Preparation for ITRF2020

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Roadmap for the next ITRF solution: 2019 or 2020?

- **Consultation was sent to the technique ACCs and GGFC on January 24, 2018**

- **An inventory (list) of all effects and model updates to be considered by all techniques in the reprocessing effort**

- **Questions:**
  - **Review the list of effects & models**
  - **Indicate the time needed for Software update**
  - **Indicate the time needed to accomplish the reprocessing of the full history of observations?**

IVS Feedback so far

- **IVS: Response from John Gipson:**
  - General agreement, except:
  - HF-EOP model to be recommended by the WG
  - Loading model (Atmospheric?) will be applied
  - Include the "removable" model corrections in SINEX
  - High priority to updating software to apply gravitational deformation.
- **IVS time line for reprocessing:**
  - No major obstacle. Discussion with ACs at IVS GM in June 2018

Summary and Conclusion

- **General agreement GM of all techniques regarding proposed effects and model updates to be considered for the reprocessing**

- **Most techniques (esp. IGS & IDS) favor ITRF2020**

- **Will go for ITRF2020, but the ITRS Center will**
  - **Issue a CfP by end of 2018 with all specifications, in close consultations with all players**
  - **Request specific solutions for testing purposes, e.g.**
    - **SLR range biases estimated**
    - **New HF-EOP model applied**
    - **Others TBD**

- **Follow up by all ACCs of the effects and model updates, with regular report to ITRS and IERS DB**

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IVS contribution to ITRF2020

1. **Implementation of linear mean pole model in IVS Software packages**

2. **HF - EOP: use a new model in coordination with other techniques. Any progress of the WG on this?**

3. **Structural gravitational deformation:**
   a) **Update software to apply models to as many antennas as possible.**
   b) **Any new antenna measurements done (to be done) ?**

4. **Loading model:**
   a) **ensure the same loading model is used by all techniques and all ACs,**
   b) **provide contribution of loading corrections to the right-hand side of the normal equation in SINEX**

5. **Include coordinates of radio-sources and nutation parameters in SINEX**

6. **Source structure: Any simulations done (or to be done) to show if it helps/improves IVS results?**

7. **Relativity?**

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