Dear colleagues,

On November 27, 2024, members of the PPP-AR Pilot Project had a virtual meeting. This meeting aimed to review the recent progress of the PPP-AR Pilot Project and introduce a potential Analysis Center HUS, which can provide orbit/clock/bias products to enhance the interoperability among ACs, especially for BDS-3. The meeting also discussed some technical issues related to the quality, consistency of current PPP-AR products, as well as the effectiveness of current products in addressing the day-boundary discontinuity issue.

Here are the main takeaways from the meeting:

1. All members reviewed the one-year progress of the IGS ACs' PPP-AR products which contributes to multi-GNSS excellence and enable more convenient inter-operation among these products.

2. The one-year routine orbit/clock/bias combination results in PPP-AR Pilot Project were reviewed. The identified AC-specific product problems via cross-validation were discussed. Researchers from GRG, GFZ, and WHU provided explanations for these issues and committed to conducting in-depth investigations to implement improvements.

3. The routine product combination provides an effective and objective evaluation of AC products, leading to increased demand from ACs to join the mailing list for this routine combination.

4. The MGEX rapid and final products from HUS (Huazhong University of Science and Technology) will be incorporated into the routine combination after examining the quality and stability of their products. They provide phase bias products for the GPS, Galileo, and BDS-2/3 constellations, which will improve the interoperability among ACs, particularly for BDS-3 products.

5. By merely providing 24:00 epoch orbit/clock estimates in products may not be sufficient to resolve the day-boundary issues in terms of kinematic positioning across days. Precise alignment for PPP-AR products, particularly for clock and bias, between consecutive days is recommended.