

Communications and External Relations 4 Dec 2024

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Primary Audience

DOD Dep Sec Hicks

DOT Dep Sec Trottenberg

NSC Director Durkovich

Influencer Audience

Congress

Public



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Internal Recommendations

- PNT Advisory Board website separate from GPS.gov PENDING
 - Pends NASA coord and action w/ NCO funding?
- PNT Advisory Board LinkedIn Account PENDING
 - NASA General Council opinion?
- 75% of PNT Advisory Board meetings in DC area, close to city to enable officials to attend
 - NASA analysis and response PENDING
- Meet with SPG & Space Council's Users' Advisory Group's National Security Subcommittee
 - National security PNT concerns COMPLETE



19 July 2024

MEMORANDUM

FROM: Thad Allen, Admiral (USCG, Ret), Chair, National Space-based Positioning, Navigation, and Timing

(PNT) Advisory Board

TO: Honorable Kathleen H. Hicks

Deputy Secretary, Department of Defense

Co-Chair, National Space-based PNT Executive Committee

Honorable Polly E. Trottenberg

Deputy Secretary, Department of Transportation

Co-Chair, National Space-based PNT Executive Committee

SUBJECT: Report of the 30th National Space-based PNT Advisory Board Meeting and Associated Activit

Madam Co-Chairs,

The National Space-based PNT Advisory Board (PNTAB) held its 30th session on April 24-25, 2024, in Colorado meeting was held under the provisions of the Federal Advisory Committee Act, with appropriate public no documentation for the public record. At this meeting, the Board reaffirmed the recommendations in my Janu report and approved three additional recommendations (see Enclosure). The Colorado Springs session was a Board's Protect, Toughen, and Augment (PTA) of the Global Positioning System (GPS) for all users, our framework to organize our advice. The scope of our work continues to broaden to consider the evolving capabilic Global Navigation Satellite Systems (GNSS), (2) complementary PNT technologies (terrestrial and space-based ongoing policy, strategy, and governance challenges presented by global GNSS competition and execution of the I delayed this report as further context was provided at the EXCOM's Executive Steering Group (ESG) me May 29, 2024, and in subsequent classified briefings by the 2nd Space Operations Squadron (2SOPS).



America's Asymmetric Vulnerability to Navigation Warfare: Leadership and Strategic Direction Needed to Mitigate Significant Threats

PNTAB Chair's Bottom Line Up Front (BLUF)

• Reliable and resilient PNT (space-based and terrestrial) faces a broad spectrum of risks and challenges. Regarding GPS



White House advisory group blasts US government, DoD inattention to GPS woes

The President's National Space-based Positioning, Navigation, and Timing Advisory Board recommends that the Biden administration create a new "locus of authority and accountability for PNT decision-making beyond DoD GPS program management."

US leaders have been warned to focus on GPS and PNT to protect the nation

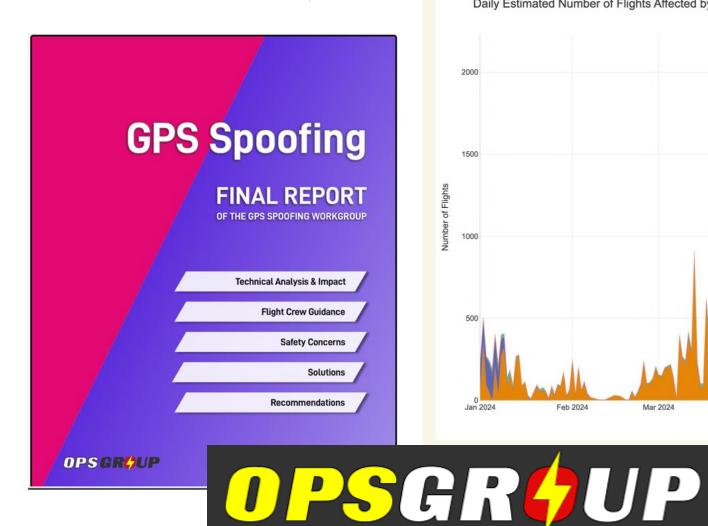


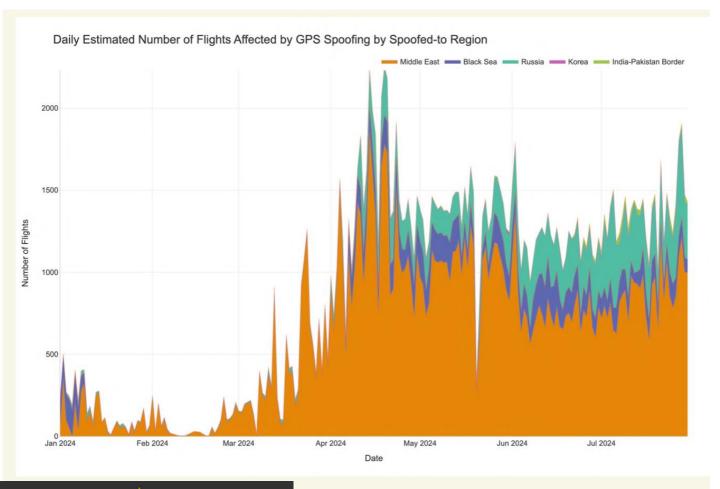


Experts to PNT leaders: "It's not working!"



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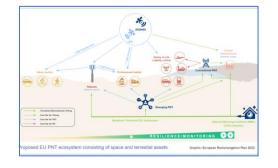




China completes national eLoran network

October 7, 2024 - By Jesse Khalil





Europe moving toward a "timing backbone" and looking for input

<u>Clock, eLoran, quantum and best practices – UK</u> <u>PNT forging ahead</u>

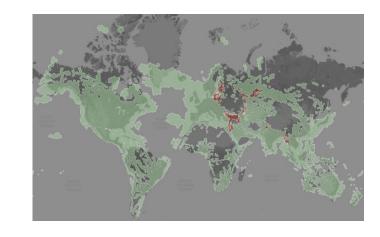


SPACENEWS.

Opinion

The urgent need for a national GPS jamming detection system

Sean Gorman November 27, 2024





Opinion

America is at risk of high impact GPS jamming and spoofing from space



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Raising Awareness



Navigating GPS
Vulnerabilities: Implications
for US Economic and
National Security



GPS? It's OK, the economy can't, either.



A Call to Acknowledge and Step-Up:
PNT Governance for a Changed World



Assured PNT Summit



Presidential Transition Issue Paper

Lack of PNT Leadership Endangers US

Cause for Action: Positioning, navigation, and timing (PNT) services underpin all the systems and technologies that enable modern life. GPS has become the primary source of PNT and has enabled unprecedented benefits for the U.S. and the world.

The last four years have seen massive increases in threats and disruption of GPS signals around the globe, especially impacting aviation. Additionally, GPS's capabilities are being surpassed by other national satnav systems.

Threats to GPS impact America's national defense, public safety, economic security, and global standing.

The first Trump administration's SPD-7 and EO 13905 sought to address these issues. Yet, there has been little progress fielding improved PNT capabilities.

Ensuring PNT for domestic critical infrastructure, economic competitiveness, and military superiority is a vital national interest. It requires urgent and high-level leadership attention.



Presidential Transition Issue Paper

Lack of PNT Leadership Endangers US

Threats include:

- National Defense degraded combats systems, in homeland degraded outload, logistics, defense industrial based
- Public Safety domestic terrorists disrupt first response to contingencies, civil unrest...
- Economic Security Economy restructured around PNT from GPS over last 40 years. Significant disruption could be devastating
- Global Standing/ Great Power Competition China much more resilient, possible "GPS blackmail," loss of GPS as "first and preferred" global choice for satnav, impact to nation and global standing of significant disruption.



Presidential Transition Issue Paper

Lack of PNT Leadership Endangers US

Recommendation: The new administration must ensure resilient national PNT capabilities. This will require evaluating the leadership structure and decision-making process including funding for military and civil capabilities.

Public and Private Roles - The U.S. government has been the authoritative source for time and navigation utilities for over 150 years. As technology has evolved, commercial and private entities have become able to establish their own references, add value and help in distribution of authoritative time and location. Government and private sector roles and responsibilities must be carefully considered in light of national and economic security needs.

Other Advice & Recommendations: The Advisory Board has made series of recommendations to the government over the last two years that are still pending action. These are summarized in the attachment.