

Dynamic Datum (total displacements)	
Horizontal	
Vectors	Description
dispNEvec_YYYYMMDD.pdf	Interseismic model + horizontal (NE) transients = accumulating total displacements since t0 (input to dynamic datum grids): Note: This shows the total motions so may partially obscure in time the transient motions and vice versa.
Grids	
dispNgrid_YYYYMMDD.pdf/grd; dispEgrid_YYYYMMDD.pdf/grd	Gridded North/East total displacements accumulating since t0. Zeng and Shen (2017) prediction [ucerf3_0.05_itrf_v*.grd] + surface interpolation of residuals between observations and model; Areas >75 km from GPS stations are masked.
misfitNgrid_YYYYMMDD.pdf/grd; misfitEgrid_YYYYMMDD.pdf/grd	Gridded North/East accumulating misfits, > 75 km mask. Gridded point values of displacements compared to interpolated values at reference stations.
Residuals	
residualNgridM_YYYYMMDD.pdf/grd; residualEgridM_YYYYMMDD.pdf/grd	Median North and East residuals between observed GNSS motions and Zeng and Shen (2017) interseismic predicted model motions
Data Tables	
dispNEgrid_YYYYMMDD.dat	North and East dynamic datum observations and predictions (FORMAT: lon; lat; NobsTotal; EobsTotal; NpredDynDat; EpredDynDat). Total displacements and dynamic datum
misfitNEgrid_YYYYMMDD.dat	North and East misfits dynamic datum observations and prediction (FORMAT: lon; lat; NobsTotal; EobsTotal; misfitNpredDynDat; misfitEpredDynDat). Total displacements and dynamic datum
residualNEgridM_YYYYMMDD.dat;	Median North and East residuals between observed GNSS motions and Zeng and Shen (2017) interseismic predicted model motions (FORMAT: lon; lat; Nresid; Eresid).
Vertical	
Vectors	Description
dispUvec_YYYYMMDD.pdf	Up displacements accumulating since t0
Grids	
dispUgrid_YYYYMMDD.pdf/grd	Gridded up displacements accumulating since t0; >75 km mask.
misfitUgrid_YYYYMMDD.pdf/grd	Gridded Up of accumulating computed misfits, > 75 km mask. Gridded <u>absolute values</u> of residuals between dynamic datum displacements compared to interpolated values at reference stations.
Residuals	
residualUvec_YYYYMMDD.pdf/grd	Residuals between point value at station and interpolated grid value. Note: Corresponds to residualUgrid
residualUgrid_YYYYMMDD.pdf/grd	Gridded Up residuals between point value at reference station and interpolated grid values (observation - interpolated value). Note: misfitUgrid*.grd calculated using these values; see residualUvec*.dat data tables for station point values.
Data Tables	
dispUgrid_YYYYMMDD.dat	Observed up displacements and predicted up displacement from the green spline interpolation (FORMAT: lon; lat; measured; predicted).
residualUvec_YYYYMMDD.dat	Residual up values between observed displacement and the interpolated predicted values (FORMAT: lon; lat; Residual).