



# Civil GPS Service Interface Committee (CGSIC)

## UN International Committee on GNSS

Captain Russell Holmes  
CGSIC Deputy Chair  
Boulder, Colorado  
November 2, 2015

# GPS Civil Users Need A Means For:

- System status, health and modernization plans - provider officials to disseminate system information
- Worldwide user input, feedback on adequacy of signals for user needs, new applications
- Interference/outage reporting mechanism - process for interference detection and mitigation
- User advocacy - a means by which system users can be represented in all parts of the system planning and operation
- Global industry participation



## CGSIC in Tampa at ION

Interesting information on the agenda:

- PNT updates from all across the U.S. government
- First presentation from the 19<sup>th</sup> Satellite Operations Squadron: Launch, Anomaly and Disposal Operations
- NASA presentation on the status of Navigation in Space missions
- Airservices Australia briefing on the Use of GPS for International Civil Aviation Organization (ICAO) Global Tracking Initiative
- Call for input regarding CNAV message types on new civil signals L2C and L5

Home » Support » CGSIC » Meetings » Tampa 2015

SUPPORT:

Frequently Asked Questions

Address, Route, & Map Problems

Service Outages & Status Reports

Civil GPS Service Interface Committee (CGSIC)

Meetings

U.S. State & Local Govt Subcomm

International Info Subcomm

Timing Subcomm

Surveying, Mapping, & Geo-Sciences Subcomm


Technical Documentation

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# 55th Meeting of the Civil GPS Service Interface Committee



## At the Institute of Navigation GNSS+ 2015 Conference Tampa Convention Center 14-15 September 2015



### Agenda

Jump to session:  
Timing | USSLS | IISC | SM&G | Plenary

#### MONDAY, 14 SEPTEMBER 2015

8:15 a.m. **Registration**

#### Morning Concurrent Sessions:

· **TIMING SUBCOMMITTEE** ·  
Chair: Dr. Włodzimierz Lewandowski, European Space Agency (ESA) Navigation Program Board (PB-Nav)  
Co-Chair: Dr. Victor Zhang, National Institute of Standards and Technology (NIST)

CGSIC International Information  
Subcommittee meeting

16 November, 2015

**International Symposium on GNSS**  
Miyakomesse, Kyoto, Japan



CGSIC States and Local Government  
Subcommittee meeting

19 November

**5th Field Technology for Data  
Collection in Forestry, Fisheries, and  
Natural Resources**

Holiday Inn Airport, Portland,  
Oregon

# International Collaboration

Forums like ICG foster cooperation between country GNSS service centers

- Not only providers
- Need day-to-day working relationships
- Share information and cooperate to resolve interference

U.S. Coast Guard Navigation Center visitors:

- China Satellite Navigation Office (CSNO)
- China National Time Service Center (NTSC)
- China National Administration of GNSS and Applications (CNAGA)
- European GNSS Agency (GSA)
- European Space Agency (ESA)
- European GNSS Service Center (GSC)
- Institute of Navigation (ION) Washington, D.C. Section

# www.navcen.uscg.gov

The primary means of information dissemination used by the NIS is the NAVCEN Website. It is the focal point of all NAVCEN data regarding GPS, DGPS, NAV Rules, NAIS, LRIT and much more.



## NAVIGATION CENTER

The Navigation Center of Excellence

U.S. Department of Homeland Security

UNITED STATES COAST GUARD



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### Mission Areas

- Global Positioning System
- Nationwide DGPS
- Nationwide AIS (NAIS)
- AIS (Overview, Messages, etc.)
- Long Range Identification and Tracking
- Local Notice to Mariners
- Light Lists
- Civil GPS Service Interface Committee
- LORAN C (archive)

### Subscribe / Report (free)

- Local Notice to Mariners (Weekly)
- GPS Operational Summary (Daily)
- NANUs (upon occurrence)
- Join CGSIC
- Report an ATON Discrepancy or Outage
- Report a GPS Problem
- Report an NDGPS Problem
- Report an LRIT Problem
- Report an NAIS Problem
- Contact Us

### Maritime Information

- Maritime Safety Information Downloads
- Maritime Telecommunications
- CG Nat'l Distress System
- Global Maritime Distress and Safety System
- Marine Safety Information Broadcasts

### U.S. COAST GUARD NAVIGATION CENTER

September 21, 2015

#### NAVIGATION CENTER POINTS OF INTEREST



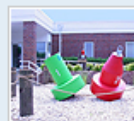
#### Current Operational / Safety Information

- |                              |                              |
|------------------------------|------------------------------|
| ▪ Consolidated Nav Info      | ▪ Current Ice Chart          |
| ▪ DGPS Site Status           | ▪ Public Notices for Bridges |
| ▪ GPS Ops Advisories & NANUs | ▪ Local Notice to Mariners   |
| ▪ GPS Almanacs               | ▪ Light List and Corrections |
| ▪ GPS CNAV Testing           | ▪ Navigation Rules           |
| ▪ FCC GPS Jammer Enforcement | ▪ Navigation Regulations     |



#### Maritime Information

- |  |   |
|--|---|
| ▪ Automatic ID System (AIS)                          | ▪ Maritime Telecommunications           |
| ▪ Global Maritime Distress and Safety System (GMDSS) | ▪ Radionavigation Pubs                  |
| ▪ CG Nat'l Distress System                           | ▪ Radio Watch Requirements              |
| ▪ Digital Selective Calling                          | ▪ Marine Safety Information Broadcasts  |
| ▪ Vessel Traffic Services                            | ▪ Ports and Waterways Safety Assessment |
| ▪ USCG "Homeport" Website                            |   |



#### About NAVCEN

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### News and Notices:

- RSS Feeds (LNMs, LL Corrections)
- The GPS Directorate has released a paper informing the public about the recent anomalous behavior of the 'Issue of Data, Clock' (IODC) and the 'Issue of Data, Ephemeris' (IODE) parameters in the GPS broadcast Legacy Navigation (LNAV) messages. You may read the [document here...](#)
- The U.S. Coast Guard, the Department of Transportation, and the U.S. Army Corps of Engineers have released a [Federal Register Notice](#) seeking comment on a proposed plan to reduce the number of Differential GPS sites around the United States, while maintaining coverage in major maritime ports and waterways. The comment period ends on November 16, 2015.
- The DHS National Coordinating Center for Communications has issued a paper titled "Best Practices for Leap Second Event Occurring on 30 June 2015." You may [view it as a PDF document](#).
- The DOT Office of the Assistant Secretary for Research and Technology at the U.S. Department of Transportation has released the 2014 Federal Radionavigation Plan signed by the Secretaries of Defense, Transportation, and Homeland Security. You may [view it as a PDF document](#).

# NAVCEN Contact Information

<http://www.navcen.uscg.gov>

E-mail: [nisws@navcen.uscg.mil](mailto:nisws@navcen.uscg.mil)

Phone: +1 703 313 5900

Fax: +1 703 313 5920

Civil GPS Service Interface Committee Secretariat

E-mail: [rick.hamilton@uscg.mil](mailto:rick.hamilton@uscg.mil)