

## Initial combination of our SLR weekly solutions with other Analysis Centers

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SINEX files on LAGEOS-1, LAGEOS-2, ETALON-1, and ETALON-2 are combined to generate our loosely constrained EOP and station positions solutions. Then we combined our solutions with other Analysis Centers (ACs) including ASI, BKG, DGFI, ESA, GFZ, JCET and NSGF. The main lines of the combination methodology rely on direct combination of loosely constrained solutions. Then we use rigorous Variance Component Estimation (VCE) to estimate the variance scaling factors for each of the contributed solutions. The calculated variance factors show that our SINEX file have a same precision with other ACs. Additionally, we compare our combined solutions with ILRS official combined product (ILRSA) and ILRS official backup combined product (ILRSB), it shows a good consistency between the three. Finally, we make a comparison between our combined solutions and ITRF2014. The core sites coordinate have a better agreement with ITRF2014 than non-core sites. The geocenter motion derived from the solution just have a slight difference with ITRF2014 origins. Moreover, with respect to IERS EOP C04, our EOP products look pretty good and stable.