1125-92-1655 Suzannah R Tebon* (tebonsr@beloit.edu), Kiefer Green, Richard Noriega and Erin Munro. UP Phase Characterization. Preliminary report.

UP phases are periods of high amplitude neural firing that are a characterizing aspect of slow wave sleep. In order to better understand the potential effects of UP phases in slow wave sleep we investigate where UP phases originate. UP phase origins are determined by latency calculations based on current source density data. By using Independent Component Analysis we are able to locate sources of neural activity and look at their contribution to the overall neural activity that is picked up by the recording electrode. This has led to the locating of two neural sources, BL5 and SUB. UP phases during sleep dominated by BL5 or SUB activity originated in different locations. This could lead to better understanding of what causes UP phases and their potential effects on sleep. (Received September 18, 2016)