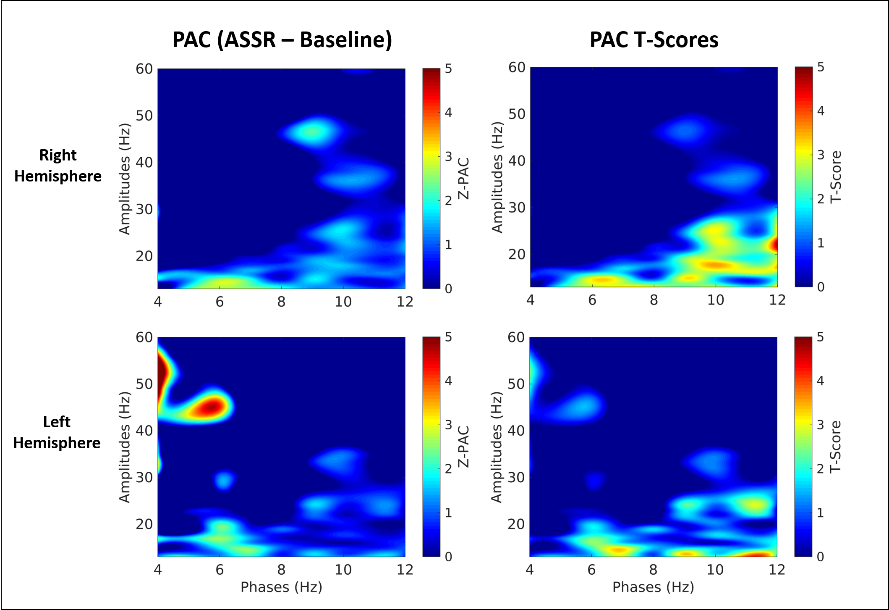
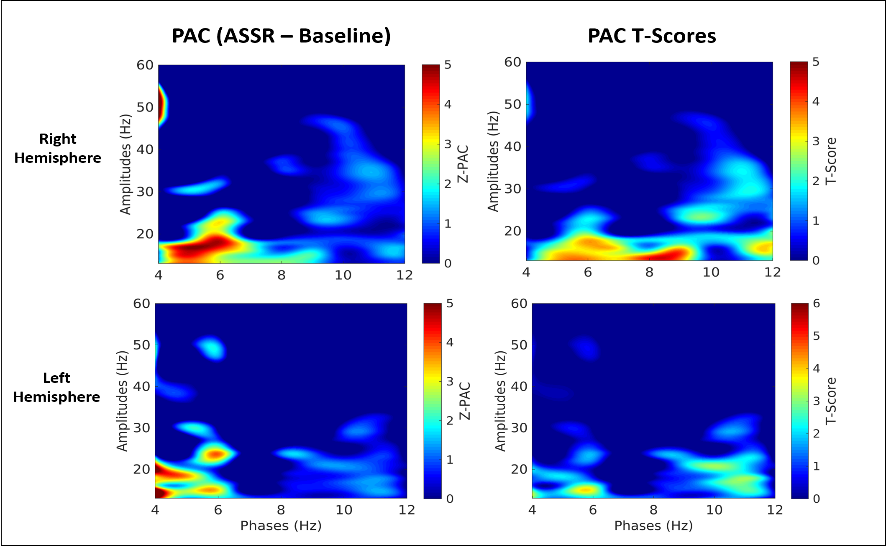
**Supplemental Information**

**Supplement 1 – Phase-Amplitude Coupling**

**Figure S1,** Left and right hemisphere PAC during the evoked 30 Hz ASSR condition**.**



**Figure S2,** Left and right hemisphere PAC during the evoked 20 Hz ASSR condition**.**

A close up of a map

Description automatically generated  
**Figure S3,** Distribution of the canonical discriminant functions described in the posthoc follow-up to the Multivariate Analysis of Covariance conducted on the baseline time-period PAC data.

**Supplement 2 – ASSR Wavelet Power**

**Figure S4,** Left and right hemisphere time-frequency representations of the evoked wavelet data during the 30 Hz ASSR condition.

**Figure S5,** Left and right hemisphere time-frequency representations of the evoked wavelet data during the 20 Hz ASSR condition.

**Supplement 3 – ASSR Wavelet Inter-Trial Phase Coherence**

**Figure S6,** Left and right hemisphere time-frequency inter-trial phase coherence during the evoked 40 Hz ASSR condition.

**Figure S7,** Left and right hemisphere time-frequency inter-trial phase coherence during the evoked 30 Hz ASSR condition.

**Figure S8,** Left and right hemisphere time-frequency inter-trial phase coherence during the evoked 20 Hz ASSR condition**.**