**Directories bolded**

Script names underlined

**criteria csvs:**

SUBJECT-LEVEL CRITERIA RESULTS (subject data vs. subject maps)

* **individual\_csvs**: generated from individual\_criteria\_testing.m
  + produces csvs for each subject with criteria values for:
    - 4-10 cluster solutions
    - 1000, 2000, and all GFP peaks sample sizes
    - 5 runs each for downsampled sizes
* **individual\_csvs\_1020channels**: generated from individual\_criteria\_testing\_1020channels.m
  + produces csvs for each subject with criteria values for:
    - 4-10 cluster solutions
    - using all GFP peaks

MEAN-LEVEL (EC and EO) CRITERIA RESULTS (subject data vs. mean maps)

* **meanmap\_csvs, meanmap\_csvs\_1020channels:** both generated from meanmaps\_vs\_subjects\_critera\_testing.m (change variable names where indicated)
  + produces csvs for each subject with criteria values for:
    - 4-10 cluster solutions
    - using all GFP peaks
* **meanmaps\_from\_indmaps\_csvs:**
  + csvs within subfolders generated from meanmaps\_from\_optimalind\_vs\_subjects\_critera\_testing.m
    - produces csvs for each subject with criteria values for:
      * 4-10 cluster solutions
      * using all GFP peaks
  + csvs in main folder generated from meanmaps\_vs\_optimalindmaps.m
    - produces csvs for each set of mean maps generated from optimal individual maps with criteria values for:
      * 4-10 cluster solutions
      * using all GFP peaks

**generate\_criteria\_GFPPeaks:** function to generate criteria values from a passed-in EEG set using only GFP peaks in the data

**generate\_criteria\_IndMaps:** function to generate criteria values from an msinfo struct including the microstate maps and a matrix of the individual samples

**EEGLAB sets:**

* **TD\_EC\_EO\_3-11microstates:** TD EC EO resting state data with 3-11 microstates run using all 71 channels
* **TD\_EC\_EO\_3-11microstates\_1020channels:** TD EC EO resting state data with 3-11 microstates run using only 10-20 channels
* **TD\_EC\_EO\_Mean\_Sets:** various mean sets, separated by eyes-closed and eyes-open (filenames describe contents)
* make\_meanmaps\_from\_optimalindmaps.m: generates mean EEG sets with microstate maps created from running k-means clustering on the optimal subject-level maps from the specified set of data (change variable names where indicated to generate different mean sets)

**figures:** for all listed scripts, change variable names where indicated to generate different versions (10-20 channels, 71 channels, subjects vs. subject-level maps, subjects vs. mean-level maps)

* **correlation matrices**: generated from correlation\_matrices.m
  + individual and average correlation matrix heatmaps between criteria
* **criteria histograms scatterplots:** generated from criteria\_scatterplots\_histograms.m
  + scatterplots of normalized criteria values across all subjects and conditions
  + histograms of optimal cluster numbers predicted by each criteria across all subjects and conditions
* **EC vs. EO criteria histograms:** generated from ECvsEO\_criteria\_histograms.m
  + histograms of optimal cluster numbers predicted by each criteria across all subjects, separated by condition (eyes-closed vs. eyes open)
* **EC vs EO metacriterion histograms:** generated from ECvsEO\_metacriterion\_histograms.m
  + histograms of optimal cluster numbers predicted by each criteria across all subjects
  + separated in folders based on condition (EC or EO) and maps used (subject or mean)
  + filenames include criteria used and metacriterion version used (IQM\*SNR or median vote)
* **accuracy\_plot:** generated from accuracy\_plot.m
  + average correlation between downsampled and true criterion

**quantify\_csvs**

* **EC and EO:** quantify csv results generated using mean-level EC or EO maps, from quantify\_individuals\_by\_mean.m
* Remaining files were generated from EEGLAB GUI