



Figure S6. Eszopiclone effects on N3 SOs and their coordination with spindles. a) Topographical maps of mean SO phase at spindle peak during the placebo and eszopiclone visits (averaged across groups and nights) and a statistical map of their difference. On eszopiclone, spindles peaked earlier in the SO upstate. Electrodes highlighted in green meet a cluster corrected threshold of $p < .05$. Circular plots show SO phase at Cz. Lines represent the mean SO phase for each participant. Arrows represent group means and their length represents the consistency of the spindle-SO phase locking across participants. Right column: Mapping of SO phase to topographical maps and circular plots. b) Topographical maps of SO and spindle-SO coordination parameters during the placebo and eszopiclone visits and statistical maps of their difference. Electrodes with a cluster-corrected $p < .05$ and $p_{uncorrected} < .05$ are highlighted with green and black respectively. c) Plot of the relation of SO amplitude with spindle-SO phase consistency, averaged over the placebo and eszopiclone visits in the cluster showing a significant correlation (inset shows significant cluster). Regression line is for the combined groups and drug visits.