



# ***U.S. GPS/GNSS International Activities Update***

## **Civil GPS Service Interface Committee International Meeting**

*Office of Space Affairs  
U.S. Department of State*

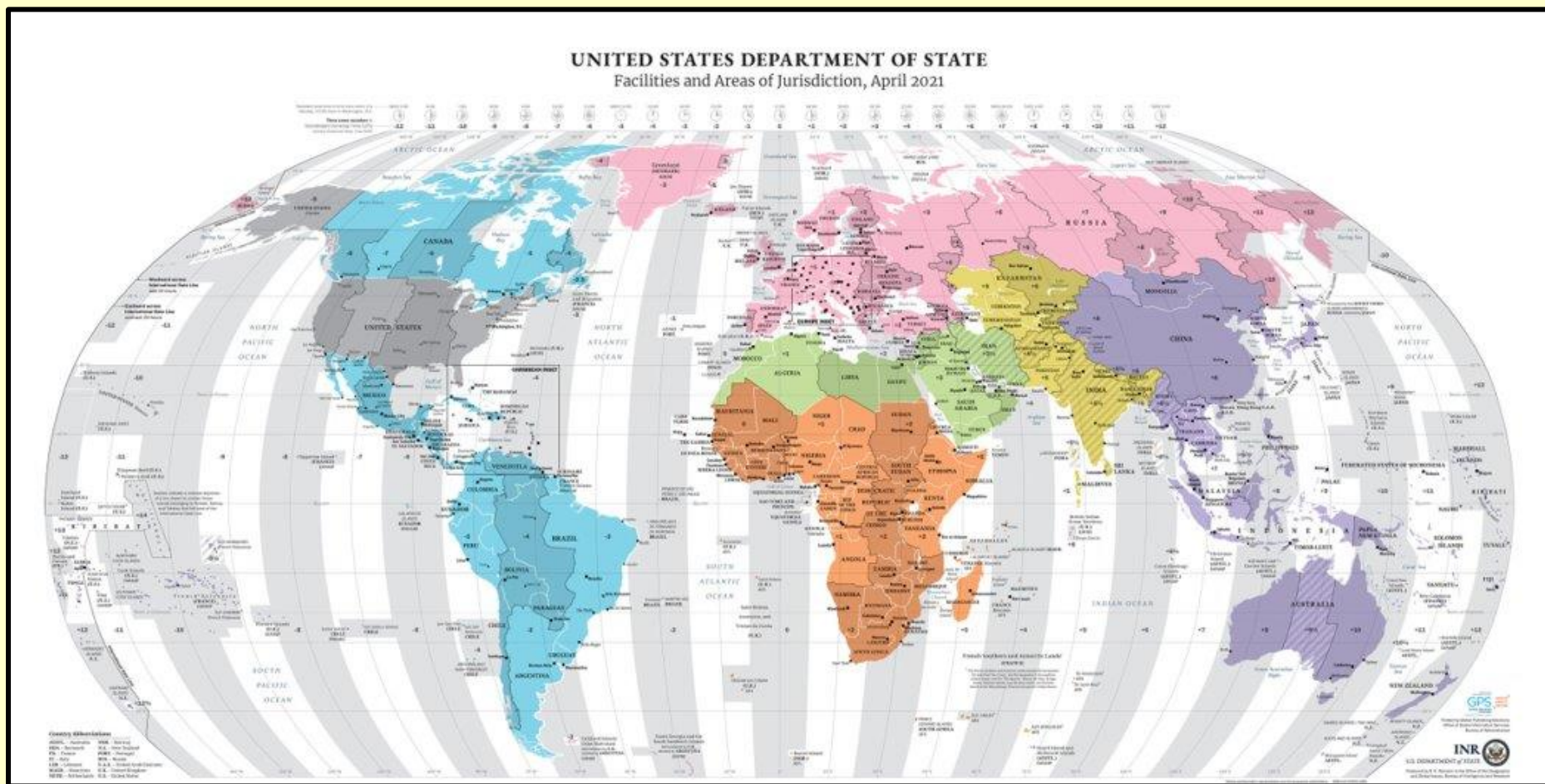
**21 April 2026**

**Washington, DC** (38.87595621072059, -77.00313579196899)



# Diplomatic Infrastructure

*Maintain U.S. leadership in the service provision, and responsible use of GNSS, including GPS and foreign systems*





# *U.S. PNT Policy*

*Maintain U.S. leadership in the service provision, and responsible use of GNSS, including GPS and foreign systems*

- Ensure **compatibility** — ability of U.S. and non-U.S. space-based PNT services to be used separately or together without interfering with each individual service or signal
- Encourage **interoperability** – ability of civil U.S. and non-U.S. space-based PNT services to be used together to provide the user better capabilities than would be achieved by relying solely on one service
- Promote **transparency** in civil service provision and enable **market access** for U.S. industry
- Promote and support the **responsible use of GPS** as the pre-eminent space-based PNT service
- Foreign space-based PNT services may be used to complement civil GPS service
  - Receiver manufacturers should continue to improve security, integrity, and resilience in the face of growing cyber threats
- Encourage foreign development of PNT services and systems based on GPS
- Support international activities to **detect, mitigate, and increase resilience** to harmful disruption or manipulation of GPS



# *U.S. PNT Policy Cont.*

*Maintain U.S. leadership in the service provision, and responsible use of GNSS, including GPS and foreign systems*

**E.O. 14369**

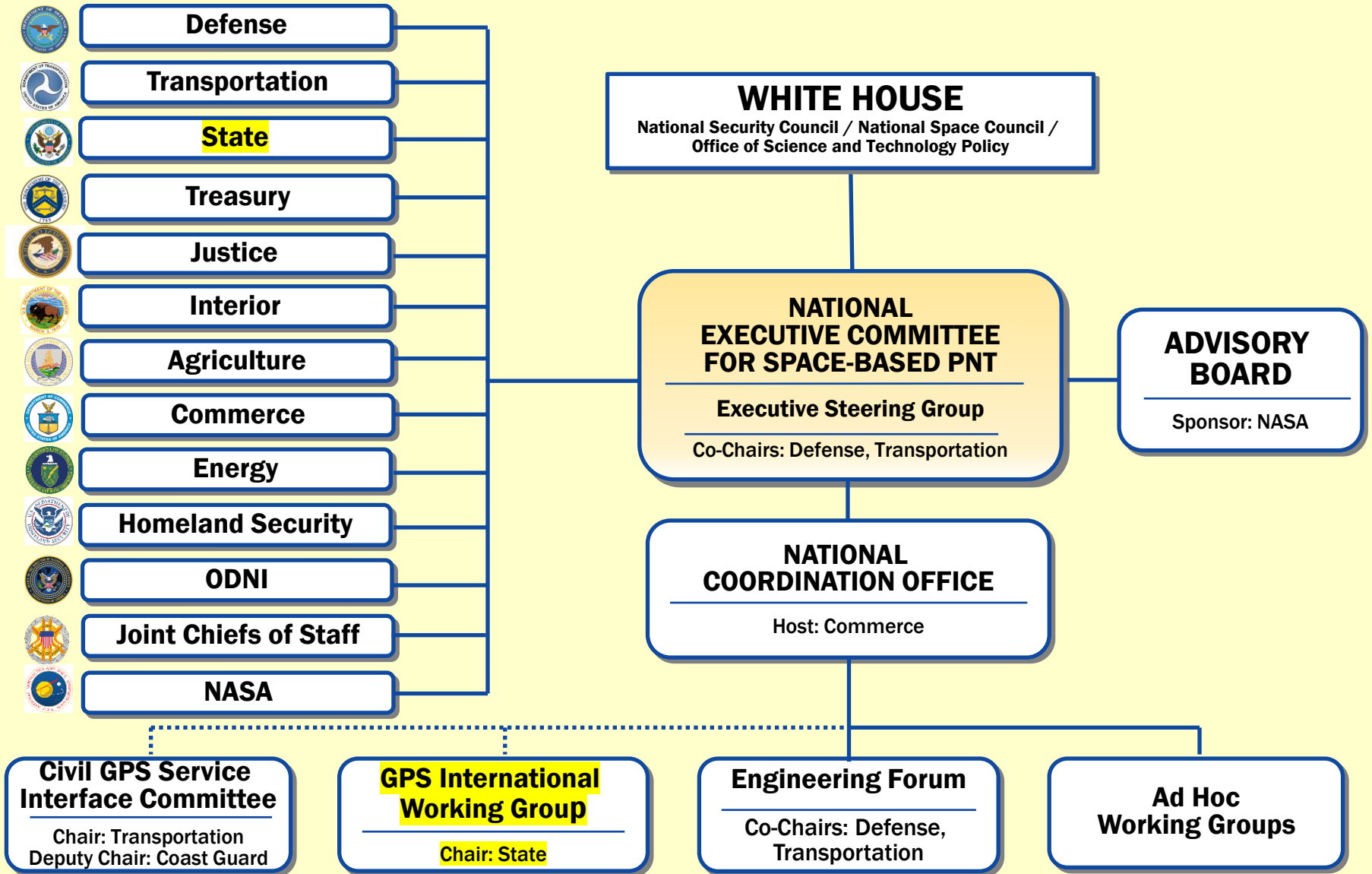
**December  
2025**



- (iv) enabling the sustainability of space operations through effective and responsible approaches to space traffic management; orbital debris mitigation and remediation; and **terrestrial and cislunar positioning, navigation, and timing**, including by establishing the United States as the standards and services leader in these areas; and
- (v) establishing **ground, space, and lunar infrastructure and standards** that enable implementation of space priorities and a robust space industrial base.



# National Space-Based PNT Organizations





# Global Perspective

- Global Constellations

- **GPS (24+3)**
- GLONASS (24+)
- GALILEO (24+3)
- BDS/BEIDOU (27+3 IGSO + 5 GEO)

- Regional Constellations

- QZSS (4+3)
- IRNSS/NAVIC (7)
- KPS (7)

- Satellite-Based Augmentations

- **WAAS (3)**
- MSAS (2)
- EGNOS (3)
- GAGAN (3)
- SDCM (3)
- BDSBAS (3)
- KASS - Korea (2)
- SPAN - Australia/NZ (2)





# *Bilateral Cooperation*

## **Europe**

- GPS-Galileo Agreement (2004) guides cooperation
- U.S.-EU Space Dialogue
  - PNT a core element
  - Last meeting Sep 2025 in WDC
- Working Group on Next Generation GPS/Galileo Civil Services
  - Will meet in Jun 2026 hosted by EU in Italy
- Working Group on Compatibility and Interoperability
  - Met in Feb 2026 - focus on spectrum coordination issues

## **India**

- U.S.-India Civil Space Joint Working Group (CSJWG)
  - India to host next meeting later in 2026
- Technical Working Group established for working level collaboration/coordination – last met in 2025



# *Bilateral Cooperation Cont.*

## **Japan**

- Comprehensive Space Dialogue – Co-chaired by NSpC/NSC
  - Includes GNSS coordination
  - Next meeting is TBD
- Technical Working Group (TWG) established for working level collaboration/coordination
  - Met in March 2026
- QZSS monitor stations hosted by U.S.

## **China**

- Joint Statement on GPS/Beidou Compatibility and Interoperability - 2017
- Compatibility discussions through ITU process, as needed



# *Bilateral Cooperation Cont.*

## **Korea**

- Civil Space Dialogue in 2025
- Joint Statement of Cooperation on KPS signed May 2021
- Technical Working Group (TWG) established for working level collaboration/coordination
  - Next meeting Sep 2026

## **Other Bilateral PNT Engagements**

- Australia – Bilateral discussions on PNT, as needed – last formal meeting in 2024
- Canada – Bilateral PNT meeting in Jan 2025
- UK – Bilateral discussions on PNT, including resilience, as needed



# *Multilateral Cooperation*

## **International Committee on GNSS (ICG)**

- Pursuing a Global Navigation Satellite System-of-Systems to provide civil GNSS services that benefit users worldwide
  - Promote the use of GPS/GNSS and its integration into infrastructures
  - Encourage compatibility and interoperability among global and regional systems
- U.S. co-chairs Working Group on Systems, Signals and Services (WG-S) and Lunar PNT (WG-L)
- 19th Meeting held in Busan, Republic of Korea in October 2025
- India will host the 20th Meeting in October 2026 in Goa



# *Addressing Spectrum Protection and IDM within ICG*

- Establishment of Compatibility Subgroup in 2011
  - Focused on compatibility issues to include spectrum protection and IDM
- Establishment of **Interference Detection and Mitigation** Task Force in 2013
  - Objectives include:
    - 1) Develop a common set of information to be reported to GNSS civil service centers
    - 2) Establish routine communications among the (provider service) centers
    - 3) Develop guidelines for common capabilities to be considered in the development of future national IDM networks
  - Twelve IDM Workshops held since 2012



# *ICG Recommendation on GNSS Interference*

ICG IDM Workshop held in August 2025

- Industry perspective on GNSS interference and monitoring
- Discussion about what ICG can do

ICG Recommendation adopted in October 2025:

## **IDM Monitoring**

*ICG encourages member states to consider use of national and/or global interference monitoring to timely inform users where interference may cause GNSS/RNSS to be unavailable (jammed) or errant (spoofed)*



# *ICG and LEO PNT*

- Discussion focused on compatibility and interoperability with GNSS and among LEO-PNT providers
  - How to apply compatibility and interoperability between LEO systems and GNSS
  - ITU coordination mechanisms to ensure compatibility
- Establishment of a Task Force in 2025 focused on LEO PNT under WG-S
- LEO-PNT Systems Compatibility and Interoperability Document being developed
- ICG Workshop with LEO PNT Providers scheduled for June 2026 at the UN Vienna International Centre



# *Lunar PNT*

- New ICG Working Group on Lunar PNT established in October 2024
  - NASA led effort/co-chair
  - Focus on compatibility and interoperability for lunar PNT
- 2<sup>nd</sup> Lunar PNT Workshop held in February 2026
  - Hosted by ICG and IOAG
  - Technical discussions on: spectrum compatibility, timing interoperability, reference frameworks and governance



# *Geodetic Reference Frame Supply Chain*

- **ICG recommendation** adopted in 2025 to publish a statement on The Critical Role of the Global Geodesy Supply Chain for GNSS
- Ongoing **bilateral engagements** to encourage infrastructure buildout at the gov-to-gov level
- Ongoing **multilateral engagement** with the UN Global Geodetic Centre of Excellence and their international governance recommendations



# *Summary*

- U.S. Policy continues to focus on maintaining **leadership in the service provision**
  - **Compatibility, interoperability, and transparency** remain priorities
  - Pursued through bilateral and multilateral dialogues
- Bilateral cooperation forms the basis for carrying out U.S. policy
- U.S. support for the ICG continues with a focus on civil GNSS services that benefit users worldwide
  - U.S. priorities include **spectrum protection, system interoperability and information dissemination**



***THANK YOU!***

*Office of Space Affairs  
U.S. Department of State*

