

# **Gps Time**

**Marco Cascella**

**Annual Precise Time and Time Interval (PTTI)  
Applications and Planning Meeting ,1993**

**Time and Navigation** Andrew Kenneth

Johnston,Roger Connor,Carlene E. Stephens,Paul E. Ceruzzi,2015 If you want to know where you are, you need a good clock. The surprising connection between time and place is explored in *Time and Navigation- The Untold Story of Getting from Here to There*, the companion book to the National Air and Space Museum exhibition of the same name. Today we use smartphones and GPS, but navigating has not always been so easy. The oldest clock is Earth itself, and the oldest means of keeping time came from observing changes in the sky. Early mariners like the Vikings accomplished amazing feats of navigation without using clocks at all. Pioneering seafarers in the Age of Exploration used dead reckoning and celestial navigation; later innovations such as sextants and marine chronometers honed these techniques by measuring latitude and longitude. When explorers turned their sights to the skies, they built on what had been learned at sea. For example, Charles Lindbergh used a bubble sextant on his record-breaking flights. World War II led to the development of new flight technologies, notably radio navigation, since celestial navigation was not suited for all-weather military operations. These forms of navigation were extended and enhanced when explorers began guiding spacecraft into space and across the solar system. Astronauts combined celestial navigation technology with radio transmissions. The development of the atomic clock revolutionized space flight because it could measure billionths of a second, thereby allowing mission teams to navigate more accurately. Scientists and engineers applied these technologies to navigation on earth to develop space-

based time and navigation services such as GPS that is used every day by people from all walks of life. While the history of navigation is one of constant change and innovation, it is also one of remarkable continuity. Time and Navigation tells the story of navigation to help us understand where we have been and how we got there so that we can understand where we are going.

Improvement GPS Time Link in Asia With All in View, 2005 GPS satellite orbits and clock offsets, which are provided by the International GPS Service IGS, caused a major transition with GPS time transfer methods. Since a satellite clock error, which is only canceled out by the common-view method, is greatly improved by IGS products, the all-in-view method archives better precision than the common-view method when the baseline of stations is very long. The time transfer quality in the Asia-Pacific region can be improved using the all-in-view because the timing centers in this region are widely separated. This paper shows the level of improvement of the time transfer quality between stations in Asia-Pacific region using the GPS all-in-view.

**Time and Navigation** Andrew K. Johnston, Roger D. Connor, Carlene E. Stephens, Paul E. Ceruzzi, 2015-06-02 If you want to know where you are, you need a good clock. The surprising connection between time and place is explored in *Time and Navigation: The Untold Story of Getting from Here to There*, the companion book to the National Air and Space Museum exhibition of the same name. Today we use smartphones and GPS, but navigating has not always been so easy. The oldest clock is Earth itself, and the oldest means of keeping time came from observing changes in the sky. Early mariners like the Vikings accomplished amazing feats of navigation without using clocks at all. Pioneering seafarers in the Age of

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**Stability of Geodetic GPS Time Links and Their Comparison to Two-Way Time Transfer**, 2004 We quantify and analyze the time differences between simultaneous results for several pairs of TAI laboratories using the Two-Way satellite Time Transfer (TWTT) and different techniques using geodetic GPS methods. These include the combined clock products from the International GPS Service (IGS) and dual-frequency P3 common-view time transfers. Usable results are available for a few

baselines over several months. The IGS and P3 results derive from the same GPS receivers, but P3 uses only the code measurements, while the IGS geodetic clocks use code plus phase and much more comprehensive modeling of the signal propagation. In addition, we compare these results to those obtained with C/A code GPS time receivers in classical common-view mode. All comparisons show levels of short-term noise and longer-term systematic effects well below 1 ns, with the exception of those involving the C/A code time receivers and a specific TWTT link. From the different comparisons and their interpretation, we infer the level of short-term noise and longer-term systematic effects for all techniques.

### **Annual Precise Time and Time Interval (PTTI) Applications and Planning Meeting ,1994**

Accurate Time and Frequency Transfer During Common-view of a GPS Satellite David W. Allan, 1980 Even though the Global Positioning System (GPS) is primarily a navigation system, if two clocks at known coordinates A and B are in common view of a single GPS satellite, receivers at these two clock sites may coincidentally receive transmitted GPS clock times. By subtracting the received times of arrivals as measured by clocks A and B at the two sites, while compensating for the propagation delays, one has an accurate measure of the time difference between clock A and clock B. When all of the error contributions are assessed, it appears that 1 ns time stability and 10 ns of time accuracy should be achievable in measuring remote clocks, at distances of the order of a few thousand km. The primary error sources are as follows: (1) uncertainties in the satellite ephemeris, (2) differential ionospheric delays, (3) uncertainties in tropospheric delay estimation, and (4) uncertainties in receiver delays. This common-view approach has been chosen because it provides an

opportunity for a high-accuracy (10 ns), relatively low-cost receiver, due to the common-view error cancellation achievable.

**An Assessment of Precision Time and Time Interval Science and Technology** National Research Council, Division on Engineering and Physical Sciences, Naval Studies Board, Committee for an Assessment of Precision Time and Time Interval Science and Technology, 2002-12-04 Knowledge of time is essential to precise knowledge of location, and for this reason the Navy, with its need to navigate on the high seas, has historically played an important role in the development and application of advanced time realization and dissemination technologies. Discoveries coming from basic research funded by the Office of Naval Research (ONR) lie at the heart of today's highest performance atomic clocks, Naval Research Laboratory (NRL) expertise played a role in developing the space-qualified atomic clocks that enable the Global Positioning System (GPS), and the U.S. Naval Observatory (USNO) maintains and disseminates the standard of time for all of the Department of Defense (DOD). The Navy has made major investments in most aspects of precision time and time interval (PTTI) science and technology, although specific PTTI-related research has also been funded by the Defense Advanced Research Projects Agency (DARPA) and non-DOD agencies such as the National Science Foundation (NSF), the National Aeronautics and Space Administration (NASA), and the Department of Commerce. Navy funding, largely through ONR, has a history of being an early enabler of key new developments. Judicious funding decisions by the Navy-particularly by ONR program officers-have underpinned most of the major advances in PTTI science and technology (S&T) in the last 50 years. PTTI is important to modern

naval needs, and indeed to all the armed Services, for use in both navigation and communications. Precise time synchronization is needed to efficiently determine the start of a code sequence in secure communications, to perform navigation, and to locate the position of signal emitters. Precise frequency control is required in communications for spectrum utilization and frequency-hopped spread-spectrum techniques. There are many examples of essential military operations that depend on PTTI and could benefit from improvements in PTTI technology. These include: -GPS clocks and autonomous operations, -Weapon system four-dimensional coordination, -GPS antijamming, -Network-centric warfare, and -Secure military communications. This report summarizes that reductions in the size, weight, and power requirements and increases in the ruggedness of PTTI devices without sacrificing performance would put more accurate and precise timekeeping in the hands of the warrior, improving capabilities in all of the above operations.

### **Real-time Global Positioning System (GPS)**

**Evaluation** Tony Jasumback,1996

**Transmission Systems Design Handbook for Wireless Networks** Harvey Lehpamer,2002 This practical new resource gives you a comprehensive understanding of the design and deployment of transmission networks for wireless applications. From principles and design, to equipment procurement, project management, testing, and operation, it's a practical, hands-on engineering guide with numerous real-life examples of turn-key operations in the wireless networking industry. This book, written for both technical and non-technical professionals, helps you deal with the costs and difficulties involved in setting up the local access with technologies that are still in the evolutionary stage. Issues involved in the deployment of

various transmission technologies, and their impact on the overall wireless network topology are discussed. Strategy and approach to transmission network planning, design and deployment are explored. The book offers practical guidelines and advice derived from the author's own experience on projects worldwide. You gain a solid grounding in third generation wireless networks with increased capacity requirements, while learning all about packet data architecture, and how it will impact future transmission network design and deployment.

Global Positioning System Time Transfer Receiver (GPS/TTR) Prototype Design and Initial Test Evaluation, 1981 Time transfer equipment and techniques used with the NRL Navigation Technology Satellites have been modified and extended for use with the GPS satellites . A prototype receiver was built and field tested at NASA's Kennedy Spaceflight Center. The receiver uses the GPS L1 link at 1575 MHz with C/A code only to resolve a measured range to the satellite . A theoretical range is computed from the satellite ephemeris transmitted in the data message and the user's coordinates. Results of user offset from GPS time are obtained by differencing the measured and theoretic, d ranges and applying calibration corrections. These results may be referenced to Naval Observatory Time through published values of offsets of GPS Time from USNO Master Clock 1 . Results of the first field test evaluation of the receiver are presented. Measurements were made at NASA Goddard's MILA facility located in the Kennedy Spaceflight Center, Fla. Portable clock measurements were made for comparison, and all measurements were referenced to the Naval Observatory.

**GPS Time Correlation and Its Implication for Precise Navigation** William David Summerfield



Roberts, Newcastle upon Tyne Univ. (GB), 1993

*A Contribution to the Ecology and Distribution of Annelids in Paiko Lagoon, Oahu* Kevin Thomas, 1973

**One-Way GPS Time Transfer 2000**, 2000 On 1 May 2000, the White House issued a Presidential directive for the Global Positioning System (GPS) to turn off Selective Availability (SA) on 2 May 2000. For nearly a decade, authorized user performance of one-way synchronization via GPS has improved every single year. This paper provides an annual assessment of how well the Global Positioning System can predict and disseminate UTC (USNO) to these specified users, based on data generated and processed by the United States Naval Observatory (USNO). And, because the recent Presidential directive now permits civilian timing users to exploit nearly the same, impressive time transfer accuracy of GPS, these annual metrics now offer a fairly representative performance assessment for both military and civilian timing users.

**GPS-based Optimal FIR Filtering of Clock Models** Yuriy Shmaliy, 2009 This book addresses novel results in the field of optimal finite impulse response (FIR) estimation and steering of the local clock time errors using the Global Positioning System (GPS) timing signals. The studies are motivated by permanently increased demands for accuracy of the local timescales in different areas of applications of wire and wireless digital systems. The main limitations of accuracy here are the GPS time uncertainty caused by different satellites in a view and the sawtooth noise induced by the commercially available GPS timing receivers owing to the principle of the one pulse per second (1PPS) signal formation. Due to the GPS time uncertainty, flicker components of the clock noise, and non Gaussian sawtooth noise, the standard Kalman algorithms

may become unstable and noisy, even when the sawtooth correction is applied. We show that an efficient way of providing stable and accurate filtering, smoothing, prediction, and steering of the local clock errors is to use the optimal FIR structures, which are inherently bounded input/bounded output (BIBO) stable and more robust against temporary uncertainties and round-off errors. Moreover, unbiased polynomial FIR solutions having strong engineering features become actually optimal by large averaging horizons typically used in timekeeping. Such solutions are found and investigated in detail theoretically and for real measurements. Based upon, it is stated that optimal (unbiased) FIR estimators are likely the best candidates to use in the modern filtering, prediction, and synchronisations algorithms intended for the estimation and steering of local clocks.

A Globally Efficient Means of Distributing UTC Time & Frequency Through GPS. ,1994 Time and frequency outputs comparable in quality to the best laboratories have been demonstrated on an integrated system suitable for field application on a global basis. The system measures the time difference between 1 pulse-per-second (pps) signals derived from local primary frequency standards and from a multi-channel GPS CIA receiver. The measured data is processed through optimal SA Filter algorithms that enhance both the stability and accuracy of GPS timing signals. Experiments were run simultaneously at four different sites. Even with large distances between sites, the overall results show a high degree of cross-correlation of the SA noise. With sufficiently long simultaneous measurement sequences, the data shows that determination of the difference in local frequency from an accepted remote standard to better than  $1 \times 10^{-12}$  is possible. This method yields frequency accuracy, stability, and

timing stable comparable to that obtained with more conventional common-view experiments. In addition, this approach provides UTC(USNO MC) in real time to an accuracy better than 20 ns without the problems normally associated with conventional common-view techniques. An experimental tracking loop was also set up to demonstrate the use of enhanced GPS for dissemination of UTC(USNO MC) over a wide geographic area. Properly disciplining a cesium standard with a multi-channel GPS receiver, with additional input from USNO, has been found to permit maintaining a timing precision of better than 10 ns between Palo Alto, CA and Washington, DC.

*26th Annual Precise Time and Time Interval (PTTI) Applications and Planning Meeting ,1995*

Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office,1999

**Global Positioning System (GPS) Time Dissemination for Real-time Applications** Peter Hutton Dana,1997

**Bücher-Verzeichniß zur Versteigerung in Leipzig** ,1810

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