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Global combination of a terrestrial frame and Earth Orientation Parameters at the observation level

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A rigorous approach to simultaneously determine a terrestrial reference frame (TRF) and Earth Orientation Parameters (EOP) is now currently applied on a routine basis in a coordinated project within the Groupe de Recherches de Geodesie Spatiale (GRGS), scientific consortium comprising different institutes and research groups.Data of each individual technique are processed by expert groups : GPS at Noveltis, DORIS at CLS, SLR at OCA, VLBI at the Observatoire de Bordeaux, LLR at CNES. Combinations are performed at the Observatoire de Paris where validation is performed for EOP whereas those of TRF is performed at IGN. The different Data Analysis Centers are regularly making available SINEX matrices to the Combination Center. These individual matrices are then stacked to derive weekly solutions of TRF+EOP. The resulting combined products are then made available to the scientific community via the IERS. So far, 42 weeks were processed for all techniques. The presentation shows recent analyses obtained and discusses the latest results.