Overview of the Working Group Charter

- PPP-AR: precise point positioning with ambiguity resolution
- Established Nov. 2018, Wuhan
- Purpose: “Analyze the feasibility and benefits of having the IGS adopt a modernized combination process considering the consistency of the satellite clock and bias products”
- Goals (high level)
  - Verify the interoperability of clock/bias products generated by IGS analysis centers
  - Initiate a pilot project to expose the combined clock/bias solution to open testing
Progress since last AM Meeting (Dec 2019) (1/2)

- Demonstrated interoperability of GPS clock/bias products

- Encouraged the exchange of satellite attitude information

- Made available open source code for satellite attitude modeling

- Proposed a new convention for bias interoperability with regards to phase center offsets
  - IGSMAIL-8113
Progress since last AM Meeting (Dec 2019) (2/2)

- Generated combined multi-GNSS clock/bias corrections for repro3 (in progress)
  - Performed by Prof. Jianghui Geng and his team (Wuhan University)

- Updated IGS PPP-AR WG webpage
  - [https://igs.org/wg/precise-point-positioning-ppp/](https://igs.org/wg/precise-point-positioning-ppp/)

- Promoted the development of PPP-AR through special issue in Remote Sensing
Future Work

• Produce and validate repro3 multi-GNSS clock/bias combined products by the 2022 IGS workshop in Boulder

• When repro3 standards are adopted for the operational products (~summer 2022):
  • Adopt new PCO convention regarding biases
  • Provide operational multi-GNSS combined products enabling PPP-AR
Thank You!

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