Geophysical Research Abstracts Vol. 19, EGU2017-19347, 2017 EGU General Assembly 2017 © Author(s) 2017. CC Attribution 3.0 License.



## **DORIS** research activities at Geodetic Observatory Pecny

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Geodesy Observatory Pecný (GOP) provides one of the International DORIS Service (IDS) analyses centers, participating on the combined IDS products including the solution for ITRF2014. As the unique approach, GOP employs a DORIS-developed version of the Bernese GPS Software. The recent research focuses on several topics. Our experiment, based on 9 year of data, shows a possibility to reach LOD estimation accuracy close to 0.1 msec per day (compared to reference IERS C04 model), when not adjusting the cross-track harmonics in the Satellite orbit model. We also compare different preprocessing strategies and data weighting and discuss the impact on the solution accuracy and on the scale bias. Moreover, we present the initial results of the station clock modelling from the DORIS/pseudorange measurements.