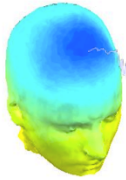
STUDY plot menu



Task 1

Plot cluster summaries

Task 2

Plot individual ICs

Task 3

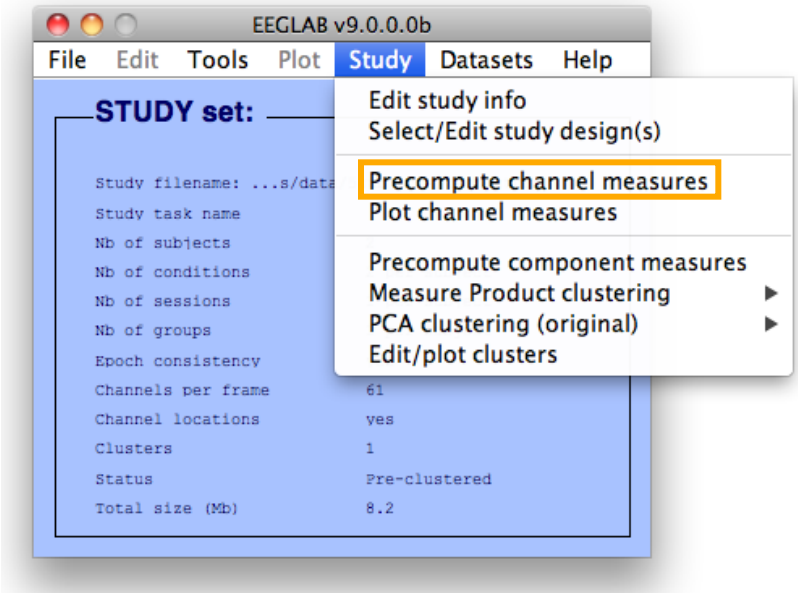
Plot using statistical thresholds

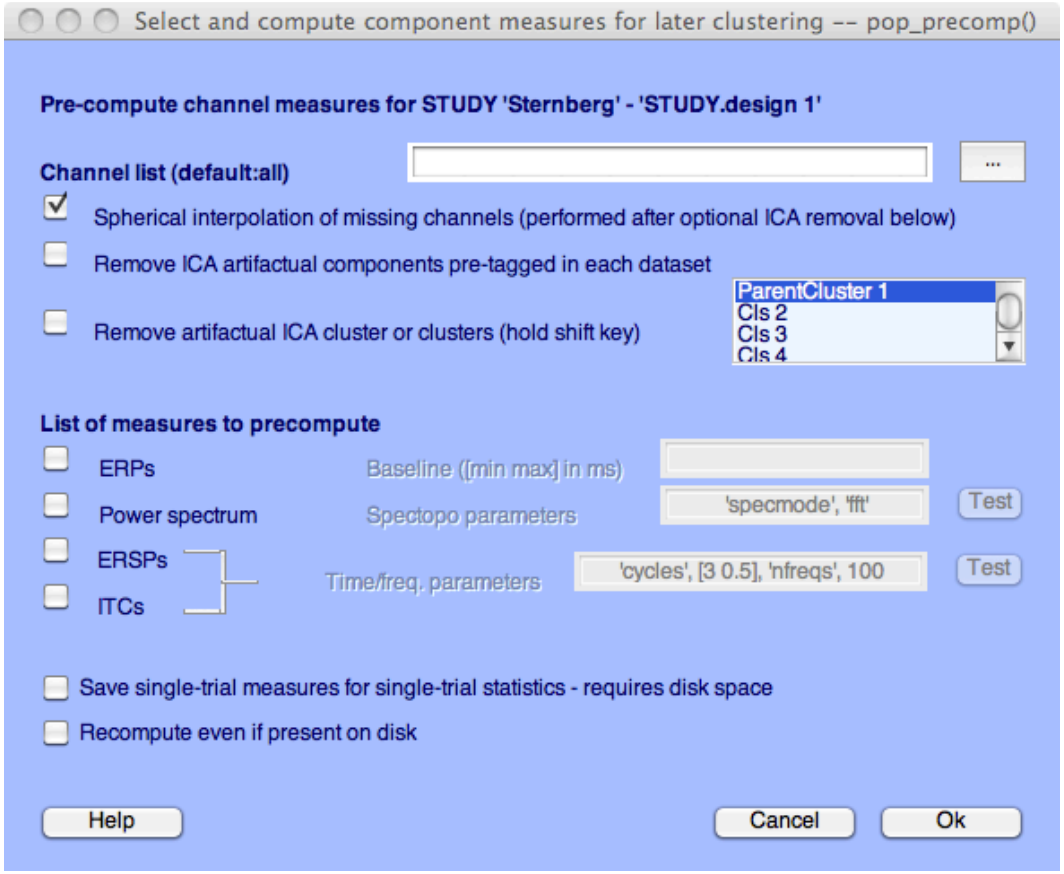
Task 3

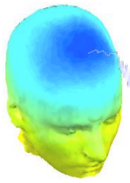
Eliminate/reassign ICs

Exercise...

Precompute data measures







Choose which channel

Choose which subject

View and edit current channels -- pop_chanplot()

Study ''

Select channel to plot

Sel. all

All FP1
All FP2
All F3
All F4
All C3
All C4

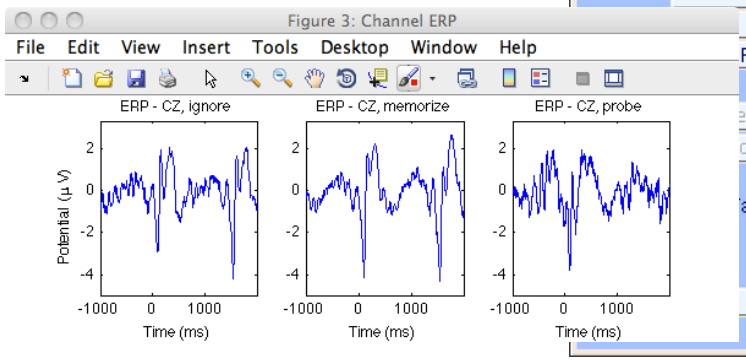
Select subject(s) to plot

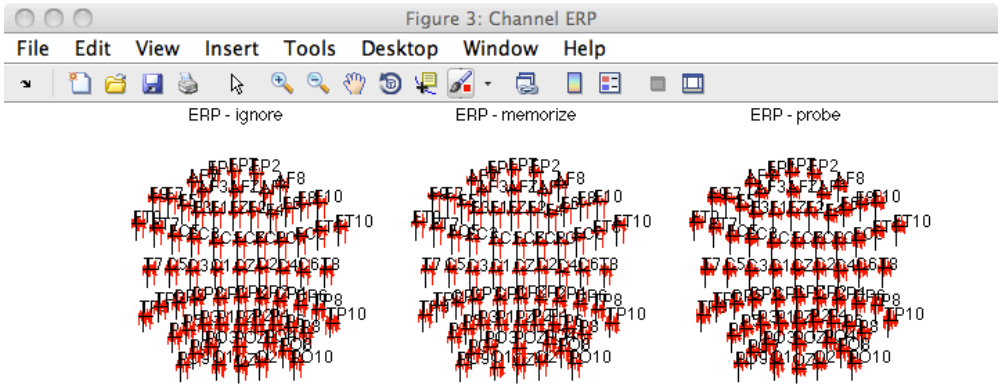
All subjects
cba FP1
clm FP1
ega FP1
fsa FP1
gro FP1

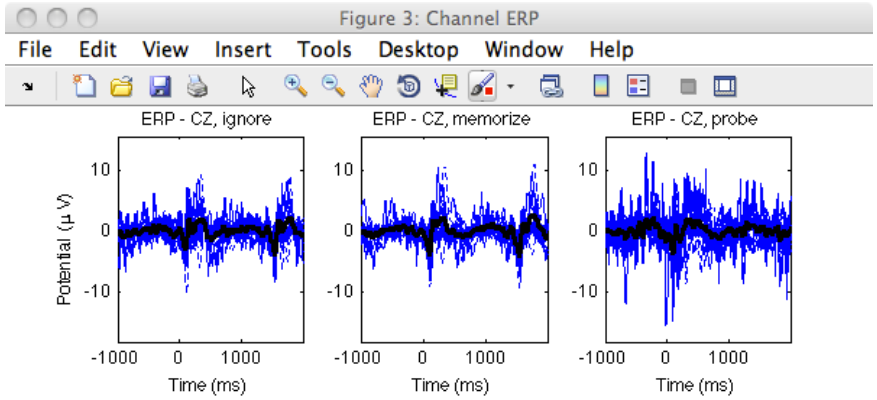
Plot ERPs | Params | Plot ERP(s)
Plot spectra | Params | Plot spectra
Plot ERSPs | Params | Plot ERSP(s)
Plot ITCs | | Plot ITC(s)
Plot channel properties | | Plot channel properties (soon)
eate channel group (soon) | | Delete channel group (soon)
dit channel group (soon)

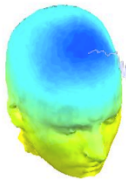
ave STUDY set to disk /home/delorme/matlab/animal/animal.stu ...

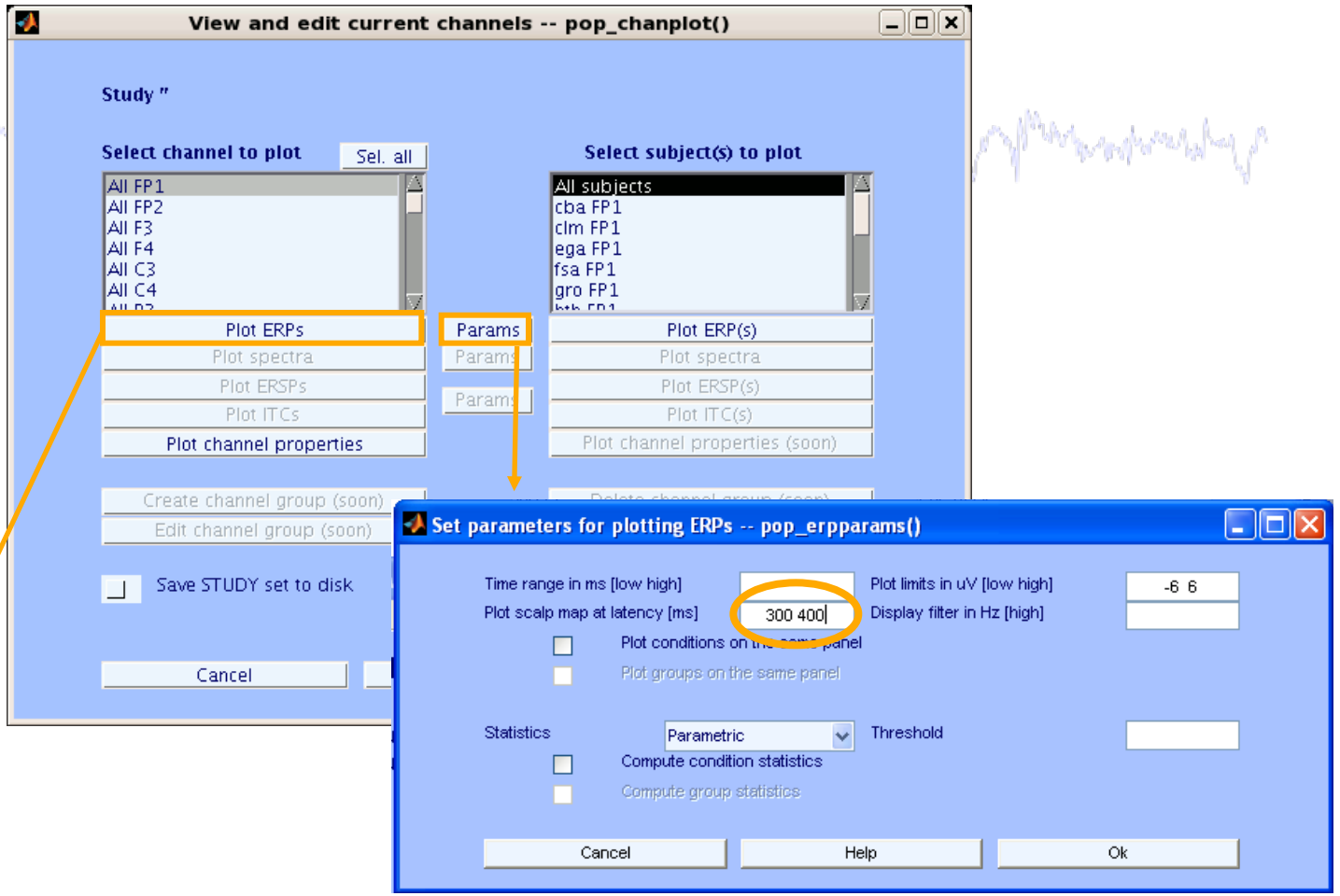
Cancel | Help | Ok










View and edit current channels -- pop_chanplot()
Study ''
Select channel to plot
Sel. all
All FP1
All FP2
All F3
All F4
All C3
All C4
Select subject(s) to plot
All subjects
cba FP1
clm FP1
ega FP1
fsa FP1
gro FP1
Plot ERPs
Params
Plot ERP(s)
Plot spectra
Plot ERSPs
Plot ERSP(s)
Plot ITCs
Plot ITC(s)
Plot channel properties
Plot channel properties (soon)
Create channel group (soon)
Edit channel group (soon)
Save STUDY set to disk
Cancel
Set parameters for plotting ERPs -- pop_erppparams()
Time range in ms [low high]
Plot limits in uV [low high]
-6 6
Plot scalp map at latency [ms]
300 400
Display filter in Hz [high]
Plot conditions on the same panel
Plot groups on the same panel
Statistics
Parametric
Threshold
Compute condition statistics
Compute group statistics
Cancel
Help
Ok

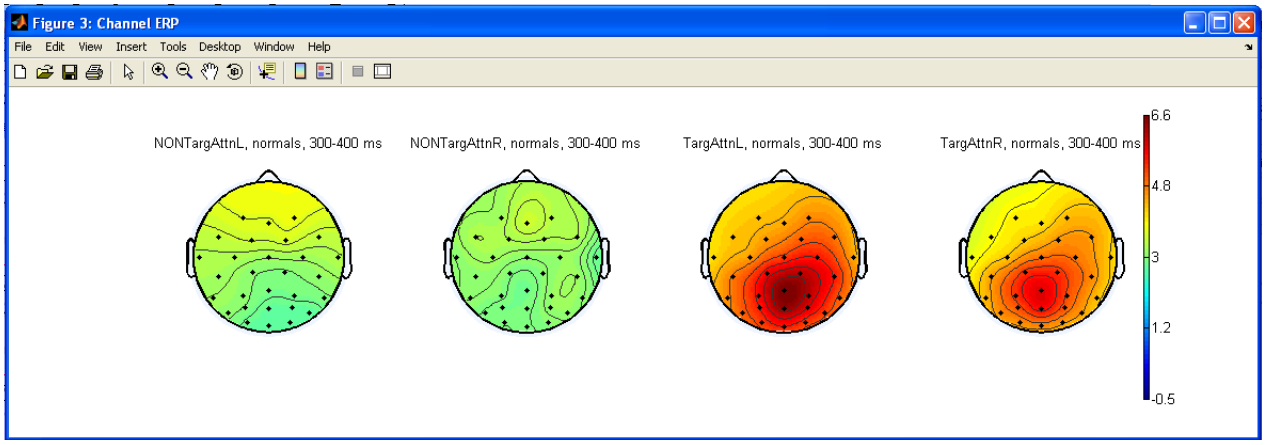
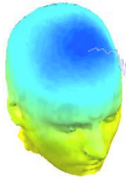
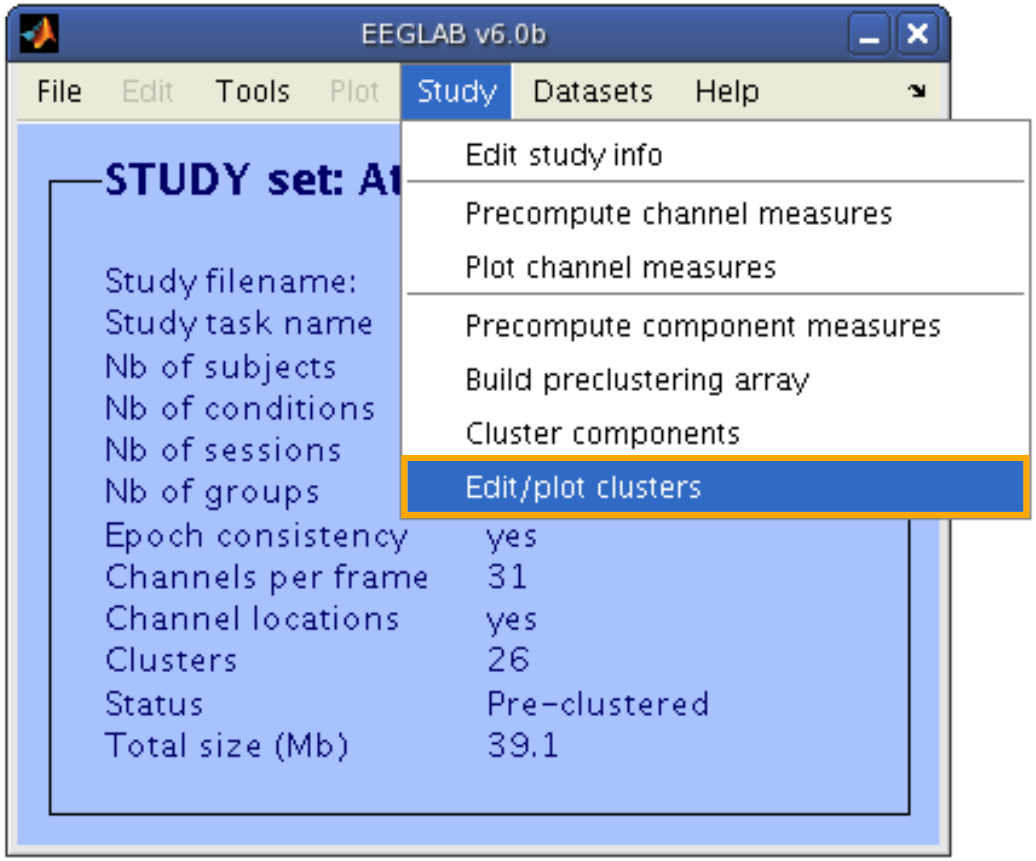


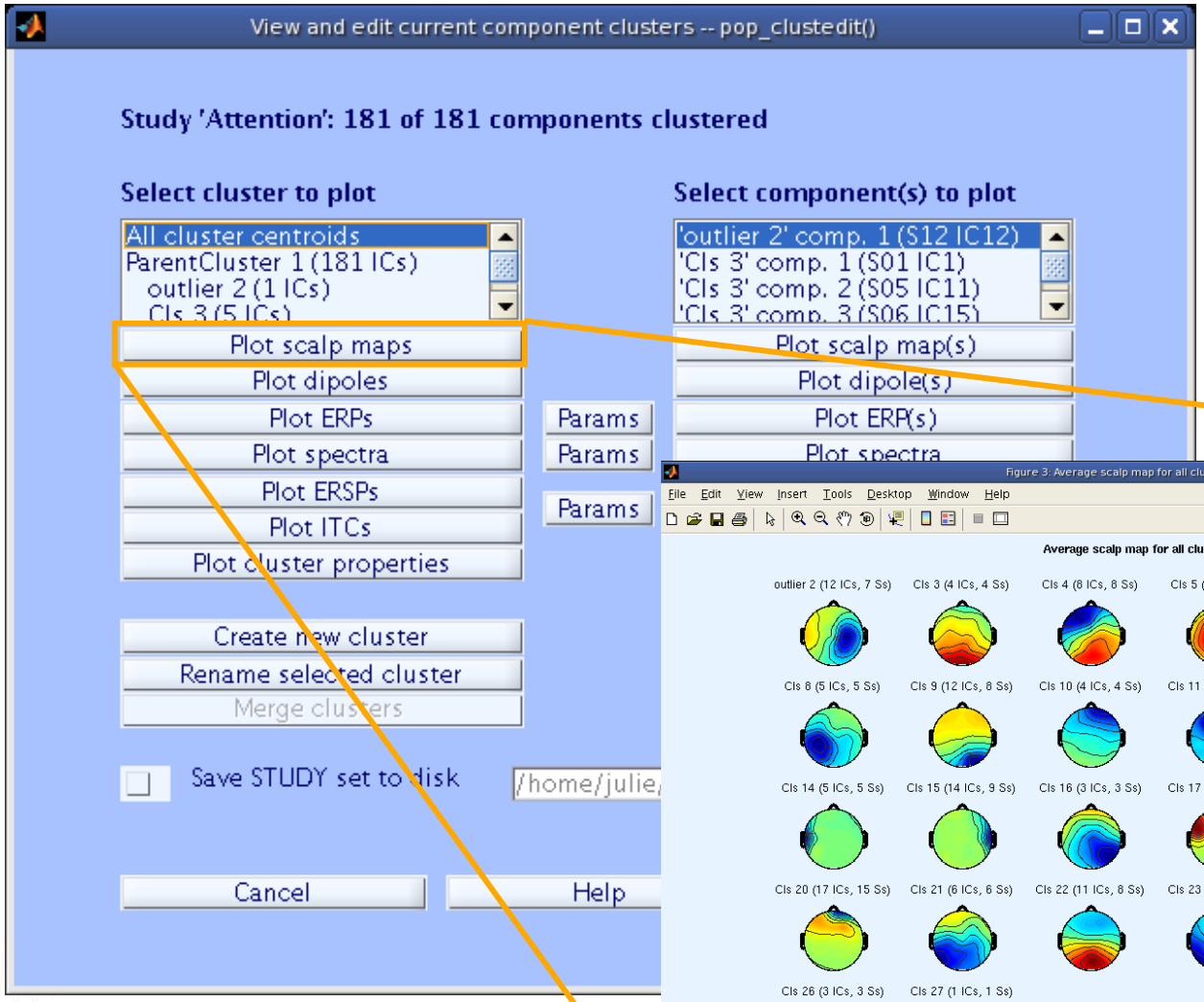
Figure 3: Channel ERP
File Edit View Insert Tools Desktop Window Help
NONTargAttnL, normals, 300-400 ms
NONTargAttnR, normals, 300-400 ms
TargAttnL, normals, 300-400 ms
TargAttnR, normals, 300-400 ms
6.6
4.8
3
1.2
-0.5

View and edit clusters



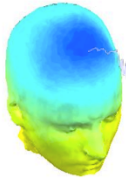


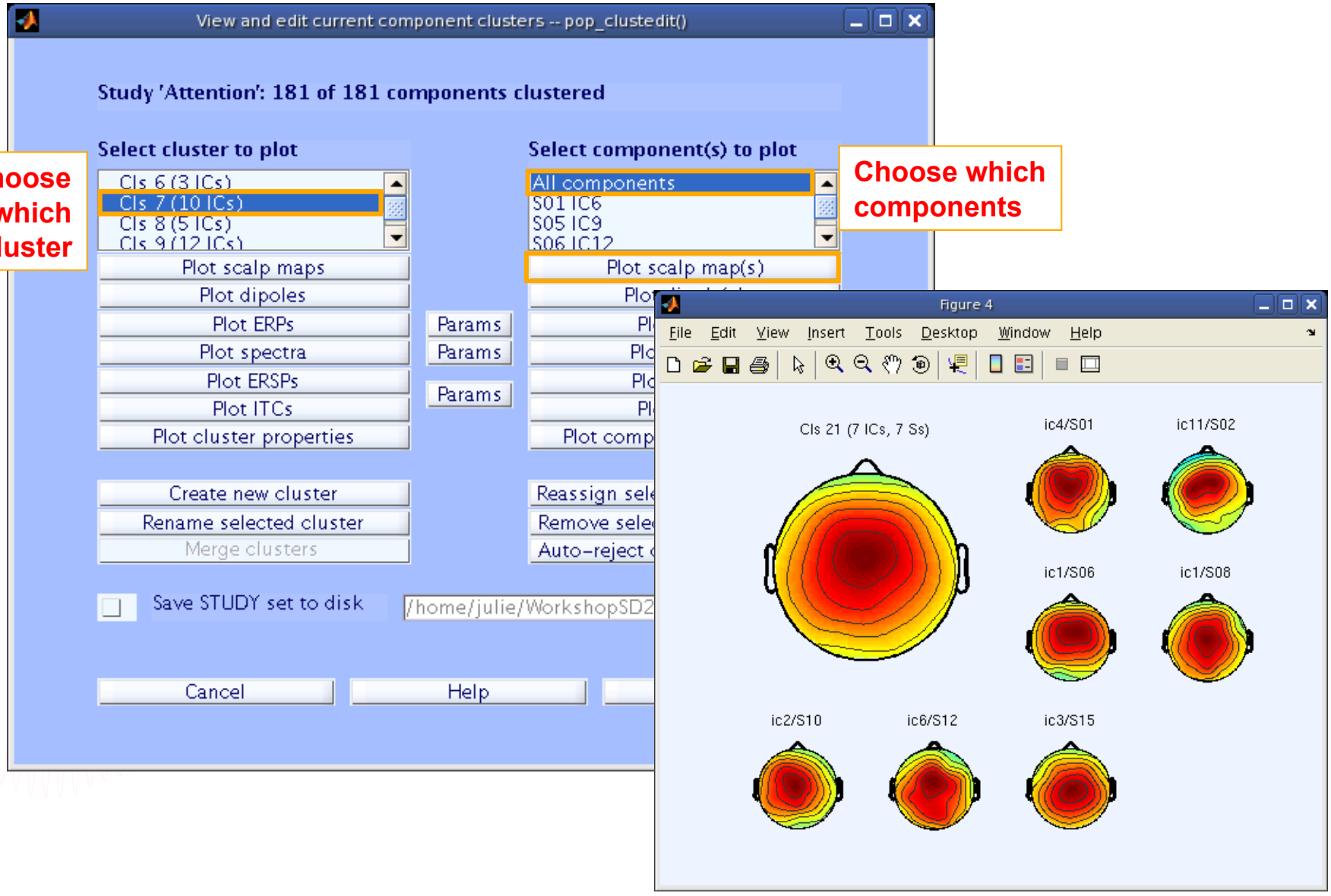
Plot cluster data



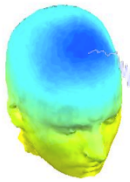
Plot mean scalp maps for easy reference

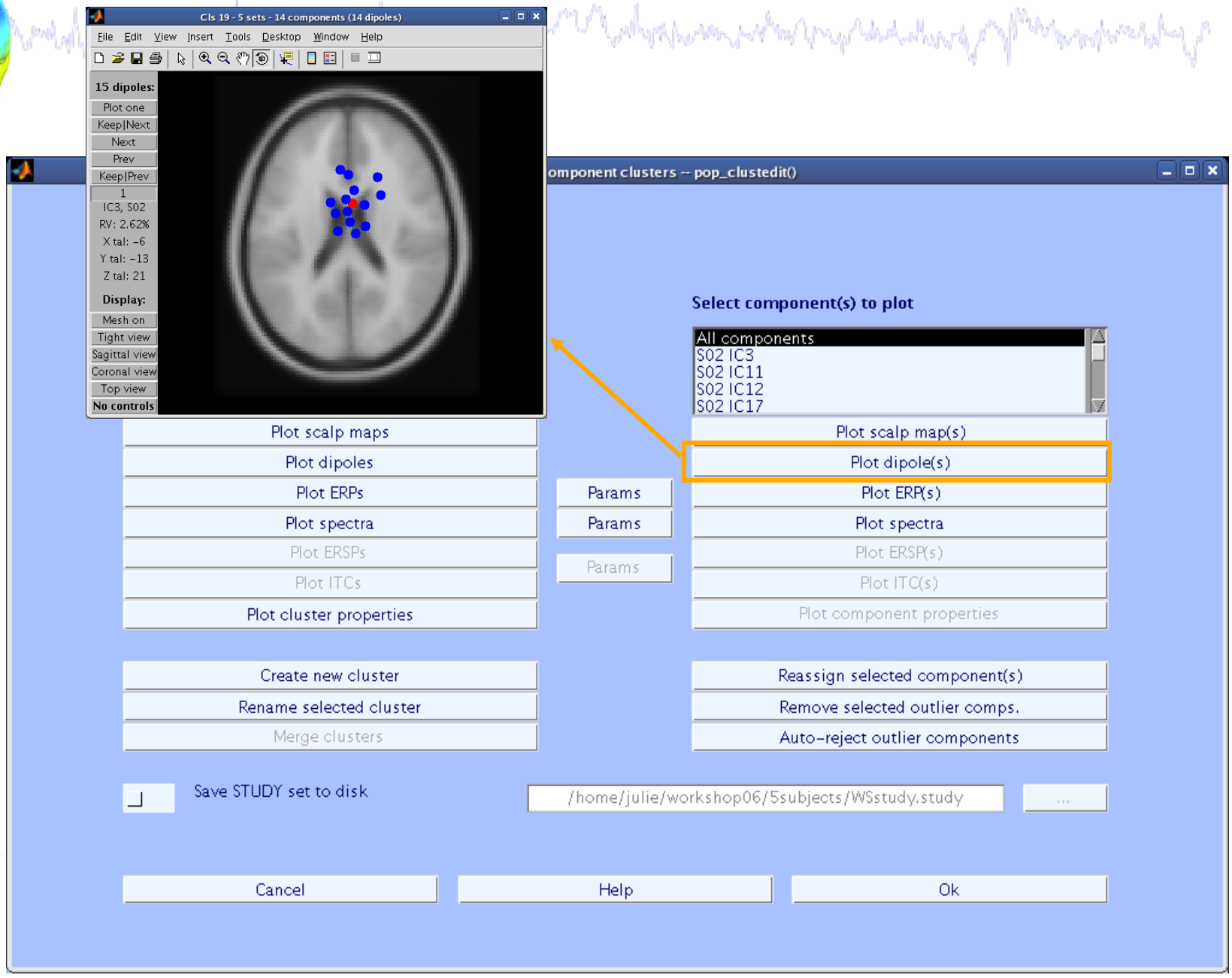
Plot cluster data



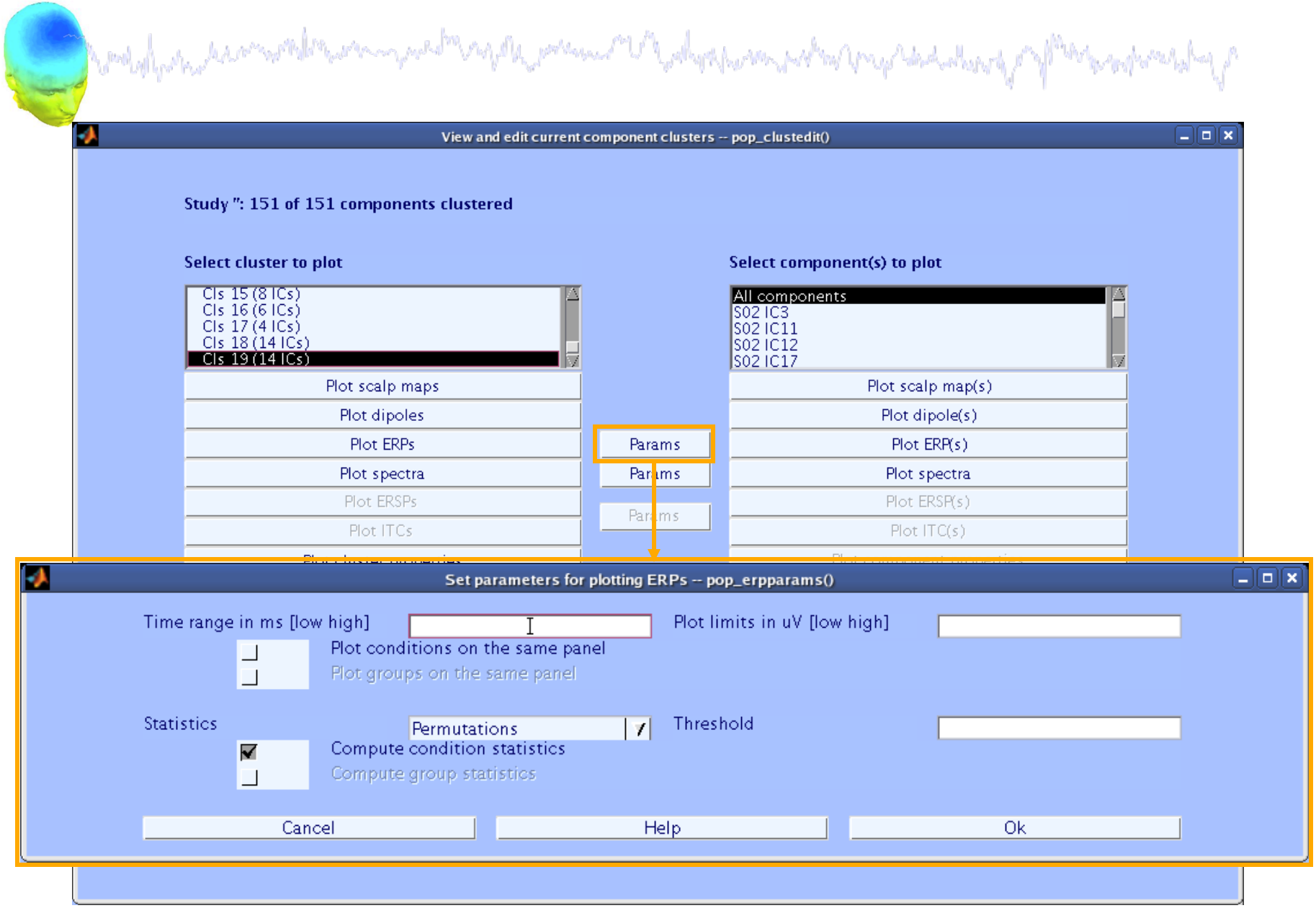


Plot cluster data

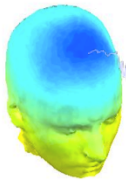


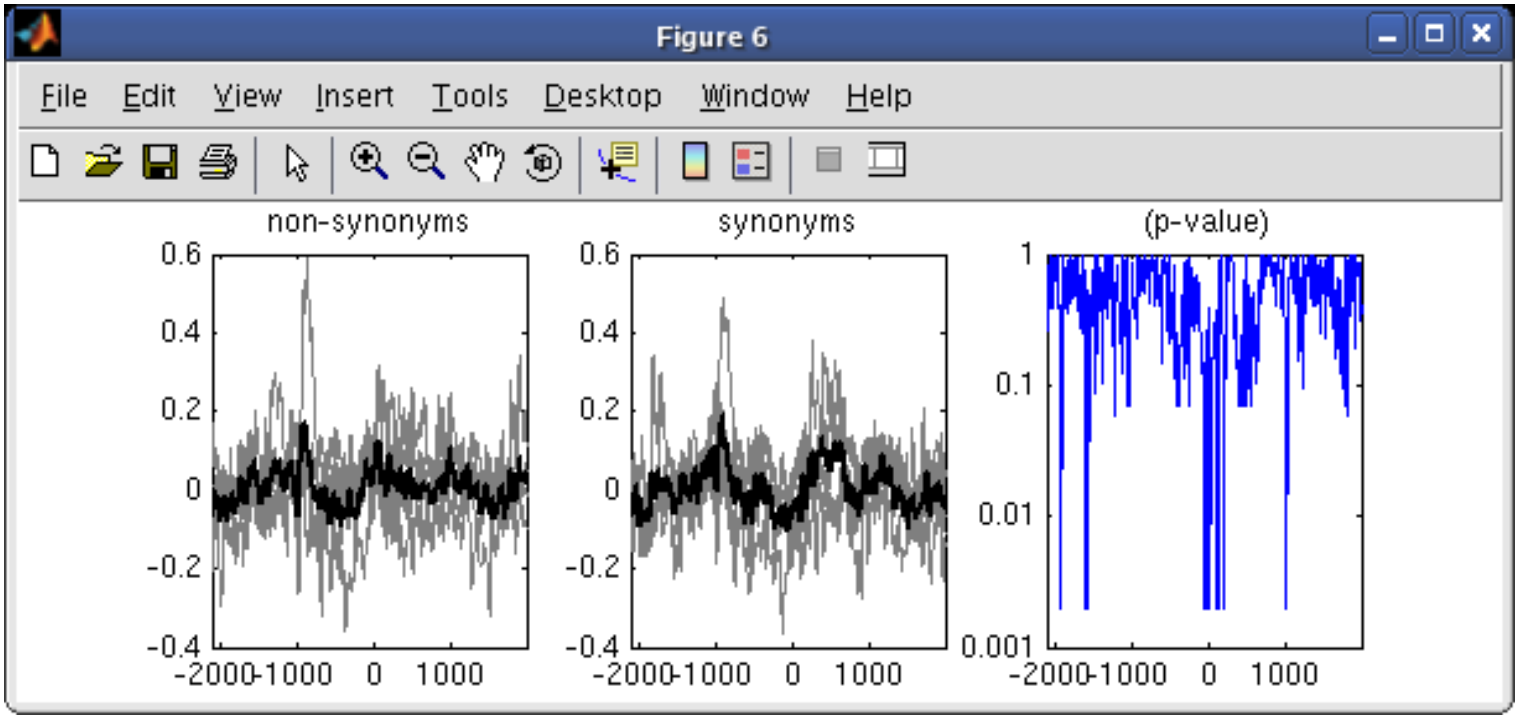


Plot cluster data

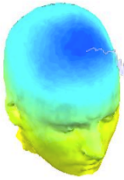


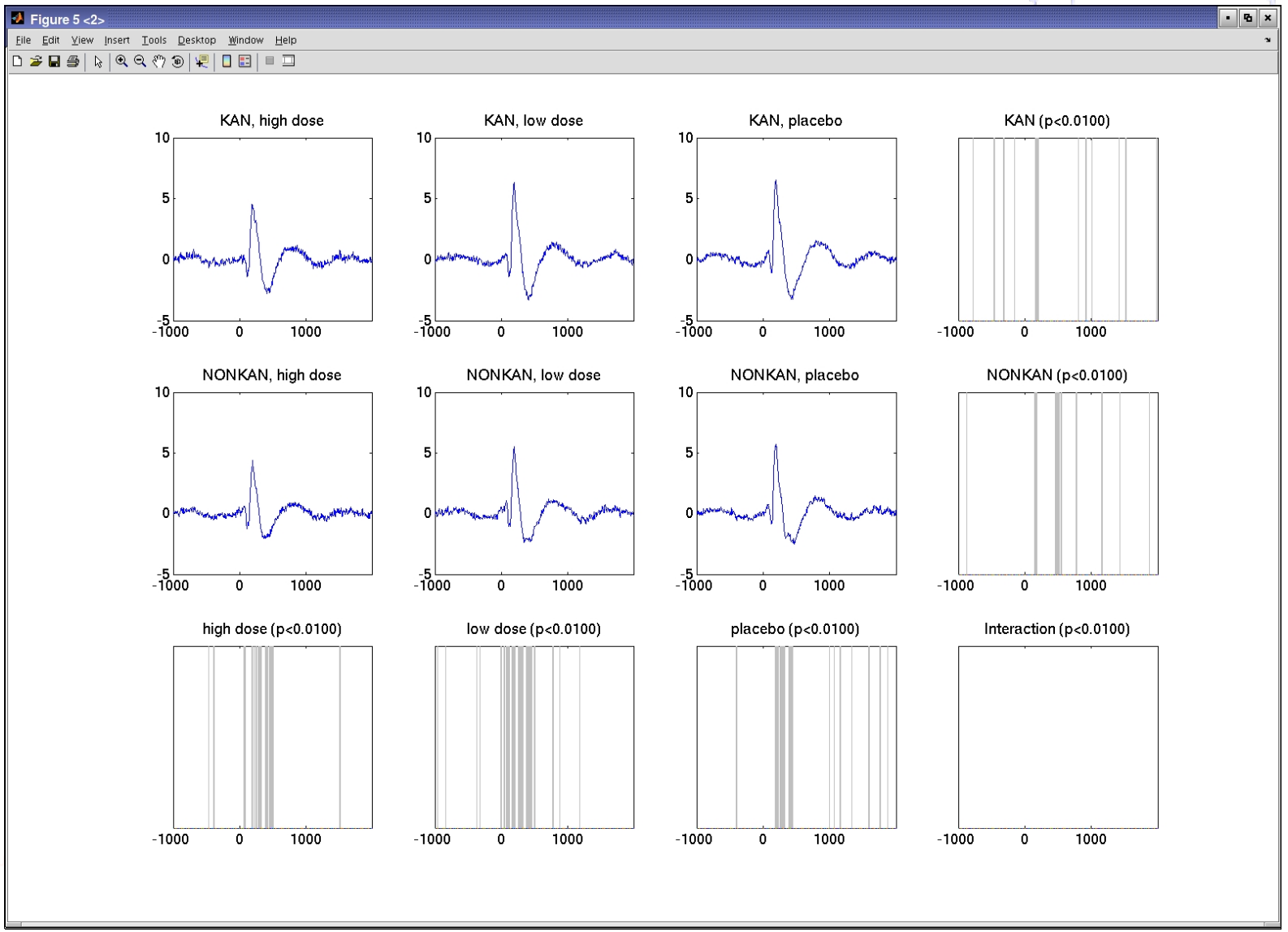
Plot cluster ERP



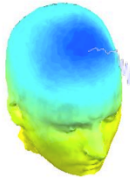


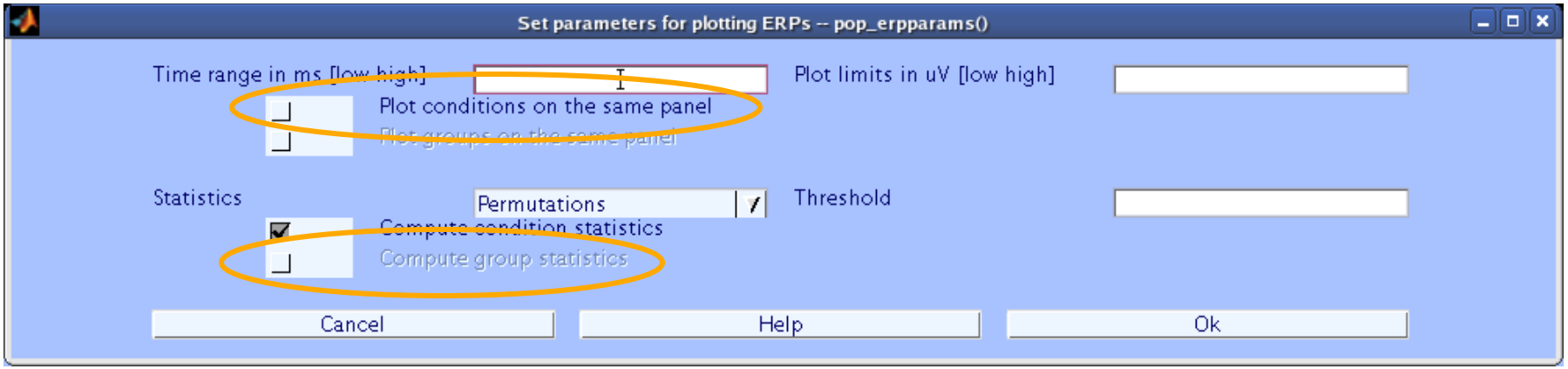
STUDY ERPs with p-value

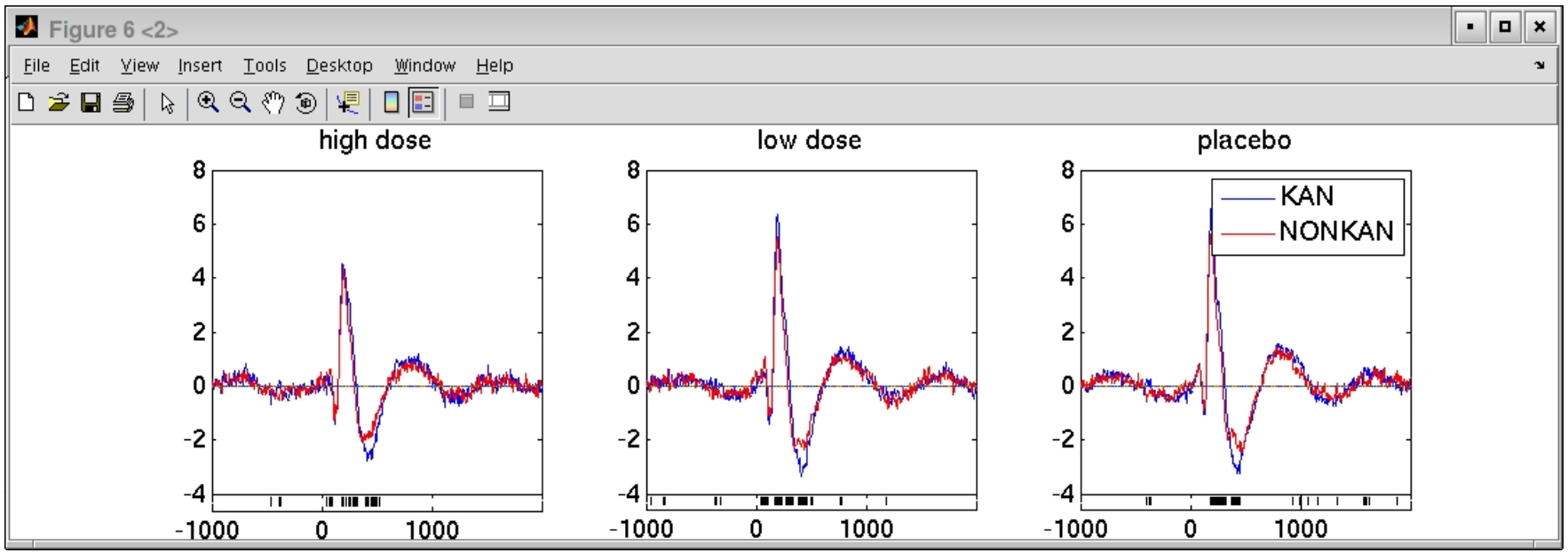




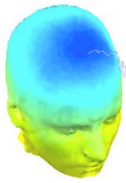
Other plotting options…

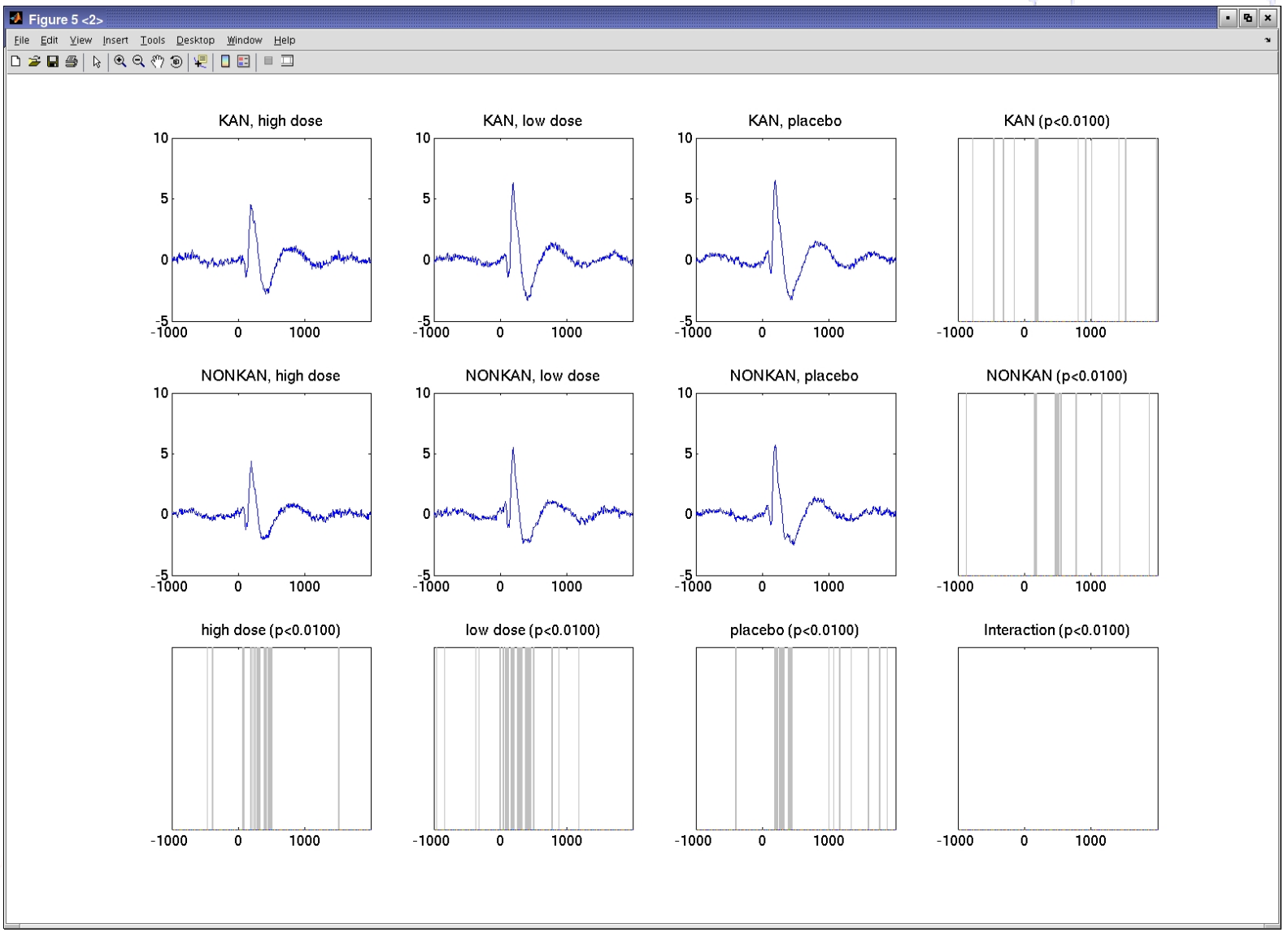




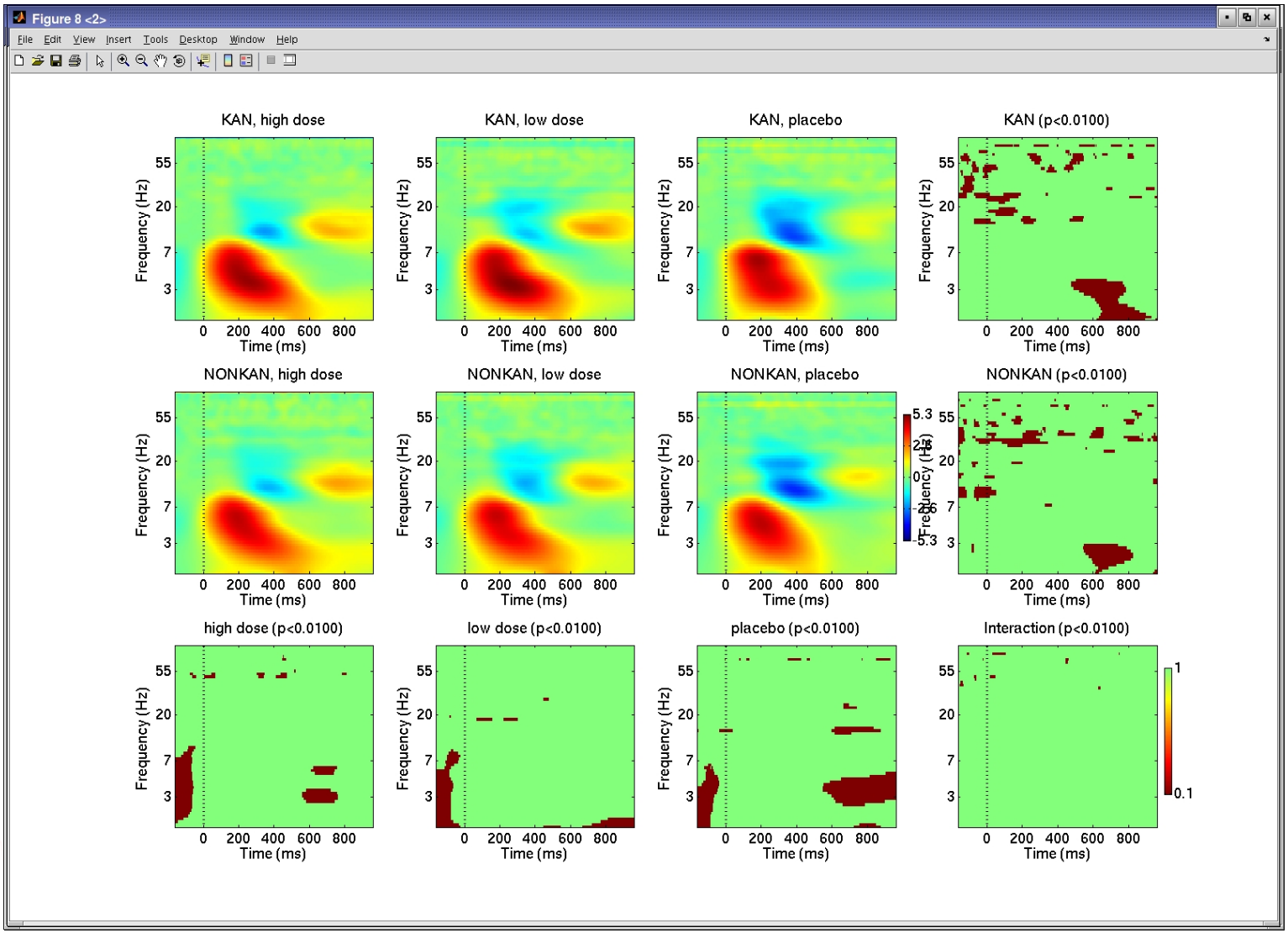


STUDY ERPs with threshold

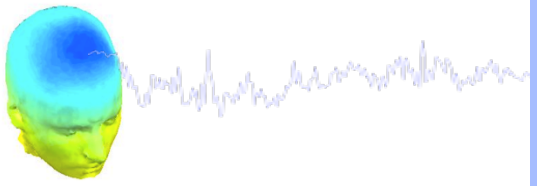




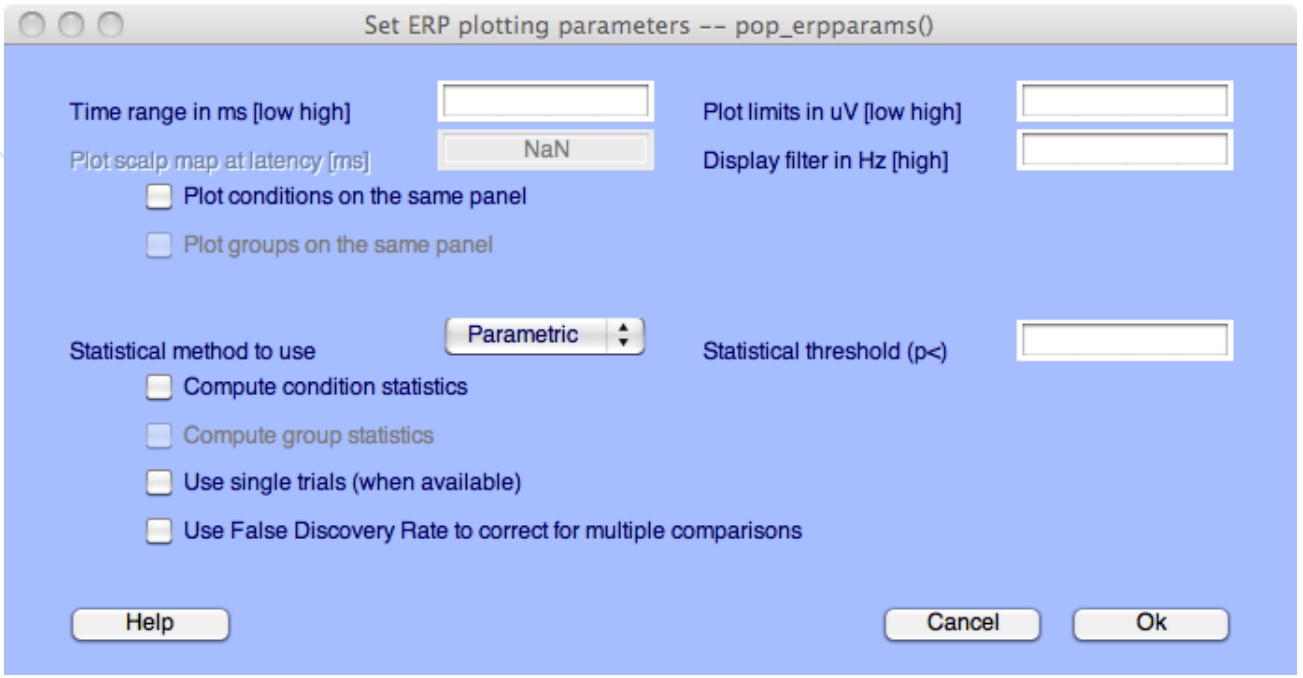
STUDY ERSPs with statistics



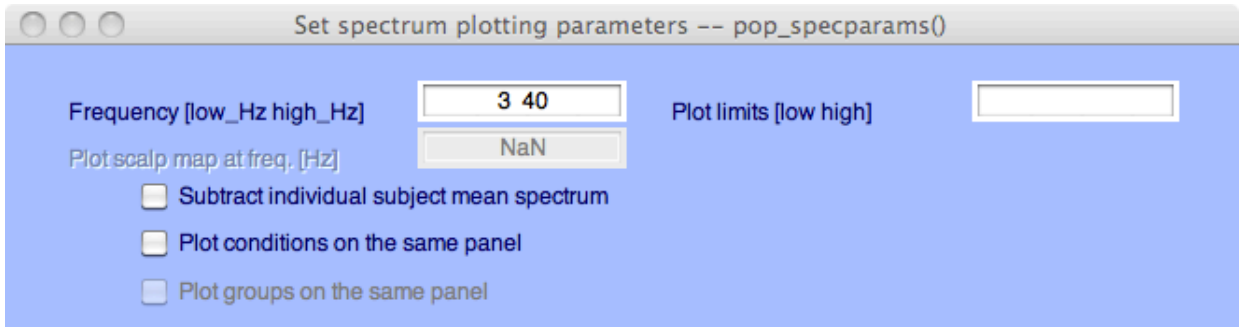
Parameters



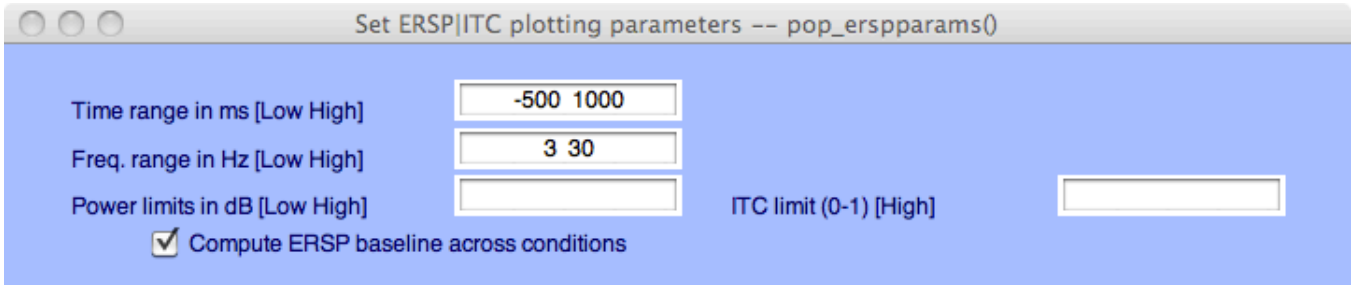
ERP

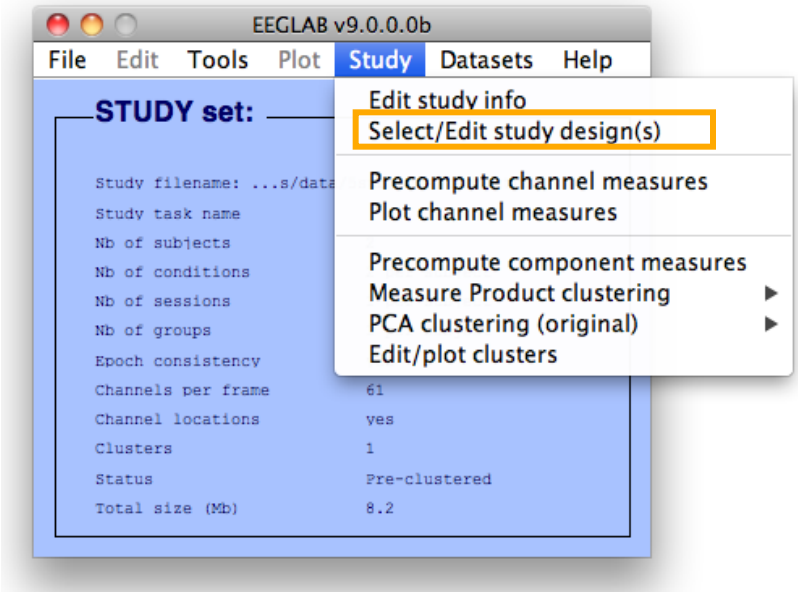


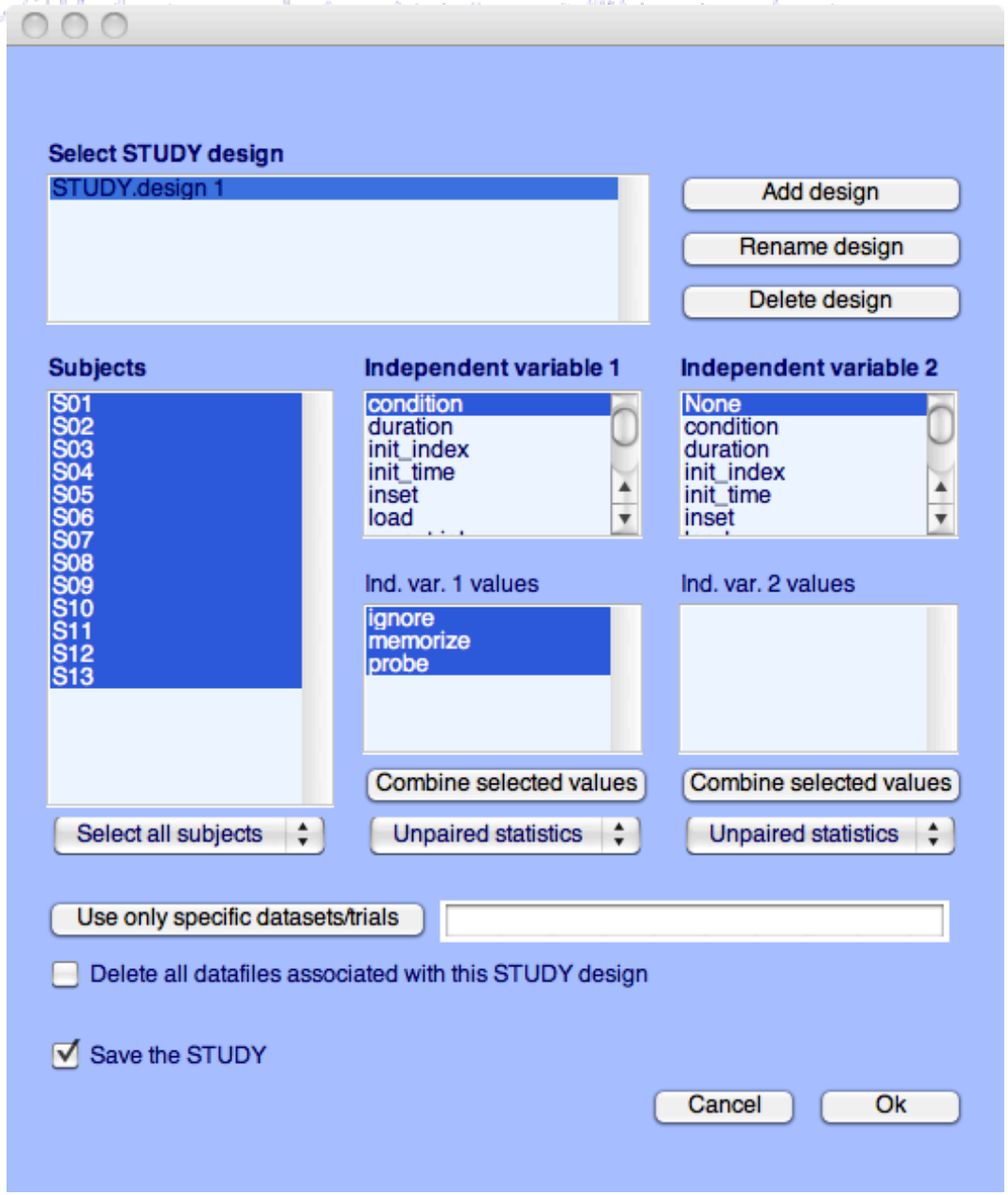
Spectrum



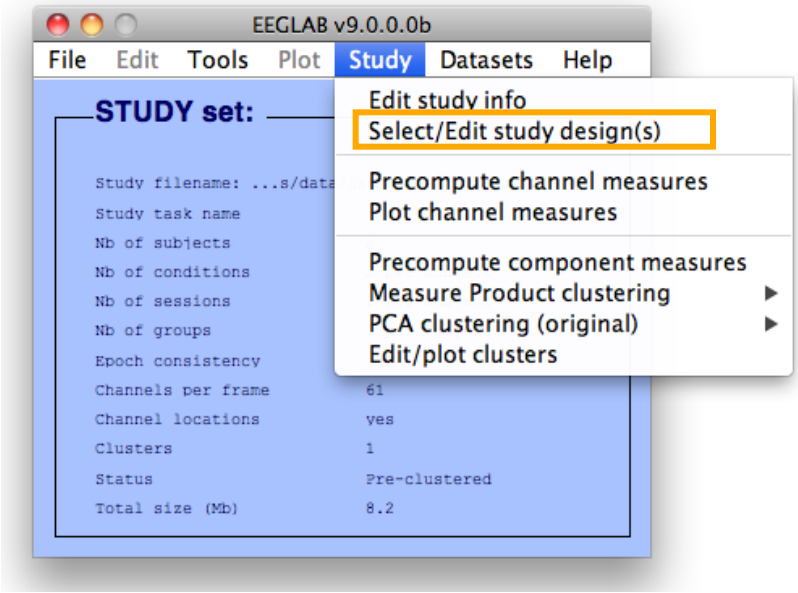
ERSP/ITC

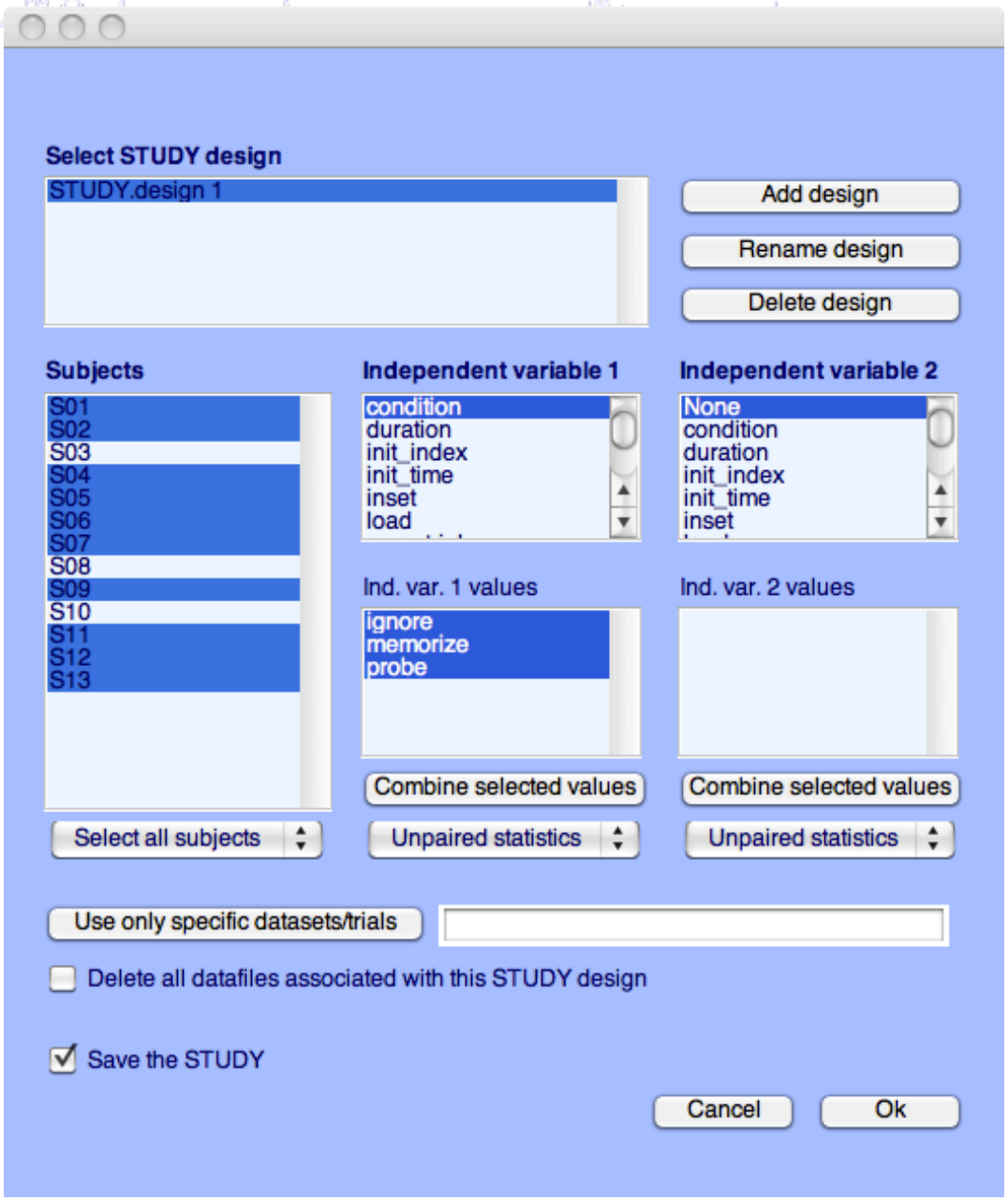



EEGLAB v9.0.0.0b
File Edit Tools Plot Study Datasets Help
STUDY set:
Study filename: ...s/data
Study task name
Nb of subjects
Nb of conditions
Nb of sessions
Nb of groups
Epoch consistency
Channels per frame 61
Channel locations yes
Clusters 1
Status Pre-clustered
Total size (Mb) 8.2
Edit study info
Select/Edit study design(s)
Precompute channel measures
Plot channel measures
Precompute component measures
Measure Product clustering
PCA clustering (original)
Edit/plot clusters

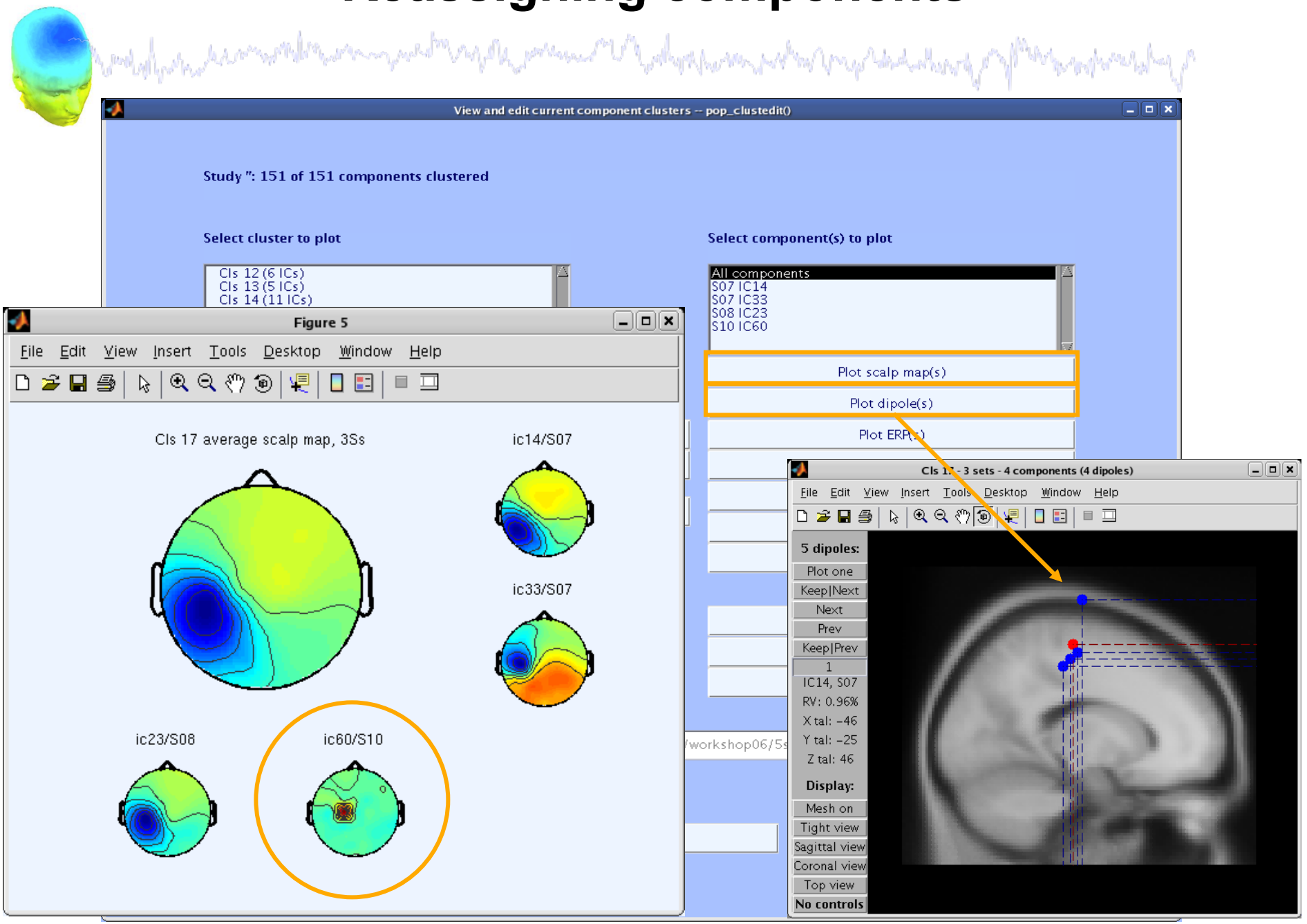

Select STUDY design
STUDY.design 1
Add design
Rename design
Delete design
Subjects
S01 S02 S03 S04 S05 S06 S07 S08 S09 S10 S11 S12 S13
Independent variable 1
condition duration init_index init_time inset load
Independent variable 2
None condition duration init_index init_time inset
Ind. var. 1 values
ignore memorize probe
Ind. var. 2 values
Combine selected values
Combine selected values
Select all subjects
Unpaired statistics
Unpaired statistics
Use only specific datasets/trials
Delete all datafiles associated with this STUDY design
Save the STUDY
Cancel
Ok

Select subjects

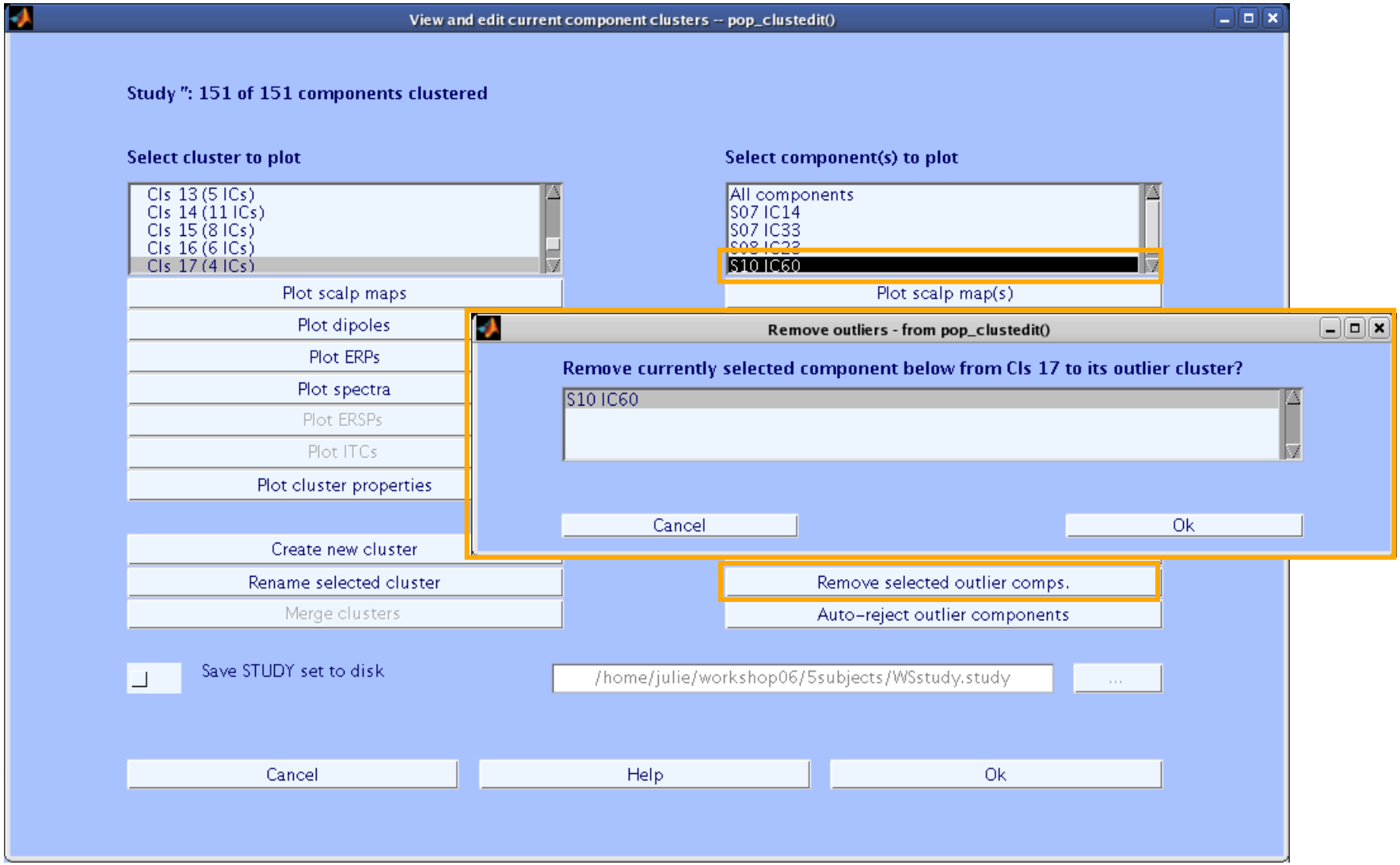




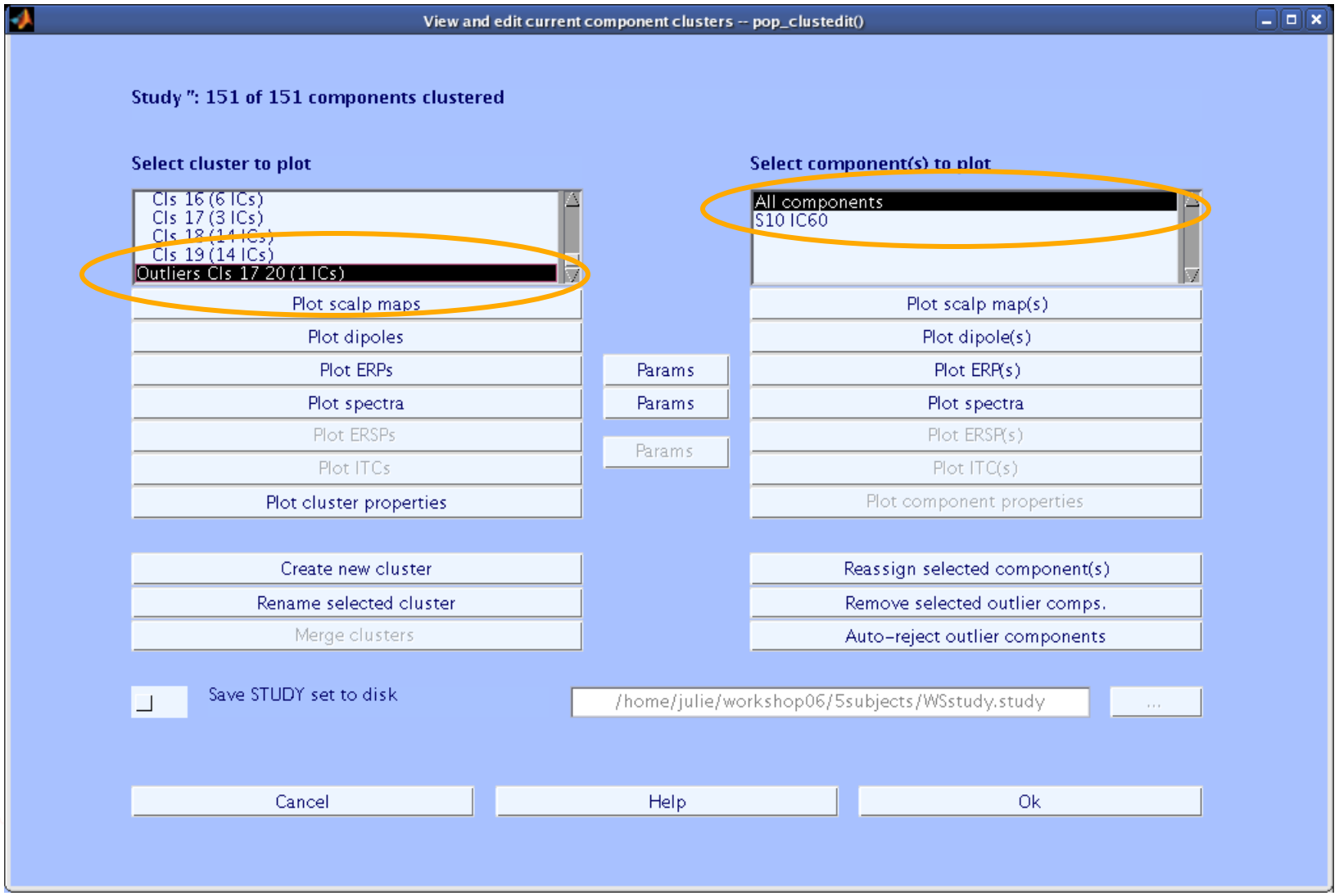
Reassigning components



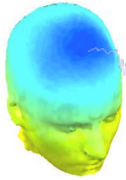
Reassigning components



Outlier cluster reassignment



Exercise



Suggestion:

Load stern.study in STUDY folder

From the GUI, compute ERP for data channels. Plot grand average ERP for all channels. Experiment with statistics.

Then move to the plotting cluster function. Plot ERSP for frontal midline theta cluster (cluster 19) and remove outliers by hand.

Build a STUDY design to compare letter with high memory load versus letter with low memory load. Recompute spectrum for components and compare the two conditions for the frontal midline cluster (cluster 19).