

GNSS Activities at the U.S. Naval Observatory

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The Earth Orientation Department at the U.S. Naval Observatory (USNO) produces precise Earth orientation parameters on a daily basis. As part of this activity, we contribute to the international GNSS community as an IGS Associate Analysis Center, producing Rapid and Ultra-Rapid products on a daily and sub-daily basis. The accuracies of these products have improved significantly by the implementation of modified processing strategies and the addition of modernized software. This paper describes our method of orbit determination and prediction, the improvements to our products, and relevant research currently being pursued at USNO.