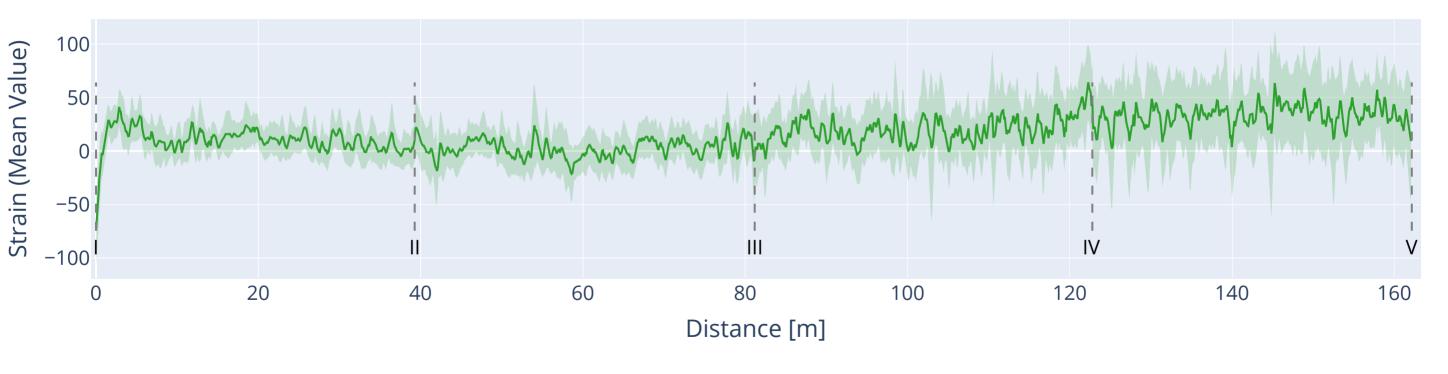Mean Strain Distributions with Standard Deviation from DPGMM Clusters for Beam D