

GPS.gov Update

Jason Kim and Steve Sidorek

Civil GPS Service Interface Committee
Nashville, Tennessee
September 18, 2012



www.GPS.gov



- Central pillar of U.S. GPS outreach campaign
- Top 5 search hit for "GPS"
- Partnership between NCO and NAVCEN/CGSIC since 2006





Focus Since Last CGSIC



- Website consolidation
 - GPS.gov, PNT.gov, and CGSIC sites merged
 - Migrated >1GB of data
- Server/code changes allowing rapid, frequent, automated updates
 - Daily vs. monthly posting
 - Dynamic content on homepages
 - Moved site to NOAA web cloud
- User interface improvements
 - Type-ahead search box
 - Easy-to-click links
 - Filesize info for PDF's
 - Accessibility and print features











NAVIGATION CENTER

The Navigation Center of Excellence

U.S. Department of Homeland Security UNITED STATES COAST GUARD



DGPS Advisories

GPS Constellation Status

GPS Testing Notices

LNMs

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Nav Rules

AIS

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CGSIC

- CGSIC General Information
- CGSIC Charter
- USSLS Subcommittee Information
- International Information Subcommittee
- Timing Subcommittee Information
- Surveying, Mapping and Geo-Sciences
- Meeting Agendas, Reports, Registration
- Join CGSIC
- CGSIC Frequently Asked Questions
- CGSIC Reference Information
- CGSIC Open Issues

Primary Mission Areas:

- Global Positioning System
- Nationwide DGPS
- Long Range Identification and Tracking
- International Ice Patrol
- Civil GPS Service Interface Committee
- Automatic Identification System
- Nationwide AIS (NAIS)
- Electronic Navigation & Charting
- Maritime Telecommunications
- LORAN C (archive)

Services & Reporting:

Receive Free LNM Updates

CGSIC GENERAL INFORMATION

The Civil Global Positioning System Service Interface Committee (CGSIC) is the recognized worldwide forum for effective interaction between all civil GPS users and the U.S. GPS authorities. It was established and classifier to identify civil GPS user needs (e.g. navigation, timing, and positioning) in support of the Departmen / f Transz program to exchange information concerning GPS with the civil user community as any In fulfilling this responsibility, the CGSIC reports its activities to Office of the Assista

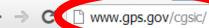
(CGSIC) as part of the Department of Sinto civil sector applications. CGSIC t, an industry user groups. An Executive Panel is comprised of epi sei ative om several different transportation modes. Four ttee, the Timing Subcommittee, and the U.S. States and Local Government apping, an consciences Subcommittee, focus on specific user groups.

and is open to anyone interested in civil GPS issues. Membership in CGSIC is free and there is no fee to meeting. Summary records of CGSIC meetings are available from this website. Information from CGSIC 烯 and meetings is provided to United States GPS authorities for consideration in GPS policy development and GPS service operation.

Committee Officers:

- Chair: Karen Van Dyke, Acting Director, Positioning, Navigation and Timing Program, DOT/RITA
- Deputy Chair: CAPT William Burns, Commanding Officer, NAVCEN
- International Deputy Chair: John Wilde, DW International, United Kingdom
- Executive Secretariat: Rick Hamilton, GPS Information Analysis Team Lead, NAVCEN











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SYSTEMS

APPLICATIONS

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Home » Support » CGSIC

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Meetings

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International Info Subcommittee

Timing Subcommittee

Surveying, Mapping, & Geo-Sciences Subcommittee

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Civil GPS Service Interface Committee



he Civil GPS Service Interface Committee (CGSIC) is the recognized worldwide forum for effective interaction between all civil GPS users and the U.S. GPS authorities.

The U.S. Coast Guard Navigation Center (NAVCEN) coordinates and manages CGSIC in cooperation with the Department of Transportation.

Purpose

The Department of Transportation established CGSIC to exchange information about GPS with the civil user community, respond to the needs

52nd CGSIC Meeting, Nashville

Registration is now open for the 52nd meeting of the Civil GPS Service Interface



Committee to be held September 17-18, 2012, at the Nashville Convention Center in Nashville, Tennessee, in conjunction with the ION GNSS 2012 conference.

View Agenda

Register at ION.org









www.qps.gov/cqsic/







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GOVERNANCE

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U.S. States & Local Govt Subcommittee

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Open Issues

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HOME

WHAT'S NEW

SYSTEMS

APPLICATIONS

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MULTIMEDIA

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Home » Support » CGSIC » Meetings

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Civil GPS Service Interface Committee (CGSIC) NEW

U.S. States & Local Govt Subcommittee

International Info Subcommittee

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Surveying, Mapping, & Geo-Sciences Subcommittee

Open Issues

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Civil GPS Service Interface Committee

Meetings



Meetings of the Civil GPS Service Interface Committee (CGSIC) are free and open to the public. We encourage you to attend the next meeting for information related to the U.S. GPS program.

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U.S. States & Local Government Subcommittee Meeting, Seattle

The Washington State Reference Network hosted a meeting of the CGSIC U.S. States and Local Government Subcommittee (USSLS)



at the Seattle Municipal Tower in Seattle, WA, on the 14th of August. The meeting included a tour of local utilities and systems that use GPS.

View Agenda and More



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The agenda is also published in the Institute of Navigation (ION) brochure announcing the ION GNSS 2012 conference.

Previous Meetings

Use the following links to view proceedings from past meetings of the full CGSIC.

- Sep 2011: Portland, OR
- Sep 2010: Portland, OR
- Sep 2009: Savannah, GA
- Sep 2008: Savannah, GA

International Information Subcommittee Meetings

Use the following links to view proceedings from past meetings of the CGSIC International Information Subcommittee (IISC).

- Nov 2011: London, England
- Mar 2011: Munich, Germany
- Oct 2010: Taipei, Taiwan
- Nov 2009: Jeju, Korea
- Oct 2009: Stockholm, Sweden
- Apr 2008: Toulouse, France

May 2007: Ganava Switterarland

Previous Meetings

Use the following links to view proceedings from past meetings of the USSLS.

- Jun 2012: Austin, TX
- Aug 2011: Sacramento, CA
- Apr 2011: Groton, CT
- Apr 2010: Bozeman, MT
- Apr 2010: Charleston, WV
- Jun 2009: Honolulu, HI
- Aug 2008: San Diego, CA
- Jul 2008: New Orleans, LA
- Jun 2007: Portland, OR
- May 2007: Minnesota
- May 2006: Puerto Rico
- Aug 2003: Montpelier, VT
- Aug 2003: Wyoming

Timing Subcommittee and SM&G Subcommittee Meetings

The CGSIC Subcommittees on Timing and Surveying, Mapping, and Geo-Sciences (SM&G) each meet once a year during the meetings of the full CGSIC.

International Info Subcommittee

Timing Subcommittee

Surveying, Mapping, & Geo-Sciences Subcommittee

Open Issues

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Purpose

- To provide an open forum for civil user information exchange concerning the use of GPS by state and local governments organizations, recommending appropriate action on those issues which concern their user needs.
- To identify the common needs of state and local governments for GPS information, respond to such requests and concerns

meeting of the full CGSIC.

52nd CGSIC Meeting

September 17-18, 2012 Nashville Convention Ctr. Nashville, TN

LEARN MORE & REGISTER ONLINE TODAY...

Recent Meeting

The Washington State

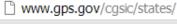


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user needs.

- To identify the common needs of state and local governments for GPS information, respond to such requests and concerns submitted by this user community, and forward issues to the full CGSIC.
- Identify information requirements and methods to distribute this information to state and local government users of GPS.
- To maintain a list of active points of contact in state and local governments which support CGSIC activities.
- To conduct state and local government GPS information studies on civil user needs.
- To effectively support the CGSIC's role under the National Space-Based Positioning, Navigation, and Timing (PNT) Executive Committee.

VIEW CHARTER...

Subcommittee Officials

Chair:

Rudy Persaud Federal Highway Administration

Phone: 202-493-3391 rudy.persaud@dot.gov

Co-Chair and Secretary:

Recent Meeting

The Washington State Reference Network hosted a meeting of the CGSIC U.S. States and Local Government Subcommittee (USSLS)



at the Seattle Municipal Tower in Seattle, WA, on the 14th of August. The meeting included a tour of local utilities and systems that use GPS.

View Agenda and More

Previous Meetings

Select any of the following dates/locations to view proceedings from past USSLS meetings.

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- Jul 2008: New Orleans, LA
- Jun 2007: Portland, OR



www.gps.gov/cgsic/states/2012/seattle/







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SYSTEMS

APPLICATIONS

GOVERNANCE

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Meetings

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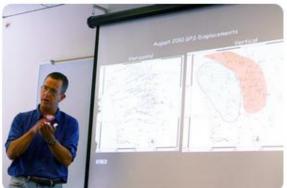


Civil GPS Service Interface Committee U.S. States & Local Government Subcommittee



Regional Meeting Seattle 2012





meeting of the Civil GPS Service Interface Committee (CGSIC) States and Local Government Subcommittee was held at the Seattle Municipal Tower on August 14, 2012.

All thanks go to our hosts, the Washington State Reference Network for their kind support. Welcome was provided by Gary Gervelis, Executive Director of the Washington Geodetic Survey.

Meeting Info

- Agenda & Presentations
- Cover Letter/Invitation (29 KB PDF)
- Meeting Location & Directions (317 KB PDF)





www.gps.gov/cgsic/states/2012/seattle/







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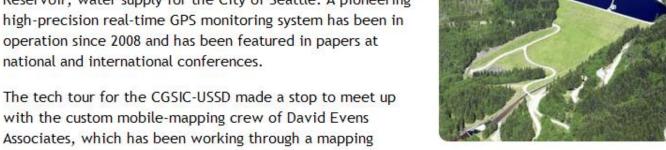
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Tour and Technology Demonstrations

Gavin Schrock kindly devoted a day to a tour of the Tock Reservoir, water supply for the City of Seattle. A pioneering high-precision real-time GPS monitoring system has been in operation since 2008 and has been featured in papers at national and international conferences.



with the custom mobile-mapping crew of David Evens Associates, which has been working through a mapping

project that will include thousands of miles of roads for Snohomish County Public Works.

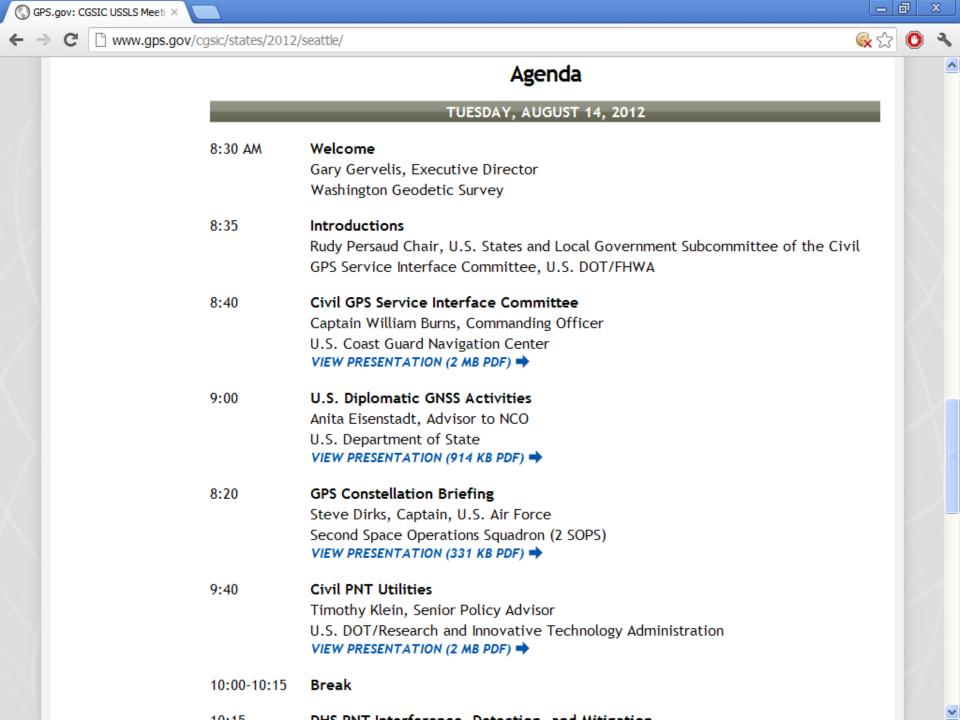


A custom enclosure was built tall on a large pickup truck to afford the 14 synchronized cameras a clear view of the roads and road rights of way. The truck uses GNSS receivers as well as ground targets to georegister the millions of images it collects and stores in on-board solid-state-drive servers. From the collected and registered images, high precision photo-interp positions can be extracted for all visible roadside features.

Next stop was Tolt Dam, an earthen water supply dam built and operated by Seattle Public Utilities. Tolt Dam has had GNSS monitoring running for more than four years. It is one of the first dams to be monitored with this particular style of dual-frequency GNSS monitoring system, which employs suites of "motion engines" to provide hierarchical monitoring referenced to local, regional, and statewide continuously operating reference stations (CORS). The project has been



internationally recognized by the dam safety and structural integrity monitoring industries and associations.





CGSIC, NAVCEN, and GPS.gov



- NAVCEN continues to administer CGSIC and provide contents for the CGSIC site
- NCO & NOAA simply host the site on GPS.gov for improved access and broader visibility
- GPS.gov is a basic information resource
 - Points civil users to NAVCEN for GPS user support

NAVCEN remains the primary public interface for operational GPS information



PNT.gov Merger







www.gps.gov/governance



Materials Migrated from PNT.gov



- 15 years of GPS-related presentations, news items, international cooperation documents
- EXCOM, NCO, Advisory Board info and meeting materials
- GPS policy documents
- Congressional funding and legislation trackers
- LightSquared studies
- Selective Availability information
- External reference links









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SYSTEMS

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GOVERNANCE

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Home » Governance » Organization » National Executive Committee

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Advisory Board

Civil GPS Service Interface Committee

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Congress

International Cooperation

Spectrum & Interference

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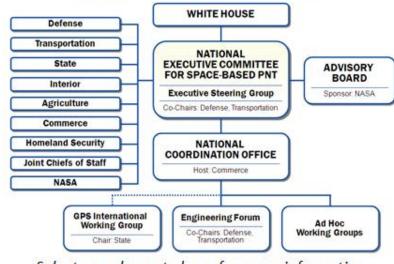
SPACE-BASED POSITIONING NAVIGATION & TIMING

NATIONAL EXECUTIVE COMMITTEE

he GPS program receives national-level attention and guidance from a joint civil/military body called the National Executive Committee for Space-Based Positioning, Navigation, and Timing (PNT).

The term "space-based PNT" refers to GPS, GPS augmentations, and other global navigation satellite systems.

Organizational Structure



Select any element above for more information. VIEW FULL SIZE (200K PDF)... >

2010: LightCausered ATC suthopigations prior to ECC waites













Spectrum & Interference

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Defense Appropriations

The Department of Defense Appropriations Act, 2013, provides funds to the Air Force for GPS program procurement and development.

Bill Status

HOUSE SUBCOMMITTEE	HOUSE COMMITTEE	HOUSE FLOOR	HOUSE-SENATE	HOUSE FLOOR	PRECIDENT
5/8/2012 H.R. 5856	5/17/2012 H.R. 5856	7/19/2012 H.R. 5856	CONFERENCE COMMITTEE		PRESIDENT
SENATE SUBCOMMITTEE	SENATE COMMITTEE	SENATE FLOOR		SENATE FLOOR	
7/31/2012 H.R. 5856	8/2/2012 H.R. 5856	TBD			

Funding Marks

PROGRAM LINE ITEM	PRESIDENT'S BUDGET REQUEST	HOUSE MARK	SENATE COMMITTEE MARK	FINAL
Procurement: GPS IIF Satellites Appropriation 3020F (Missile Procurement, Air Force), Line Item 22, "Global Positioning System (Space)"	\$58.147M VIEW SOURCE	\$48.147M -\$10M vs request VIEW SOURCE	\$58.147M VIEW SOURCE	
Procurement: GPS III Satellites Appropriation 3020F (Missile Procurement, Air Force), Line Item 19, "GPS III Space Segment" + Line Item 20, "GPS III Space Segment Advance Procurement"	\$492.910M (\$410.294M + \$82.616M) VIEW SOURCE 1	\$492.910M (\$410.294M + \$82.616M) VIEW SOURCE	\$492.910M (\$410.294M + \$82.616M) VIEW SOURCE	



Other New Content



- Feature stories on solar storms, LightSquared, Supreme Court, IAC award
- GPS news items with RSS feed
- Legislative blog with RSS feed
- Congressional hearings and testimony
- Recent presentations
- Updated ICD's and ICWG meeting materials
- Satellite Simulator Working Group
- GPS control segment page
- Updated page on GPS surveying (with translations)



Future Content



- How GPS Works
- Constellation status graphic
- Information on other GNSS
- Applications database/ wiki/contest?
- Media contacts
- History of GPS/GPS policy

Top Inquiries/Queries:

- Help me correct my address in GPS
- Help me find my lost mobile phone
- Indonesia/Jakarta (??)

How can we make GPS.gov more useful to you?



Please Send Comments & Suggestions



