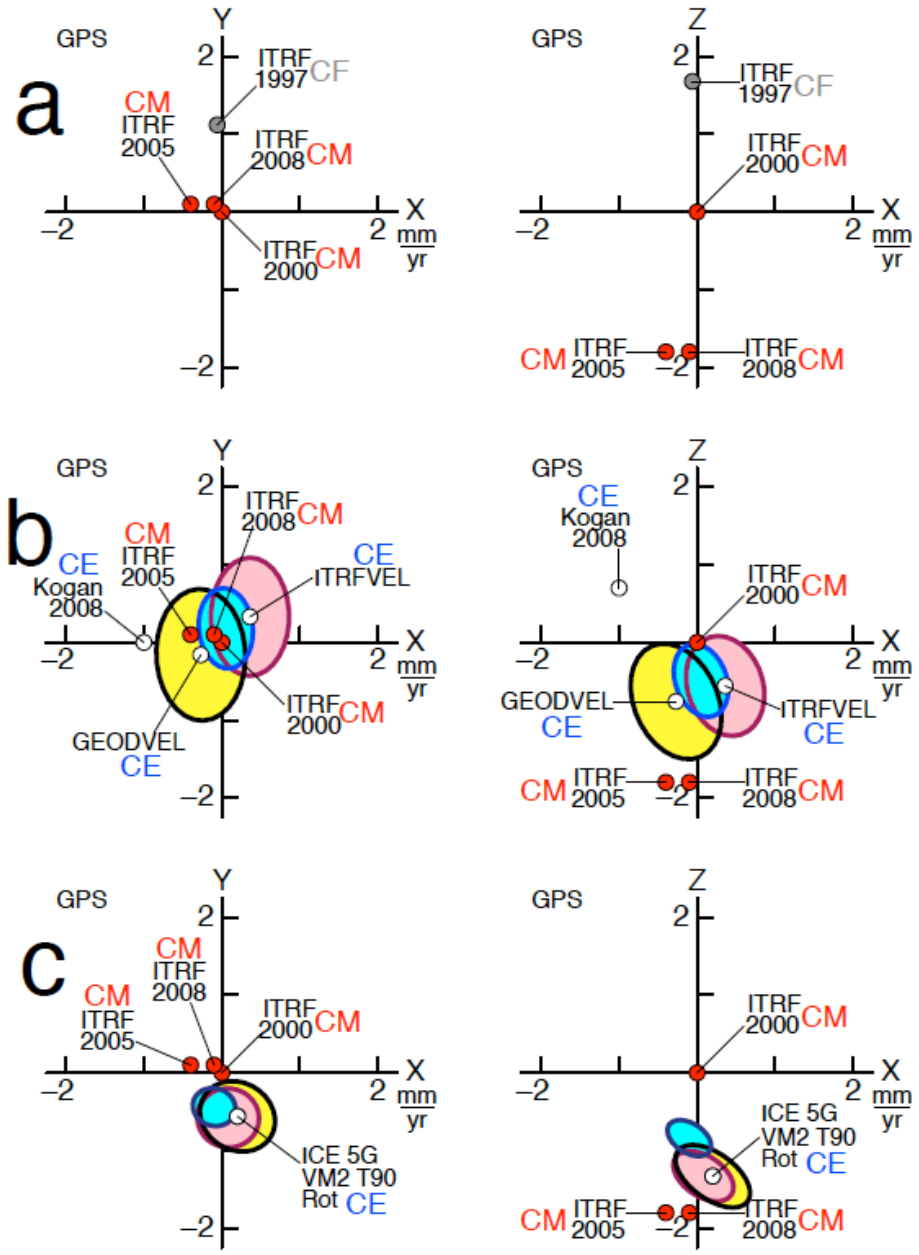


Figure S3. Estimates of the velocity of Earth's center, the point relative to which site velocities are estimated: (a) The velocity of the (CM) center of mass of Earth, oceans, and atmosphere in ITRF2008, ITRF2005, and ITRF2000 and the (CF) mean velocity of Earth's surface in ITRF1997. (b) Three estimates of the velocity of the (CE) center of mass of solid Earth determined from horizontal observations by assuming that places on plate interiors not near the former ice sheets are, besides plate motion, moving negligibly in the horizontal relative to CE: (yellow filled 95% confidence limits) GEODVEL [Argus et al. 2010], (pink filled 95% confidence limits) determined in this study from the ITRF2008 set of site velocities, (blue filled 95% confidence limits) determined in this study from the VLBI, SLR, and DORIS velocity models in Argus et al. [2010] and the GPS velocity model in this study. (c) Three estimates of the velocity of CE determined from vertical observations assuming that places on the plate interiors are moving vertically relative to CE as predicted by postglacial rebound model ICE-5G VM2 T90 Rot [Peltier 2007] (from the same three data sets as in (b)).