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Troposphere Working Group

Sharyl Byram

Overview of the TWG Charter

- TWG Chair – Dr. Sharyl Byram, Chief of the GPS Analysis Division, Earth Orientation Department, US Naval Observatory
- Assess/improve the accuracy/precision of IGS GNSS-based troposphere estimates.
- Improve the usability of IGS troposphere estimates.
 - Confer with outside agencies interested in the use of IGS products.
 - Assess which new estimates should be added as “official” IGS products, and which, if any, official troposphere product sets should be discontinued.
- Provide and maintain expertise in troposphere-estimate techniques, issues and applications.

Progress since last AM Meeting (Dec 2019)

- Tropo Sinex v2.00 format finalized
 - Rosa Pacione and Jan Dousa leading
 - Supports:
 - Different Sources
 - Long Station Names from RINEX 3
 - Slant Delays
 - Long-term Time-series Station Parameters
- Tropo Comparison Interactive Website available for use
 - Christine Hackman and Jan Dousa leading

IGS Goals

Serving the community with **facilitation**, **coordination**, **incubation**, and **advocacy** in three strategic goals

GOAL **1** Achieve Multi-GNSS Technical Excellence



GOAL **2** Strengthen Outreach and Engagement

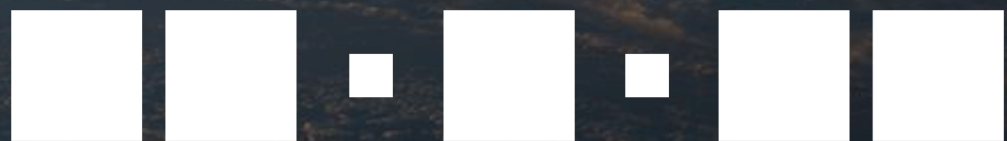


GOAL **3** Build Sustainability and Resilience



Future Work

- Tropo Sinex v2.00: Request IGS to formally adopt
- Updates to Tropo Comparison Website
- Next TWG meeting (virtual) in January 2022 (likely week of 24th)
 - Discussion of next projects for TWG, ideas solicited via survey sent out to mailing list a few weeks ago
 - Multi-GNSS estimates?
 - Reference ZTD used for climate science?
 - Expanded comparisons?
 - Discussion/nomination of Deputy Chair Position
 - Updating charter



IGS

INTERNATIONAL
GNSS SERVICE

Thank You!

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