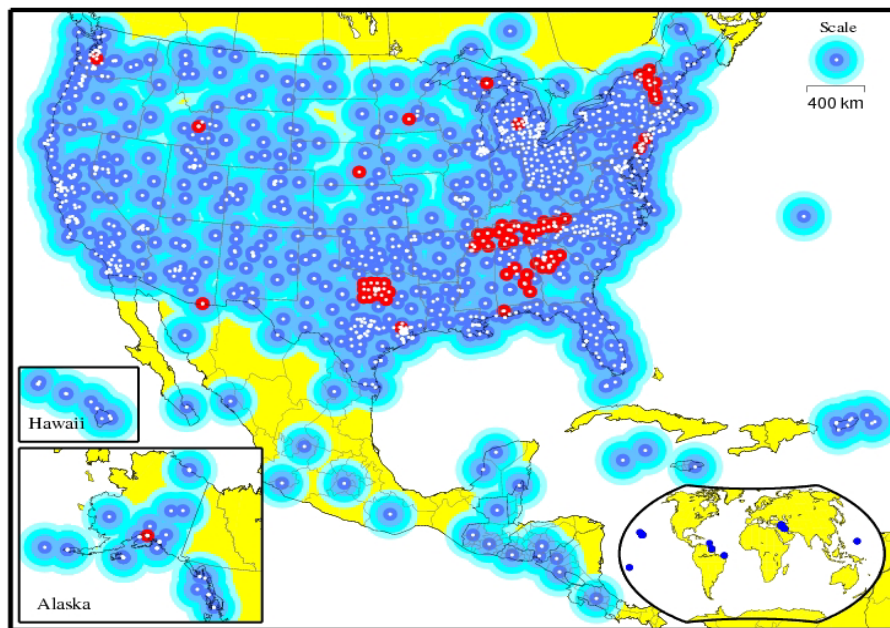


CORS/OPUS: Overview & Status



Presenter: Giovanni Sella, NOAA's National Geodetic Survey

CORS = Continuously Operating Reference Station



**Red dots = GPS + GLONASS sites
whose data will become available in 2009.**

The CORS network contains about 1,250 GPS tracking stations, and it is growing by about 200 stations per year.

OPUS is a Web-based service enabling its users to automatically post-process GPS data.



NGS Support for Real-Time GNSS Positioning



Presenter: Bill Henning, NOAA's National Geodetic Survey

- NGS & friends have developed guidelines for users of “classical” real-time kinematic (RTK) technology.
- Now working on guidelines for administrating a real-time GNSS network (RTN).



NGS began streaming GPS data in RTCM format over the Internet for selected NGS-owned CORS (as an operational prototype).



PANEL SESSION: Real-Time GNSS Networks



Panel:

Gavin Schrock

Washington St. Reference Network

Art Andrew

Orange County, California

Lew Lapine

South Carolina Geodetic Survey

Ken Bays

Oregon Dept. of Transportation

Jim Waters

Tennessee Dept. of Transportation

wsrn.org A Regional Cooperative of Real-Time GPS Networks.
Washington State Reference Network

The Washington State Reference Network is a cooperative of real-time GPS networks offering survey data and real-time GPS correction services for Washington state. GPS data files from a network of continuously operating reference stations (CORS) are available for download to all with real-time services available through partnerships, memberships and subscriptions.
Visit www.wsrn.org for more information...

Technology.
Real-time GPS networks offering survey data and real-time GPS correction services.

Cooperation.
Services available through partnerships, memberships and subscriptions.

Precision.
Users achieve high accuracy location on the order of centimeters in seconds.





Interactive Session within Small Discussion Groups



- From 3:45 – 5:00 pm, Forum attendees will be invited to participate in one of four small discussion groups (6 to 12 people per group).
- Each discussion group will address the relationship between the CORS system and the growing number of real-time GNSS networks.

Vertical standard error achievable when a user submits 15 minutes of GPS data to OPUS-RS

