GPS.gov

- Central pillar of U.S. GPS outreach campaign
- Partnership between NCO and NAVCEN/CGSIC since 2006
- Website re-launched in March 2011
  - Enhanced user interface
  - New content
  - Monthly updates
Chinese Homepage
🌐 Arabic Homepage

🌐 نظام التموضع العالمي
🌐 GPS.gov

🌐 For General Public
🌐 For News Media
🌐 For Congress
🌐 For Internationals
🌐 For Professionals

🌐 نظام التموضع العالمي هو نظام أمريكي للساحة الاستكشافية يخذ من
🌐 الطلب اليد المعلمة، وهو نظام يوفر لجميع المستخدمين المعنيين في جميع
🌐 أنحاء العالم على نحو مستمر، ويدعم خدمات متنوعة لتحديد
🌐 الموقع والتحديث الوقت والساحة، إذ يشترط أن يهمح لدى جمهور
🌐 لتنظيم التموضع العالمي أن يحصل على معلومات جيدة حول الموقع والوقت،
🌐 حيث يوفر هذا النظام لعدد غير محدود من الأشخاص معلومات قوية عن
🌐 الموقع والوقت، ويومر ذلك المعلومات إلى الأعداء في أي مكان من
🌐 العالم ويعضو الدور في الظروف الجوية.

🌐 يمكن أن يقبل التموضع العالمي من ثلاثة أجزاء: الأجزاء الأمامية التي تقع حول الأرض،
🌐 ومثل الأجزاء الأمامية الرئيسية للهيئة، وتقسم لدائمًا أن نتقاسم نظام التموضع
🌐 العالمي، وهي الأجزاء التي تقلد مشاريع الأغراض الناعمة للساحة
🌐 للتحديث، ومن ثم تضمنها لمن يستخدمها في مروحة مجمعة للمصطلحات في حالة الأداء
🌐 (المساحة الأرضية والضغط) في الوقت والوقت.

🌐 بالنسبة للأوامر، فإنها دورية بسيرة لاستكشاف المعلومات من نظام التموضع العالمي، ويتم
🌐 مروحة التكلفة في المدى، واستكشاف برمجيات على هذا المدى الفعال، وتحدد
🌐 خط رؤية سياسة في الوقت الذي ينوها التوجه إليه، وذلك مرتبطًا بعدة عوامل، وينبغي
🌐 أن يُلعب دور في الوقت الذي يُريد التوجه إليه، وذلك ببساطة، يجب على عامل أن يُدحده أن يُدحده.

🌐 NATIONAL COORDINATION OFFICE FOR SPACE-BASED POSITIONING, NAVIGATION & TIMING
Modernization Information

GPS.gov - Official U.S. Government information about the Global Positioning System (GPS) and related topics

GPS Modernization

It is the policy of the United States to maintain U.S. leadership in the service, provision, and use of satellite navigation systems. The U.S. government has additional policy goals to meet growing demands by improving the performance of GPS services, and to remain competitive with international satellite navigation systems. LEARN MORE...

The GPS modernization program is an ongoing, multibillion-dollar effort to upgrade the GPS space and control segments with new features to improve GPS performance. These features include new civilian and military signals.

In addition to the specific new features noted above, GPS modernization is introducing modern technologies throughout the space and control segments that will enhance overall performance. For example, legacy computers and communications systems are being replaced with a network-centric approach.
Performance Information

GPS.gov - Official U.S. Government information about the Global Positioning System (GPS) and related topics

GPS Accuracy

The U.S. government is committed to providing GPS to the civilian community at the performance levels specified in the GPS Standard Positioning Service (SPS) Performance Standard. For example, the GPS signal in space will provide a "worst case" pseudorange accuracy of 7.8 meters at a 95% confidence level. VIEW DOCUMENT...

The actual accuracy users attain depends on factors outside the government’s control, including atmospheric effects and receiver quality. Real-world data collected by the FAA show that some high-quality GPS SPS receivers currently provide better than 3 meter horizontal accuracy. VIEW DATA AT FAA.GOV...

Higher accuracy is available today by using GPS in combination with augmentation systems. These enable real-time positioning to within a few centimeters, and post-mission measurements at the millimeter level. LEARN MORE...

The U.S. government is committed to modernizing the GPS constellation to enable higher civilian accuracy without augmentations. The first of...
Homepage for Congress

GPS.gov

Official U.S. Government Information about the Global Positioning System (GPS) and related topics

FISCAL YEAR 2012
BUDGET
OF THE U.S. GOVERNMENT

Stories of Interest to Capitol Hill

Air Force Successfully Launches Second GPS IIF Satellite into Orbit

(29 July) On July 16, a Delta IV rocket successfully launched the GPS IIF-2 satellite into orbit from Cape Canaveral, Florida. It is the second of twelve GPS Block IIF satellites being built by Boeing to support GPS modernization. The IIF series adds a third civilian GPS signal for increased reliability and accuracy, especially for NextGen and other transportation safety applications. GPS IIF is also essential to constellation sustainment, as many current GPS satellites have greatly exceeded their design life spans.

CJS Approves Bill Addresses LightSquared-GPS Interference

(29 July) House appropriators included report language in the FY 2012 Commerce, Justice, and Science Appropriations Act (H.R. 2596) directing the National Telecommunications and
Homepage for Professionals – You!

Welcome GPS Experts, Developers, and Professional Users

Get Involved!

As a professional GPS user, your livelihood depends on the government’s continued funding, operation, maintenance, and modernization of the Global Positioning System.

It is in your interest to follow and participate in these processes to make sure the government meets your needs. Here are a few ways to do that.

Civil GPS Service Interface Committee (CGSIC)
The CGSIC meets annually and is open to anyone interested in GPS Issues. Information from CGSIC members and meetings is provided to U.S. GPS authorities for consideration in GPS policy development and GPS service operation.

Interface Control Working Group (ICWG)
The ICWG serves as a forum to develop and provide technical GPS interface requirements, as well as focus on...
Technical Documentation

It is the official policy of the U.S. government to provide open, free access to the information necessary to develop and build equipment to use the civil services of GPS and its augmentations. Learn more.

This section of the website provides easy access to all of the relevant technical documentation. Some links on this page lead to content in the Portable Document Format (PDF) and may require you to install PDF software. Get software.

INTERFACE CONTROL DOCUMENTS
These documents provide detailed information on the civil GPS signals and codes broadcast at the L1, L2, and L5 frequencies. Enter to access current versions of the GPS Interface Specifications, as well as information about ongoing efforts to update the documents through the Interface Control Working Group (ICWG).

PERFORMANCE STANDARDS & SPECIFICATIONS
These documents specify the levels of technical performance that users can expect from GPS and related systems. Enter to access current and past versions of the performance standards for the civil GPS service (CPS), military GPS service (MPS), Wide Area Augmentation System (WAAS), and U.S. GPS monitoring capabilities.

FEDERAL RADIONAVIGATION PLAN
The Federal Radionavigation Plan (FRP) is the official source of radionavigation policy and planning for the federal government. It covers both terrestrial and space-based, common-use, federally operated radionavigation systems, including GPS and GPS augmentations. This link opens a PDF of the 2010 FRP at the U.S. Coast Guard.

SEMI-CODELESS/CODELESS GPS ACCESS COMMITMENTS
These documents describe U.S. government commitments to support semi-codeless/codeless civilian access to the current P(Y) signals and the transition to the modernized L2C and L5 signals. Enter to access the 2008 Federal Register notice on semi-codeless/codeless GPS access.
ICWG Meeting Information

Public ICWG Meeting
September 13-15, 2011

Meeting Announcement (Updated)
Meeting Announcement (Original)

This official public notice in the Federal Register provides information on discussion topics, instructions for registration and comment submission, and points of contact. The updated version provides the meeting location and dial-in information.

Meeting Presentation (Updated August 2011)

August 2011 Version of Documents Under Review:
The GPS Directorate has updated the proposed change packages and will accept public comments on them either before or during the public ICWG event in September.

- Public Document Management (GPS III terminology and 3SV group delay)
- Pseudorandom Noise (PRN) Expansion
- User Range Accuracy (URA) Definition
- Almanac Intervals
- Pseudorange Parameters
- Technical Note 36
Future Improvements

• More frequent updates
• Merge PNT.gov → GPS.gov
• Constellation status
• Tutorials
• Applications database
  – Migrate data from NASA
  – Leverage CGSIC presentations?
• Professionals homepage
  – Conference presentations
  – Reference documents/links
  – What would make it more useful to you?