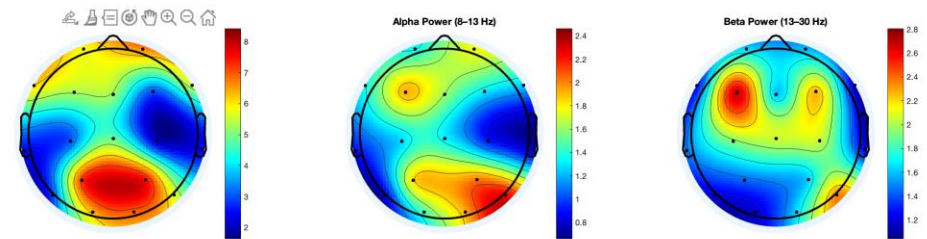
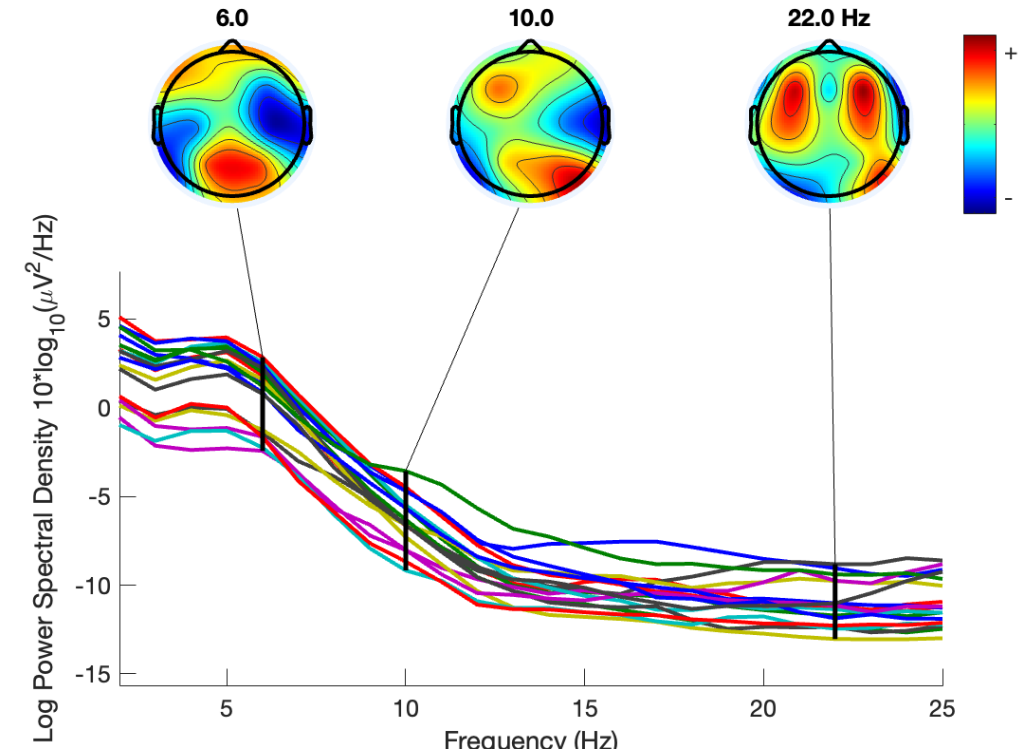


EEG Analysis: From ICA Cleaning to Bandpower Topomaps_v1.1

OpenNeuro Subject 001 (Resting-State, 19 Channels)

- **Tools Used:** MATLAB, EEGLAB
- **Dataset:** OpenNeuro ds004504 (Clinical, Eyes Closed)
- **Channels:** 19 electrodes, standard 10–20 layout
- **Pipeline Summary:**
 - Loaded .set file in EEGLAB
 - Automated artifact rejection via `clean_rawdata()` and `ICLabel` (e.g., blinks, muscle, ECG)
 - PSD computed (2–25 Hz)
 - Bandpower extracted (Theta, Alpha, Beta)
 - 3 scalp topographic maps visualized

Independent EEG preprocessing and analysis project using EEGLAB and MATLAB. Demonstrates artifact rejection, frequency-domain feature extraction, and spatial topographic visualization from clinical data.



EEG Analysis: From ICA Cleaning to Bandpower Topomaps_v1

OpenNeuro Subject 001 (Resting-State, 19 Channels)

- **Tools Used:** MATLAB, EEGLAB
- **Dataset:** OpenNeuro ds004504 (Clinical, Eyes Closed)
- **Channels:** 19 electrodes, standard 10–20 layout
- **Pipeline Summary:**
 - Loaded .set file in EEGLAB
 - ICA-based artifact rejection (eye blinks, muscle)
 - PSD computed (2–25 Hz)
 - Bandpower extracted (Theta, Alpha, Beta)
 - 3 scalp topographic maps visualized

Independent EEG preprocessing and analysis project using EEGLAB and MATLAB. Demonstrates artifact rejection, frequency-domain feature extraction, and spatial topographic visualization from clinical data.

