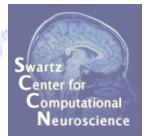
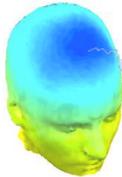


STUDY design and plotting overview



STEP 1

Build a STUDY

STEP 2

Build design(s)

STEP 3

Precompute the data

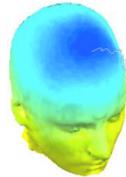
STEP 4

Plot the data

Exercise...



Memory options



EEGLAB

File Edit Tools Plot St

Import data
Import epoch info
Import event info
Export
Load existing dataset
Save current dataset(s)
Save current dataset as
Clear dataset(s)
Create study
Load existing study
Save current study
Save current study as
Clear study
Memory and other options
Save history ▾
Quit

Memory options - pop_editoptions()

STUDY options (set these checkboxes if you intend to work with studies)

If set, keep at most one dataset in memory. This allows processing hundreds of datasets within studies.
 .

If set, save not one but two files for each dataset (header and data). This allows faster data loading in studies.
 .

If set, write ICA activations to disk. This speeds up loading ICA components when dealing with studies.
 .

Memory options

If set, use single precision under Matlab 7.x. This saves RAM but can lead to rare numerical imprecisions.
 .

If set, use memory mapped array under Matlab 7.x. This may slow down some computation.
 .

ICA options

If set, precompute ICA activations. This requires more RAM but allows faster plotting of component activations.
 .

If set, scale ICA component activities to RMS (Root Mean Square) in microvolt (recommended).
 .

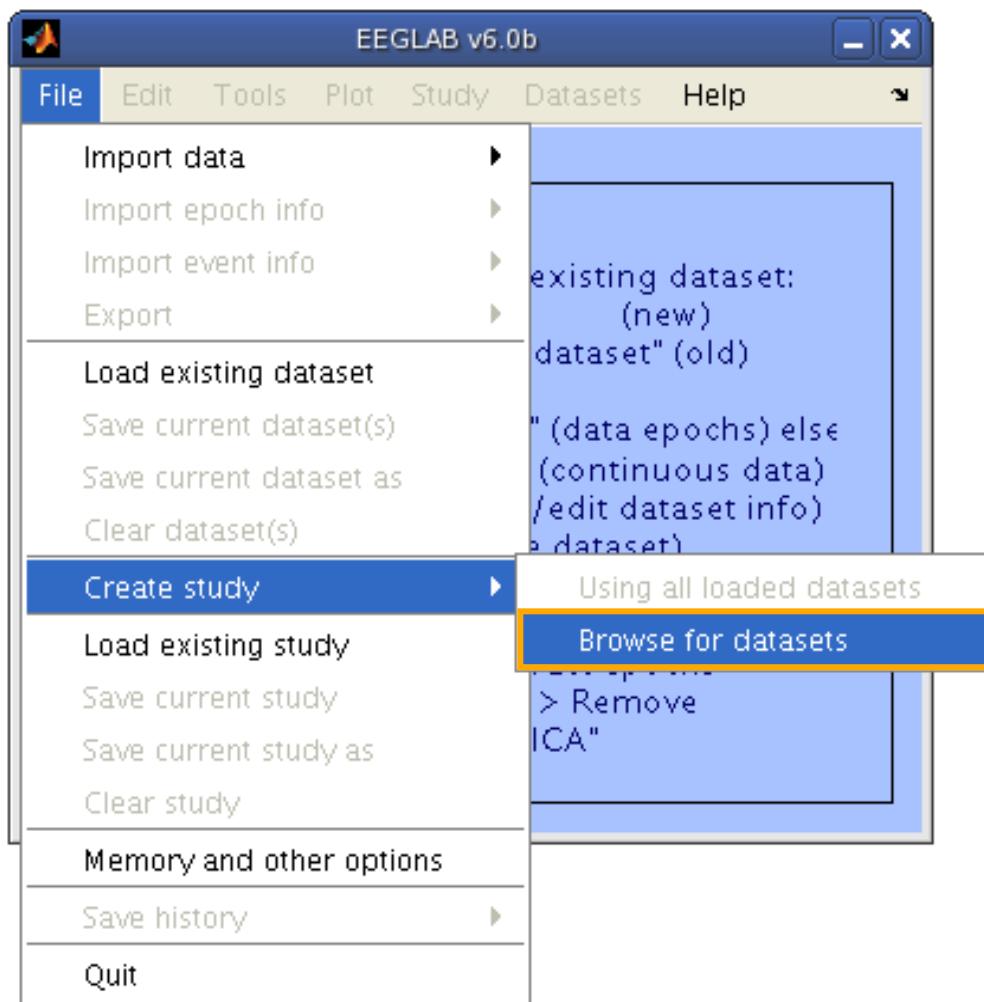
Folder options

If set, when browsing to open a new dataset assume the folder/directory of previous dataset.
 .

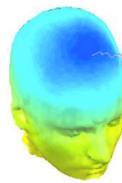
Option file: C:\Users\julie\Documents\MATLAB\functions\adminfunc\eeeg_options.m

Memory options should change
when using STUDY vs single dataset

Build a STUDY



Build a STUDY, cont'd



Create a new STUDY set -- pop_study()

Create a new STUDY set

STUDY set name:

STUDY set task name:

STUDY set notes:

dataset filename browse subject session condition group [Select by r.v.](#) [Clear](#) [Clear](#)

1	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
2	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
3	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
4	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
5	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
7	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
8	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
9	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
10	<input type="text"/>	...	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Important note: Removed datasets will not be saved before being deleted from EEGLAB memory

< Page 1 >

Update dataset info - datasets stored on disk will be overwritten (unset = Keep study info set)

Delete cluster information (to allow loading new datasets, set new components for clustering)

[Help](#)

Choose dataset to add to STUDY -- pop_study()

Look in: S01

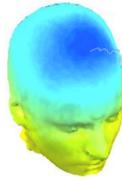
Name	Date modified	Type
Ignore.set	11/8/2009 7:06 PM	SET File
Memorize.set	11/8/2009 7:06 PM	SET File
Probe.set	11/12/2009 10:02 ...	SET File

Recent Places
Desktop
Libraries
Computer
Network

File name:

Files of type: (*.set, *.SET) [Open](#) [Cancel](#)

Edit dataset info



Create a new STUDY set -- pop_study()

Edit STUDY set information - remember to save changes

STUDY set name: Sternberg

STUDY set task name: Sternberg

STUDY set notes:

	dataset filename	browse	subject	session	condition	group	Select by r.v.
1	/Volumes/donnees/data/STU[...	S01		memorize		All comp. Clear
2	/Volumes/donnees/data/STU[...	S01		ignore		All comp. Clear
3	/Volumes/donnees/data/STU[...	S01		probe		All comp. Clear
4	/Volumes/donnees/data/STU[...	S02		memorize		All comp. Clear
5	/Volumes/donnees/data/STU[...	S02		ignore		All comp. Clear
6	/Volumes/donnees/data/STU[...	S02		probe		All comp. Clear
7	/Volumes/donnees/data/STU[...	S03		memorize		All comp. Clear
8	/Volumes/donnees/data/STU[...	S03		ignore		All comp. Clear
9	/Volumes/donnees/data/STU[...	S03		probe		All comp. Clear
10	/Volumes/donnees/data/STU[...	S04		memorize		All comp. Clear

Important note: Removed datasets will not be saved before being deleted from EEGLAB memory

< > Page 1

Dataset info (condition, group, ...) differs from study info. [set] = Overwrite dataset info.

Delete cluster information (to allow loading new datasets, set new components for clustering, etc.)

Help Cancel Ok

Experimental design



1x2 unpaired

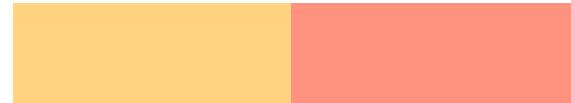
Patients Controls

Group A

Group B

1x2 paired

Stim A Stim B



2x2 unpaired

Patients

Controls

Old

Group A

Group B

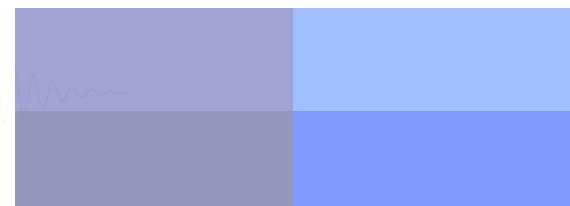
Young

Group C

Group D

2x2 paired

Stim A Stim B



2x2 paired & unpaired

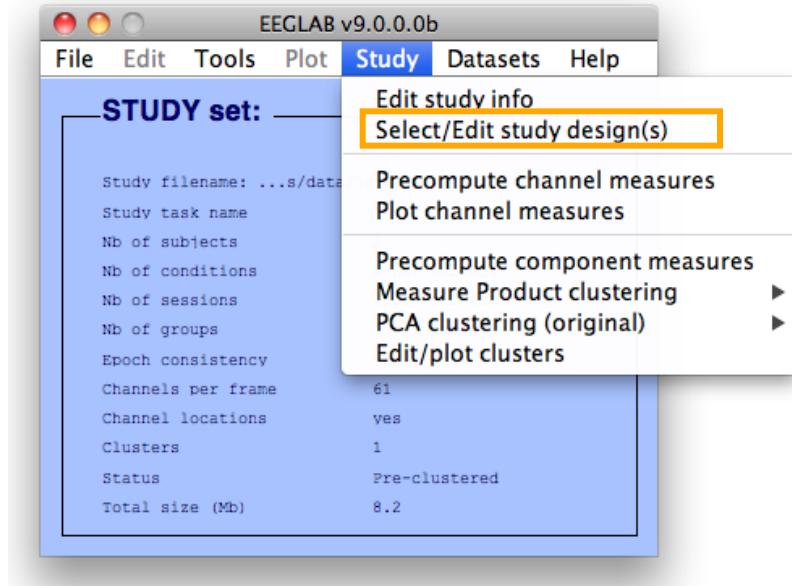
Patients

Controls

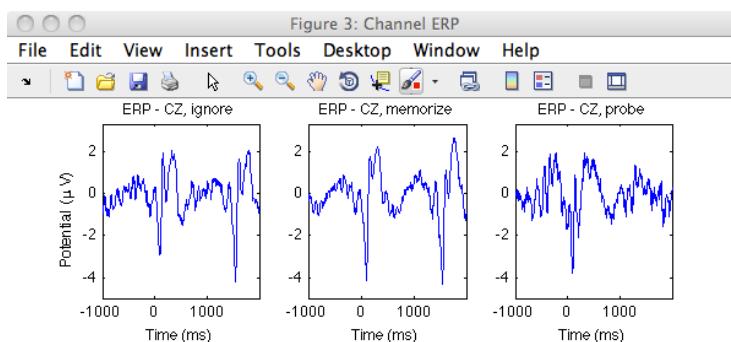
Drug A



Drug B



1x3 design



Create design

Edit STUDY design -- pop_studydesign()

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
Select all subjects
Paired statistics

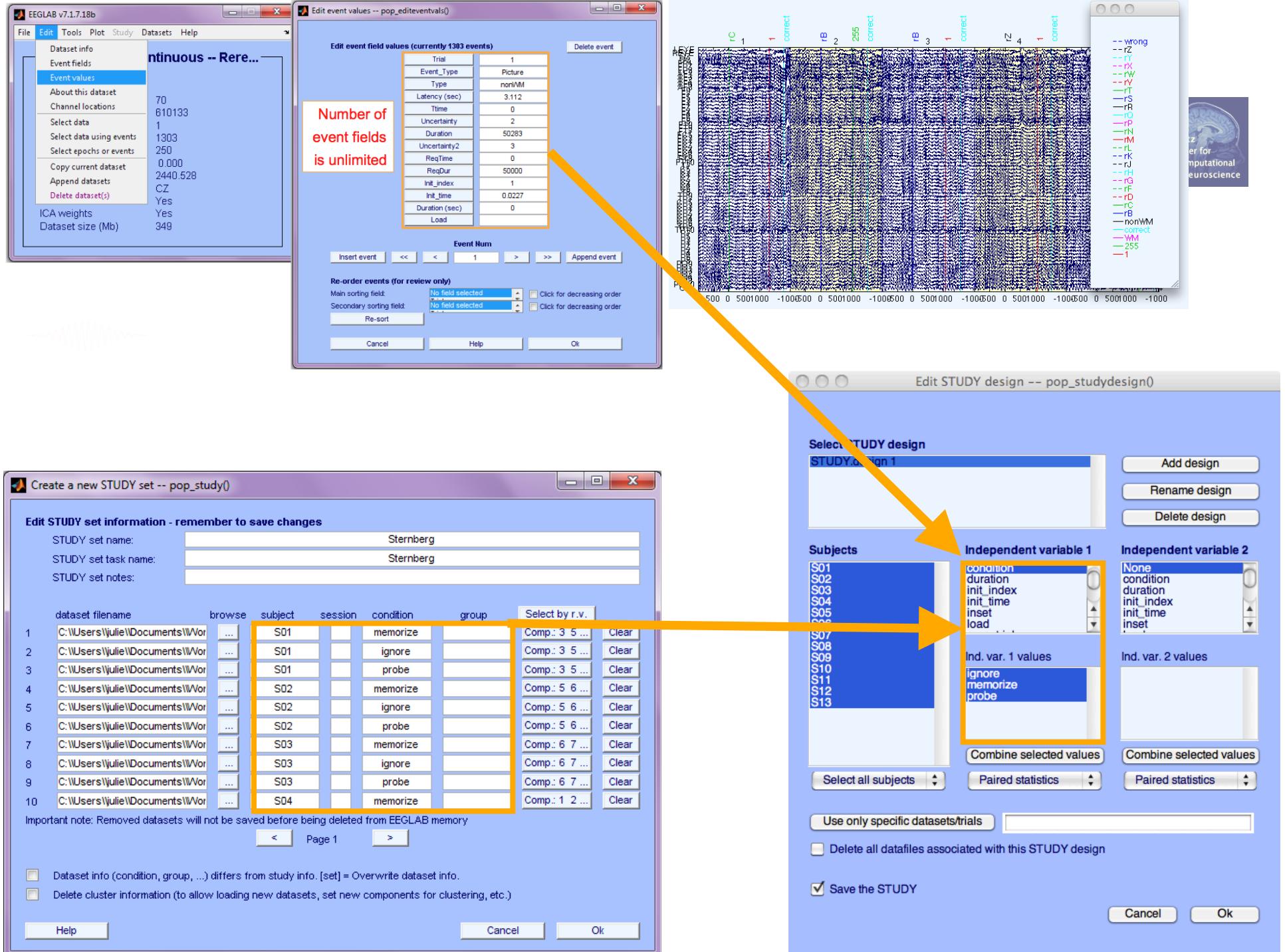
Combine selected values
Paired statistics

Use only specific datasets/trials

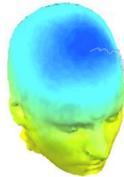
Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel Ok



Build a STUDY, alternative method



Create a new STUDY set -- pop_study()

Create a new STUDY set

STUDY set name:

STUDY set task name:

STUDY set notes:

dataset filename browse subject session condition group Select by r.v.

1	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
2	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
3	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
4	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
5	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
6	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
7	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
8	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
9	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>
10	<input type="text"/>	<input type="button" value="..."/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="button" value="Clear"/>

Important note: Removed datasets will not be saved before being deleted from EEGLAB memory

< Page 1 >

Update dataset info - datasets stored on disk will be overwritten (unset = Keep study info separate).
 Delete cluster information (to allow loading new datasets, set new components for clustering, etc.)

Help Cancel Ok

Choose dataset to add to STUDY -- pop_study()

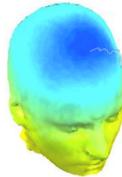
S01

Name	Date Modified
Memorize.icasp	Thursday, November 12, 2009 9:08 PM
Memorize.icatopo	Monday, November 16, 2009 9:43 PM
Memorize.set	Sunday, November 8, 2009 8:06 AM
Probe.daterp	Monday, June 14, 2010 11:45 PM
Probe.fdt	Thursday, November 12, 2009 11:02 AM
Probe.icaerp	Monday, November 16, 2009 10:01 PM
Probe.icaersp	Tuesday, November 17, 2009 12:05 PM
Probe.icaltc	Tuesday, November 17, 2009 12:05 PM
Probe.icasp	Thursday, November 12, 2009 9:09 PM
Probe.icatopo	Monday, November 16, 2009 9:44 PM
Probe.set	Thursday, November 12, 2009 11:02 AM
S01.fdt	Tuesday, November 9, 2010 12:05 PM
S01.set	Tuesday, November 9, 2010 12:05 PM

File Format: (*.set, *.SET)

Cancel Open

Edit dataset info



Create a new STUDY set -- pop_study()

Edit STUDY set information - remember to save changes

STUDY set name:	Sternberg					
STUDY set task name:	Sternberg					
STUDY set notes:						

	dataset filename	browse	subject	session	condition	group	Select by r.v.
1	/Volumes/donnees/data/STUD	...	S01				Comp.: 1 2 ... Clear
2	/Volumes/donnees/data/STUD	...	S02				Comp.: 1 2 ... Clear
3	/Volumes/donnees/data/STUD	...	S03				Comp.: 1 2 ... Clear
4	/Volumes/donnees/data/STUD	...	S04				Comp.: 1 2 ... Clear
5	/Volumes/donnees/data/STUD	...	S05				Comp.: 1 2 ... Clear
6	/Volumes/donnees/data/STUD	...	S06				Comp.: 1 2 ... Clear
7	/Volumes/donnees/data/STUD	...	S07				Comp.: 1 2 ... Clear
8	/Volumes/donnees/data/STUD	...	S08				Comp.: 1 2 ... Clear
9	/Volumes/donnees/data/STUD	...	S09				Comp.: 1 2 ... Clear
10	/Volumes/donnees/data/STUD	...	S10				Comp.: 1 2 ... Clear

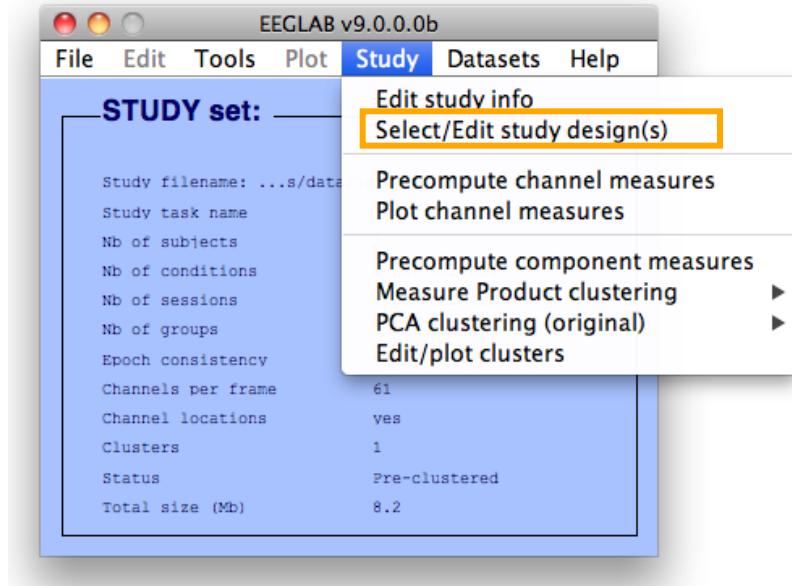
Important note: Removed datasets will not be saved before being deleted from EEGLAB memory

< Page 1 >

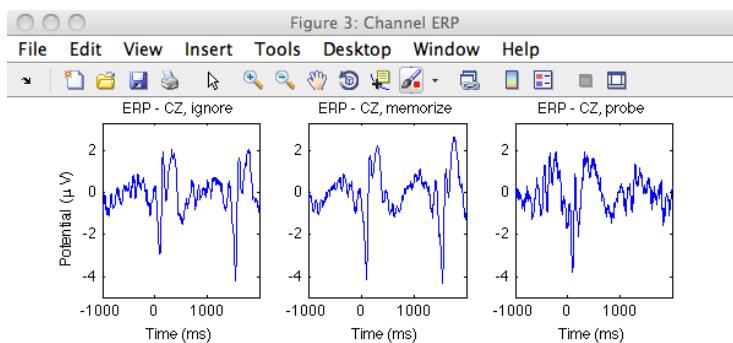
Update dataset info - datasets stored on disk will be overwritten (unset = Keep study info separate).
 Delete cluster information (to allow loading new datasets, set new components for clustering, etc.)

Help Cancel Ok





1x3 design



Create design

Edit STUDY design -- pop_studydesign()

Select STUDY design
Ignore vs. Memorize vs. Probe

Add design
Rename design
Delete design

Subjects: S01, S02, S03, S04, S05, S06, S07, S08, S09, S10, S11, S12, S13

Independent variable 1: stimtype (highlighted)
stimulus
ttime
type
uncertainty1
uncertainty2

Independent variable 2: None (highlighted)
duration
init_index
init_time
inset
load

Ind. var. 1 values: Ignore, Memorize, Probe

Ind. var. 2 values:

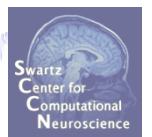
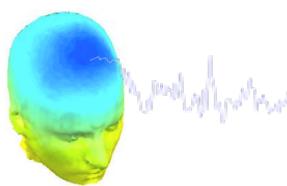
Combine selected values
Select all subjects
Paired statistics
Combine selected values
Paired statistics

Use only specific datasets/trials:

Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel Ok



Edit STUDY design -- pop_studydesign()

Select STUDY design

Audio versus light all subjects

- All stimulus type - non dual subjects only
- Blank versus other stimulus type - non dual subjects only
- Audio preceeded by different stimulus types
- Audio versus ligh accross sessions - non dual subjects only
- Audio versus light accross presentation - non dual subjects only

Add design Rename design Delete design

Subjects	Independent variable 1	Independent variable 2
c1 c2 c3 c4 c5 c6 c7 c8 nd1 nd2 nd3 nd4 nd5 nd6 nd7 nd8	None group stimulusType presentation session prevevent	None group stimulusType presentation session prevevent

Ind. var. 1 values

audio
blank
both
light
audio - light

Ind. var. 2 values

control
nondual

Combine selected values Combine selected values

Select all subjects Unpaired statistics Unpaired statistics

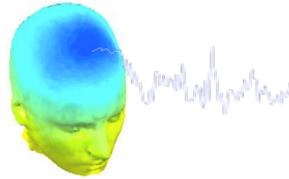
Use only specific datasets/trials

Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel Ok

Edit STUDY design -- pop_studydesign()



Select STUDY design

- Audio versus light all subjects
- All stimulus type - non dual subjects only**
- Blank versus other stimulus type - non dual subjects only
- Audio preceeded by different stimulus types
- Audio versus ligh accross sessions - non dual subjects only
- Audio versus light accross presentation - non dual subjects only

Add design

Rename design

Delete design

Subjects

- c1
- c2
- c3
- c4
- c5
- c6
- c7
- c8
- nd1**
- nd2
- nd3
- nd4
- nd5
- nd6
- nd7
- nd8

Select all subjects

Independent variable 1

- None
- group
- stimulusType**
- presentation
- session
- prevevent

Ind. var. 1 values

- audio
- blank
- both
- light**
- audio - light

Combine selected values

Unpaired statistics

Independent variable 2

- None
- group
- stimulusType
- presentation
- session
- prevevent

Ind. var. 2 values

Combine selected values

Unpaired statistics

Use only specific datasets/trials

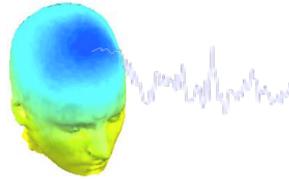
Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel

Ok

Edit STUDY design -- pop_studydesign()



Select STUDY design

- Audio versus light all subjects
- All stimulus type - non dual subjects only
- Blank versus other stimulus type - non dual subjects only**
- Audio preceeded by different stimulus types
- Audio versus ligh accross sessions - non dual subjects only
- Audio versus light accross presentation - non dual subjects only

Add design

Rename design

Delete design

Subjects

- c1
- c2
- c3
- c4
- c5
- c6
- c7
- c8
- nd1**
- nd2
- nd3
- nd4
- nd5
- nd6
- nd7
- nd8

Select all subjects

Independent variable 1

- None
- group
- stimulusType**
- presentation
- session
- prevevent

Ind. var. 1 values

- audio
- blank**
- both
- light
- audio - light**

Combine selected values

Unpaired statistics

Independent variable 2

- None
- group
- stimulusType
- presentation
- session
- prevevent

Ind. var. 2 values

Combine selected values

Unpaired statistics

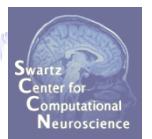
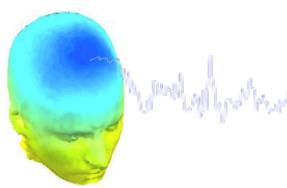
Use only specific datasets/trials

Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel

Ok



Edit STUDY design -- pop_studydesign()

Select STUDY design

- Audio versus light all subjects
- All stimulus type - non dual subjects only
- Blank versus other stimulus type - non dual subjects only
- Audio preceeded by different stimulus types**
- Audio versus ligh accross sessions - non dual subjects only
- Audio versus light accross presentation - non dual subjects only

Add design **Rename design** **Delete design**

Subjects	Independent variable 1	Independent variable 2
c1 c2 c3 c4 c5 c6 c7 c8 nd1 nd2 nd3 nd4 nd5 nd6 nd7 nd8	None group stimulusType presentation session prevevent	None group stimulusType presentation session prevevent
	Ind. var. 1 values	Ind. var. 2 values
	audio blank both light	
	Combine selected values	Combine selected values
Select all subjects	Unpaired statistics	Unpaired statistics

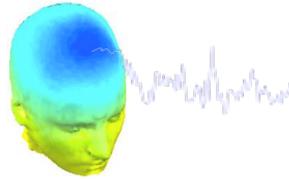
Use only specific datasets/trials 'stimulusType','{'audio'}

Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel **Ok**

Edit STUDY design -- pop_studydesign()



Select STUDY design

- Audio versus light all subjects
- All stimulus type - non dual subjects only
- Blank versus other stimulus type - non dual subjects only
- Audio preceeded by different stimulus types
- Audio versus ligh accross sessions - non dual subjects only**
- Audio versus light accross presentation - non dual subjects only

Add design

Rename design

Delete design

Subjects

c1
c2
c3
c4
c5
c6
c7
c8
nd1
nd2
nd3
nd4
nd5
nd6
nd7
nd8

Select all subjects

Independent variable 1

None
group
stimulusType
presentation
session
prevevent

Ind. var. 1 values

audio
blank
both
light
audio - light

Combine selected values

Unpaired statistics

Independent variable 2

None
group
stimulusType
presentation
session
prevevent

Ind. var. 2 values

1
2

Combine selected values

Unpaired statistics

Use only specific datasets/trials

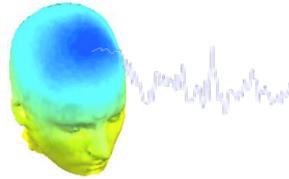
Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel

Ok

Edit STUDY design -- pop_studydesign()



Select STUDY design

- Audio versus light all subjects
- All stimulus type - non dual subjects only
- Blank versus other stimulus type - non dual subjects only
- Audio preceeded by different stimulus types
- Audio versus ligh accross sessions - non dual subjects only
- Audio versus light accross presentation - non dual subjects only**

Add design

Rename design

Delete design

Subjects

- c1
- c2
- c3
- c4
- c5
- c6
- c7
- c8
- nd1**
- nd2
- nd3
- nd4
- nd5
- nd6
- nd7
- nd8

Select all subjects

Independent variable 1

- None
- group
- stimulusType**
- presentation
- session
- prevevent

Ind. var. 1 values

- audio
- blank
- both
- light**
- audio - light

Combine selected values

Unpaired statistics

Independent variable 2

- None
- group
- stimulusType
- presentation**
- session
- prevevent

Ind. var. 2 values

- evoked
- spontaneous

Combine selected values

Unpaired statistics

Use only specific datasets/trials

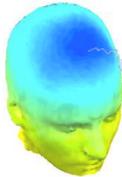
Delete all datafiles associated with this STUDY design

Save the STUDY

Cancel

Ok

STUDY design and plotting overview



STEP 1

Build a STUDY

STEP 2

Build design(s)

STEP 3

Precompute the data

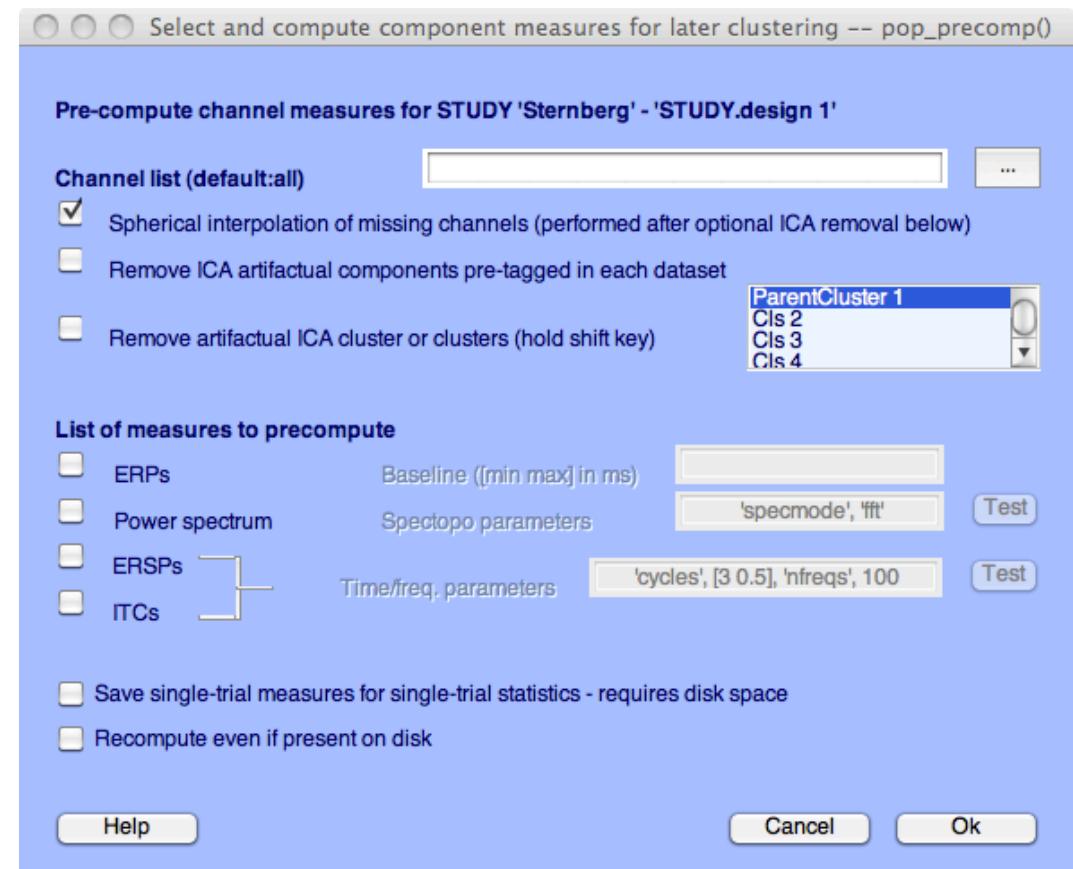
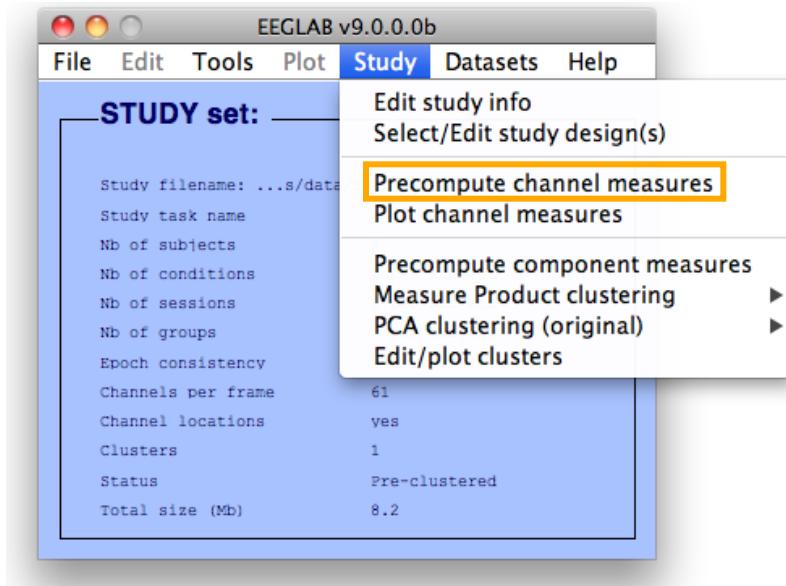
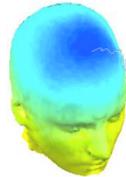
STEP 4

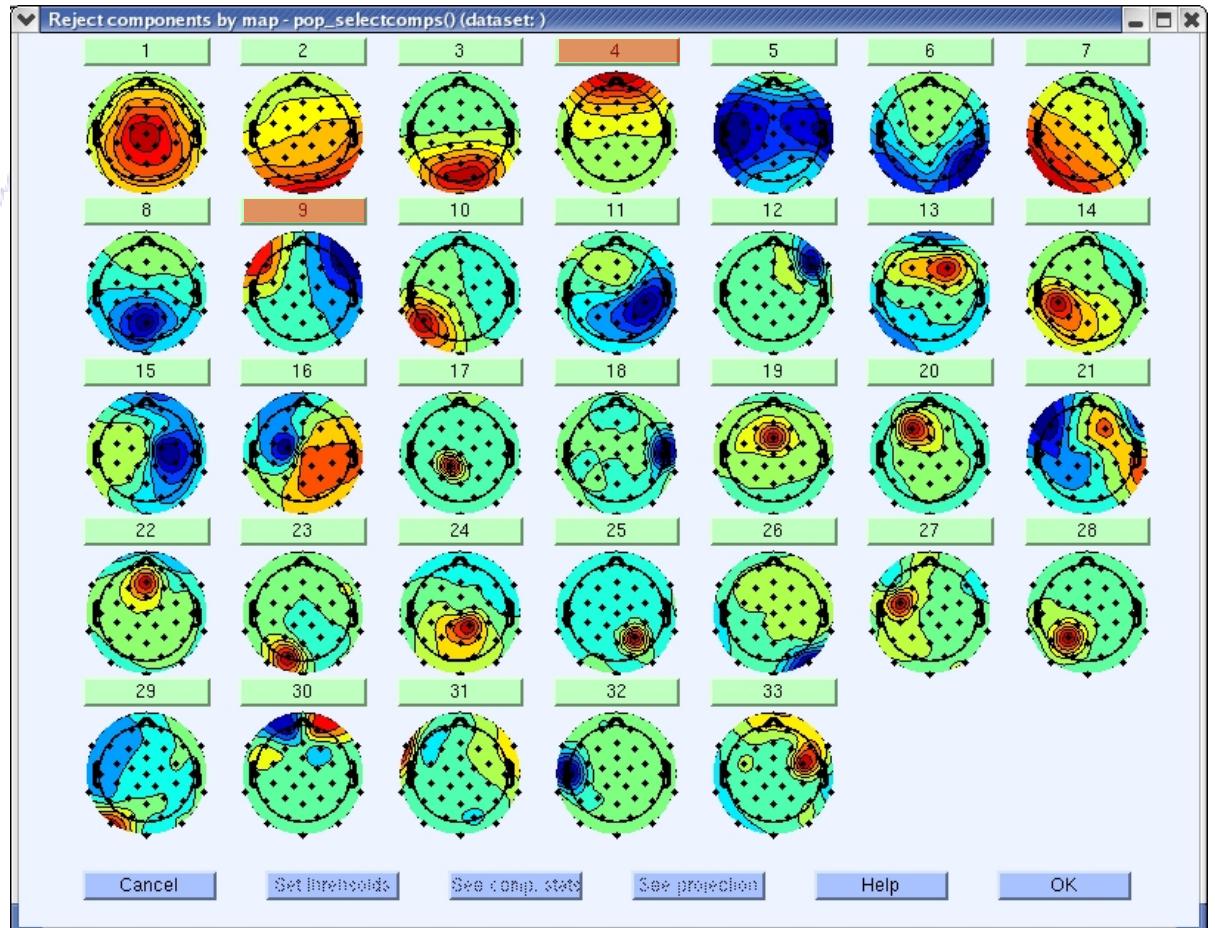
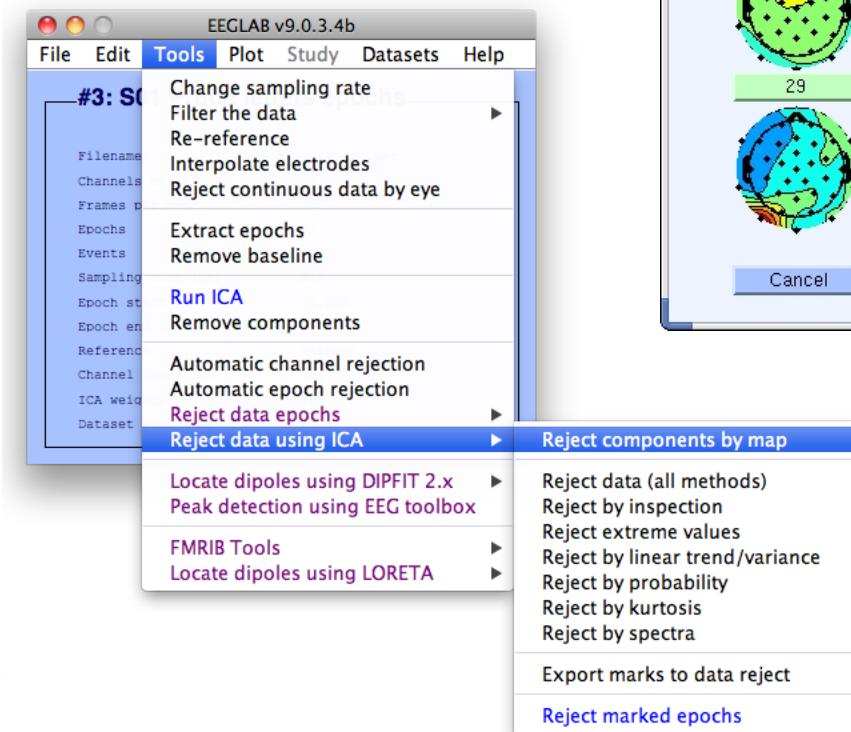
Plot the data

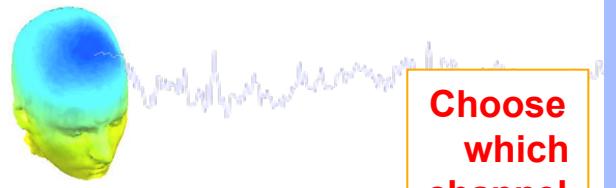
Exercise...



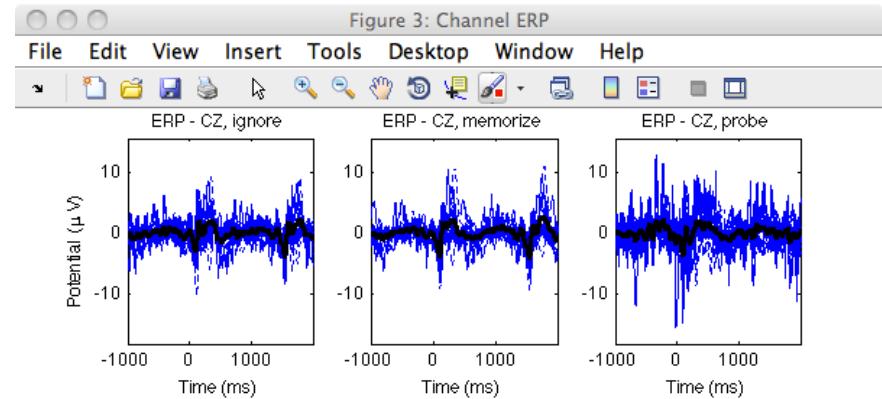
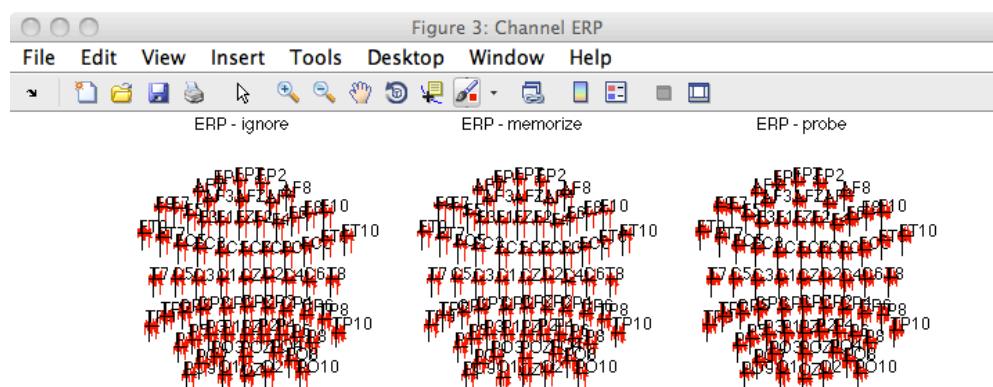
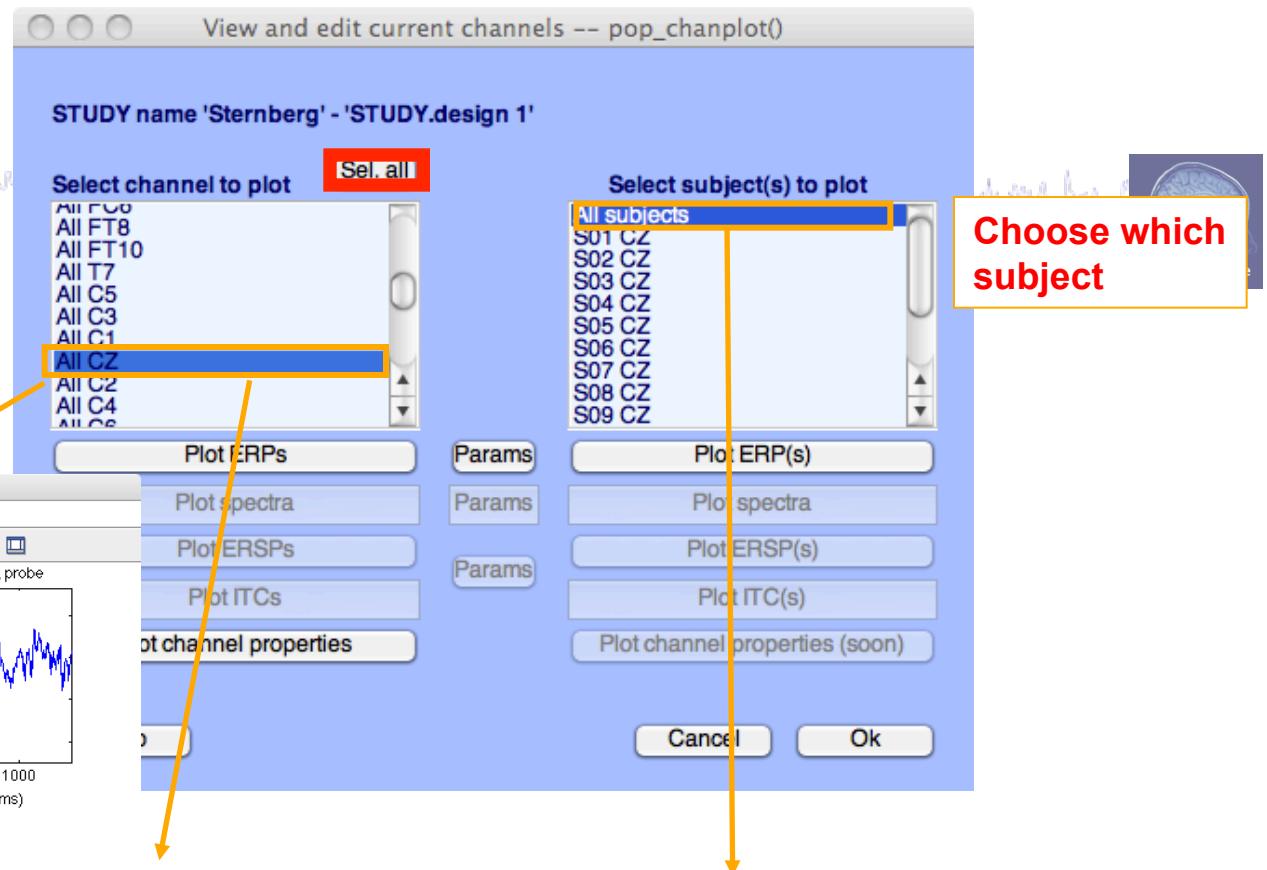
Precompute data measures

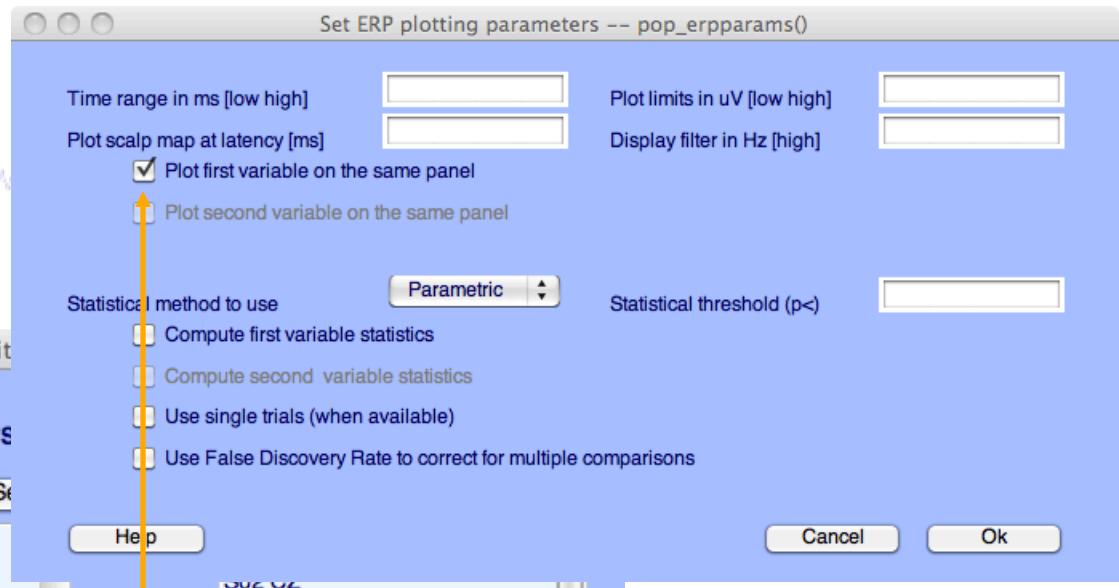
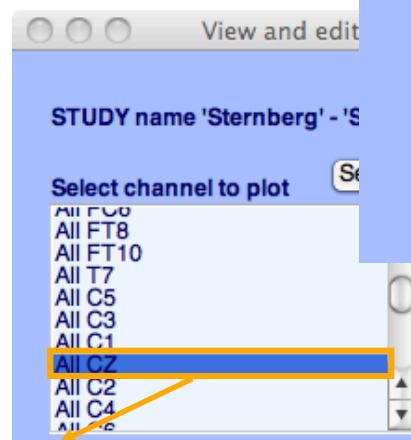
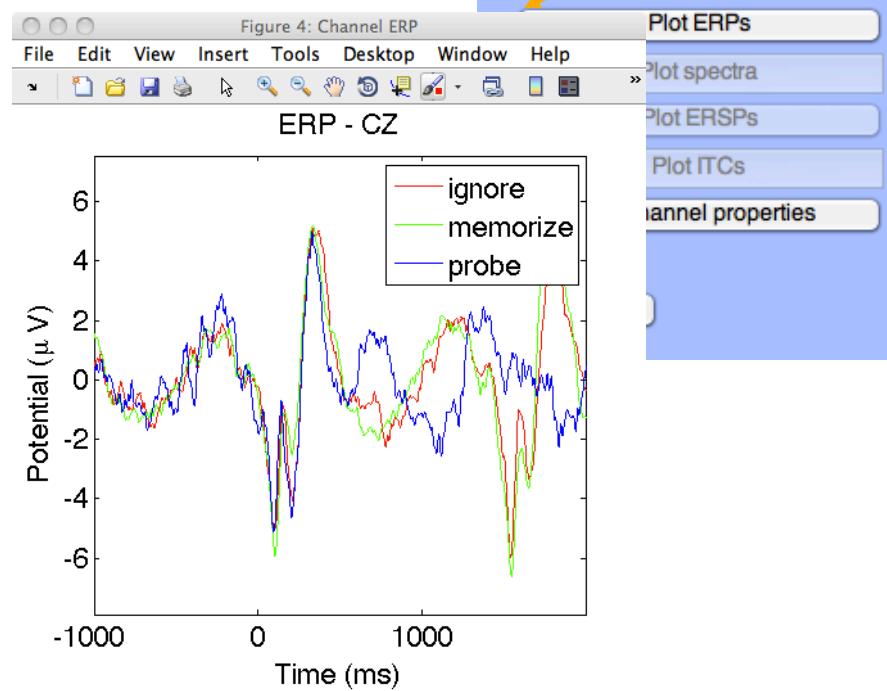




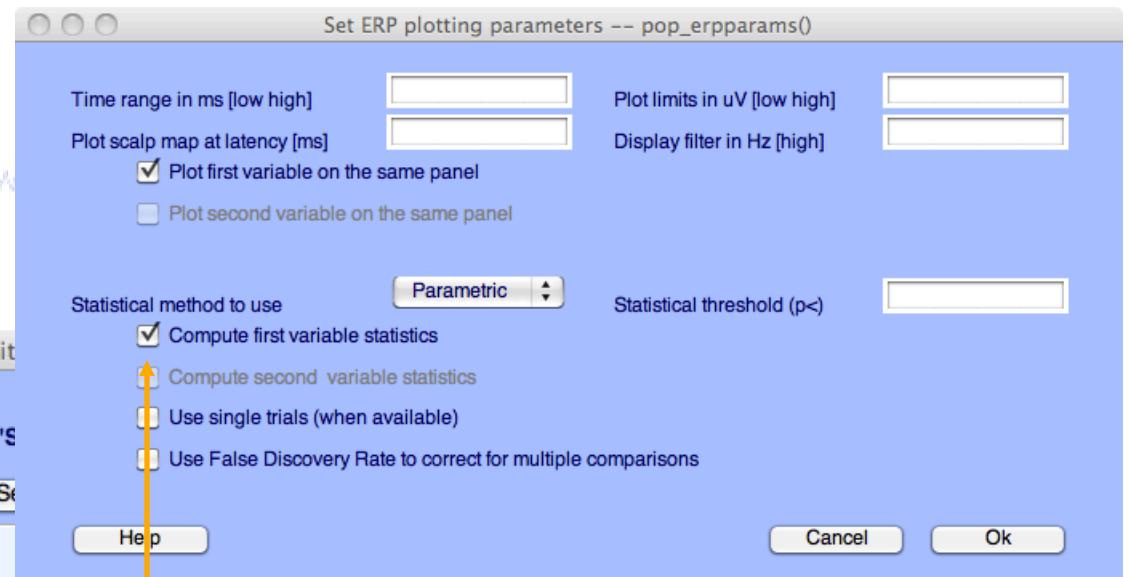
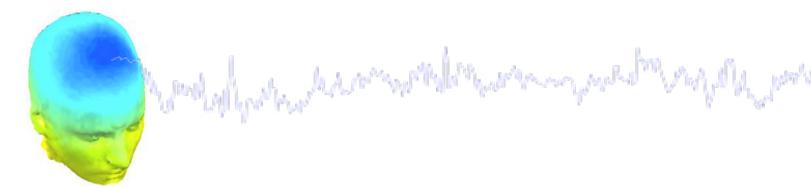


Choose which channel





- S02 CZ
- S03 CZ
- S04 CZ
- S05 CZ
- S06 CZ
- S07 CZ
- S08 CZ
- S09 CZ



View and edit

STUDY name 'Sternberg' - 'S'

Select channel to plot

All Fz
All FT8
All FT10
All T7
All C5
All C3
All C1
All CZ
All C2
All C4
All C6

S02 CZ
S03 CZ
S04 CZ
S05 CZ
S06 CZ
S07 CZ
S08 CZ
S09 CZ

Help

Params

Plot ERP(s)

Plot ERPs

Plot spectra

Params

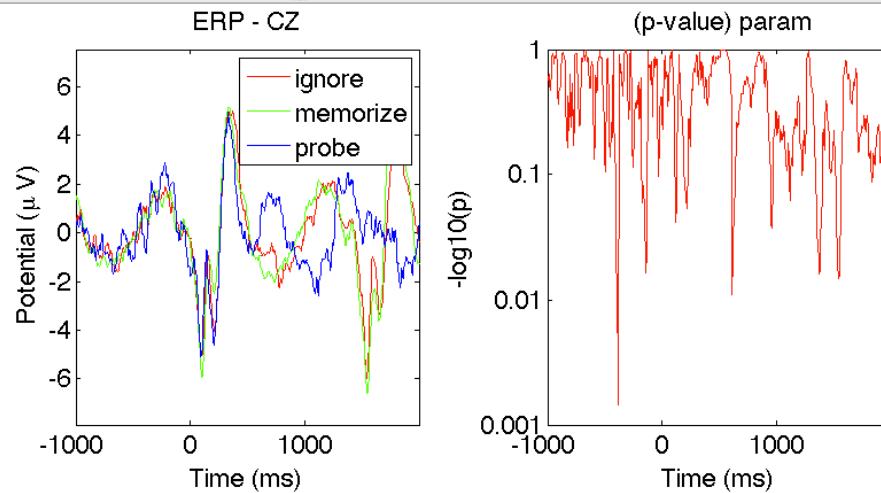
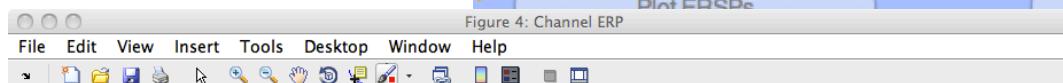
Plot spectra

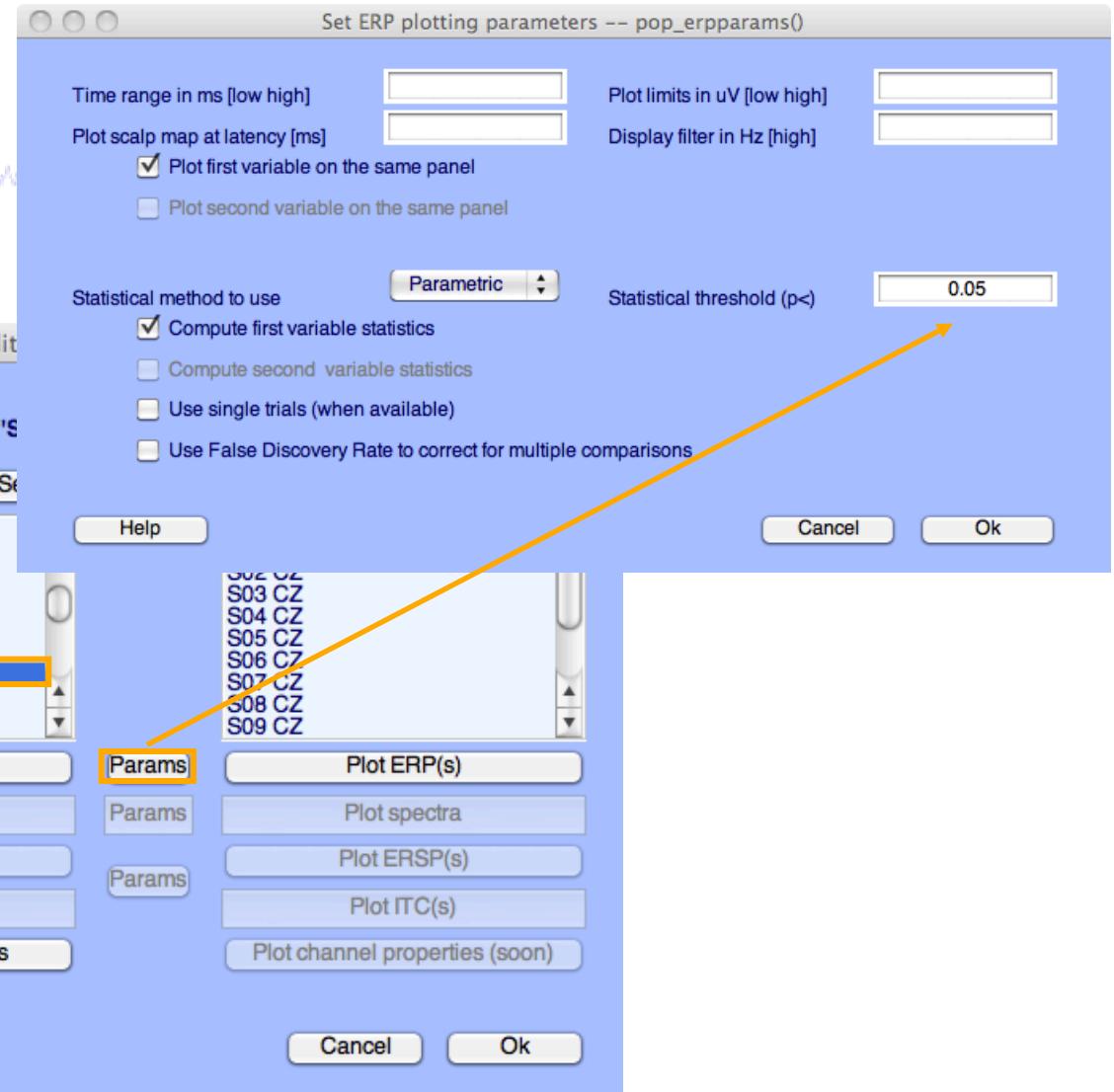
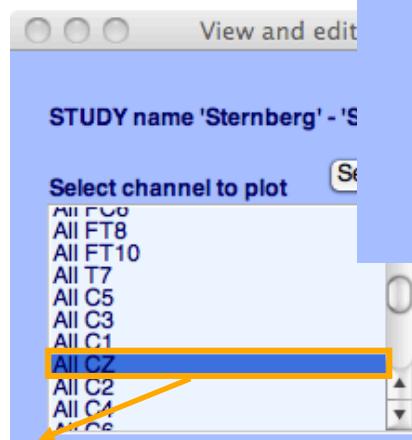
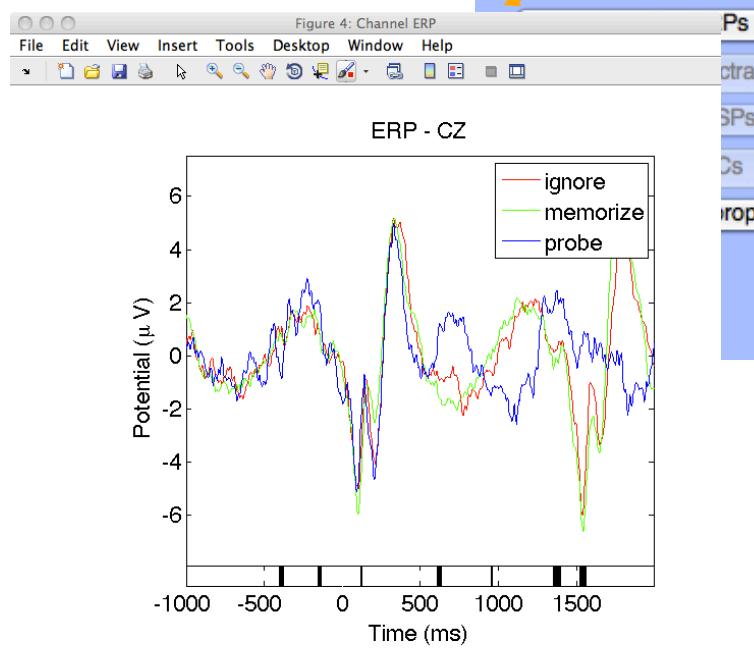
Plot ERSPs

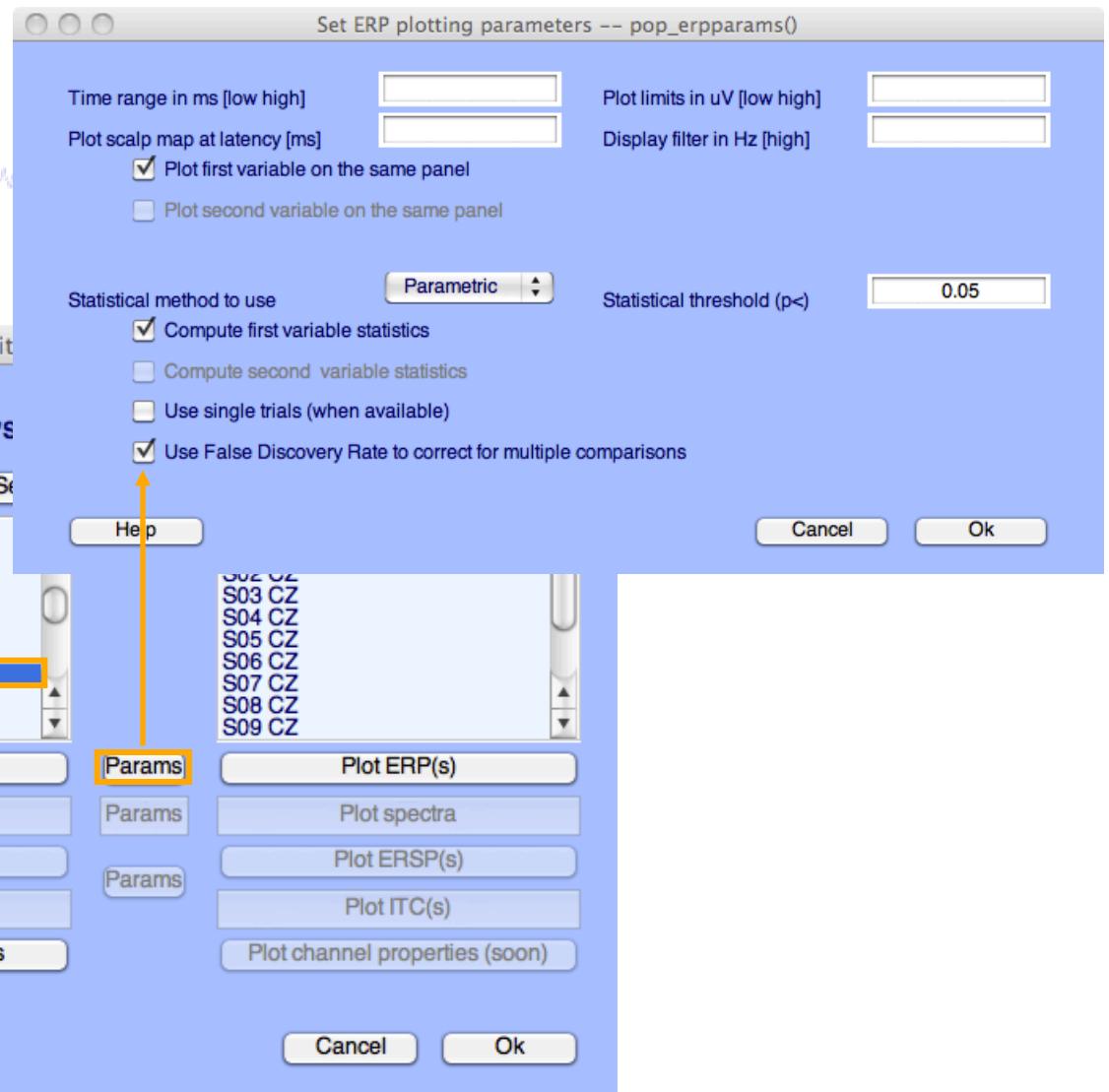
Plot ERSP(s)

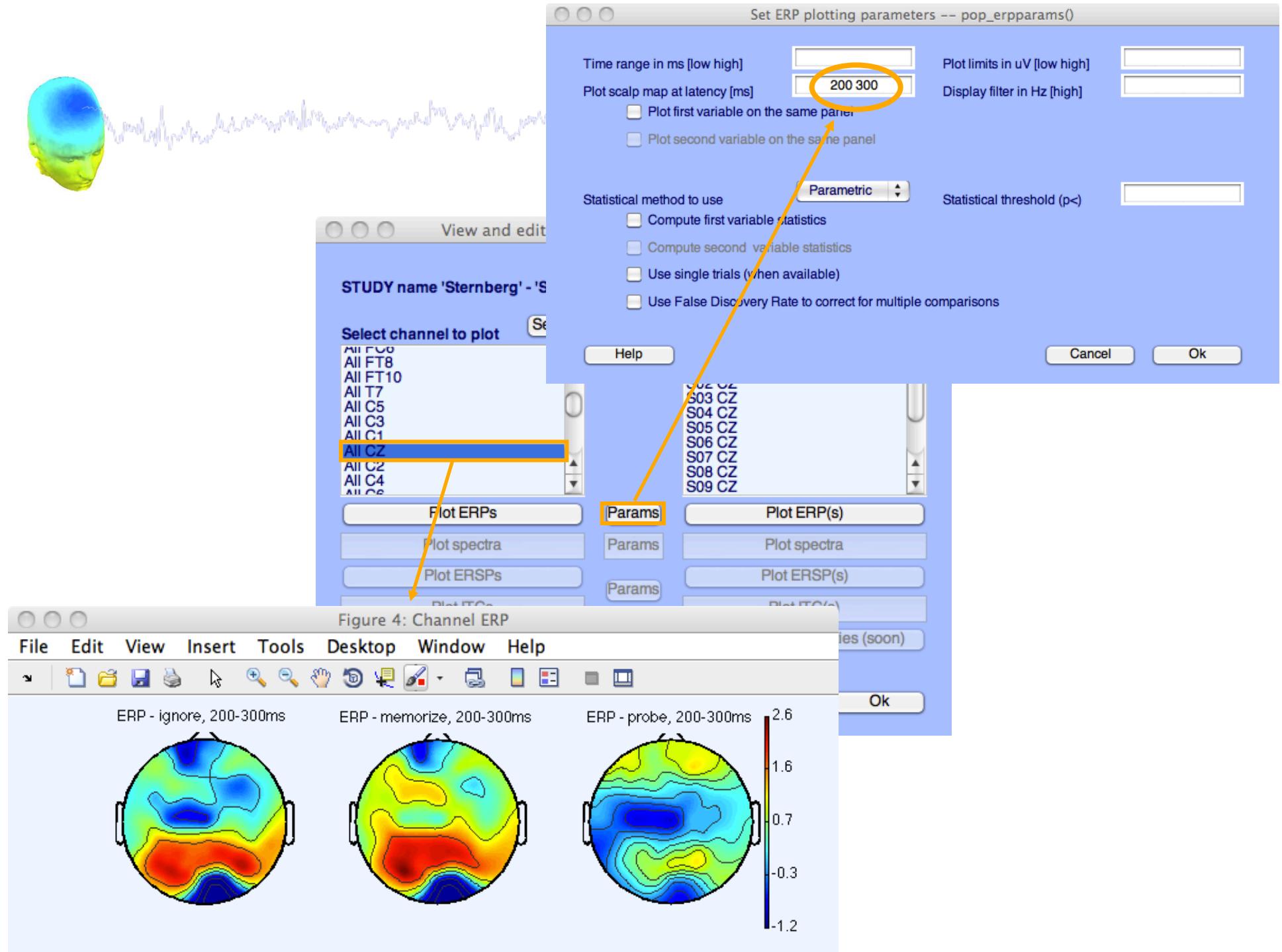
Plot ITC(s)

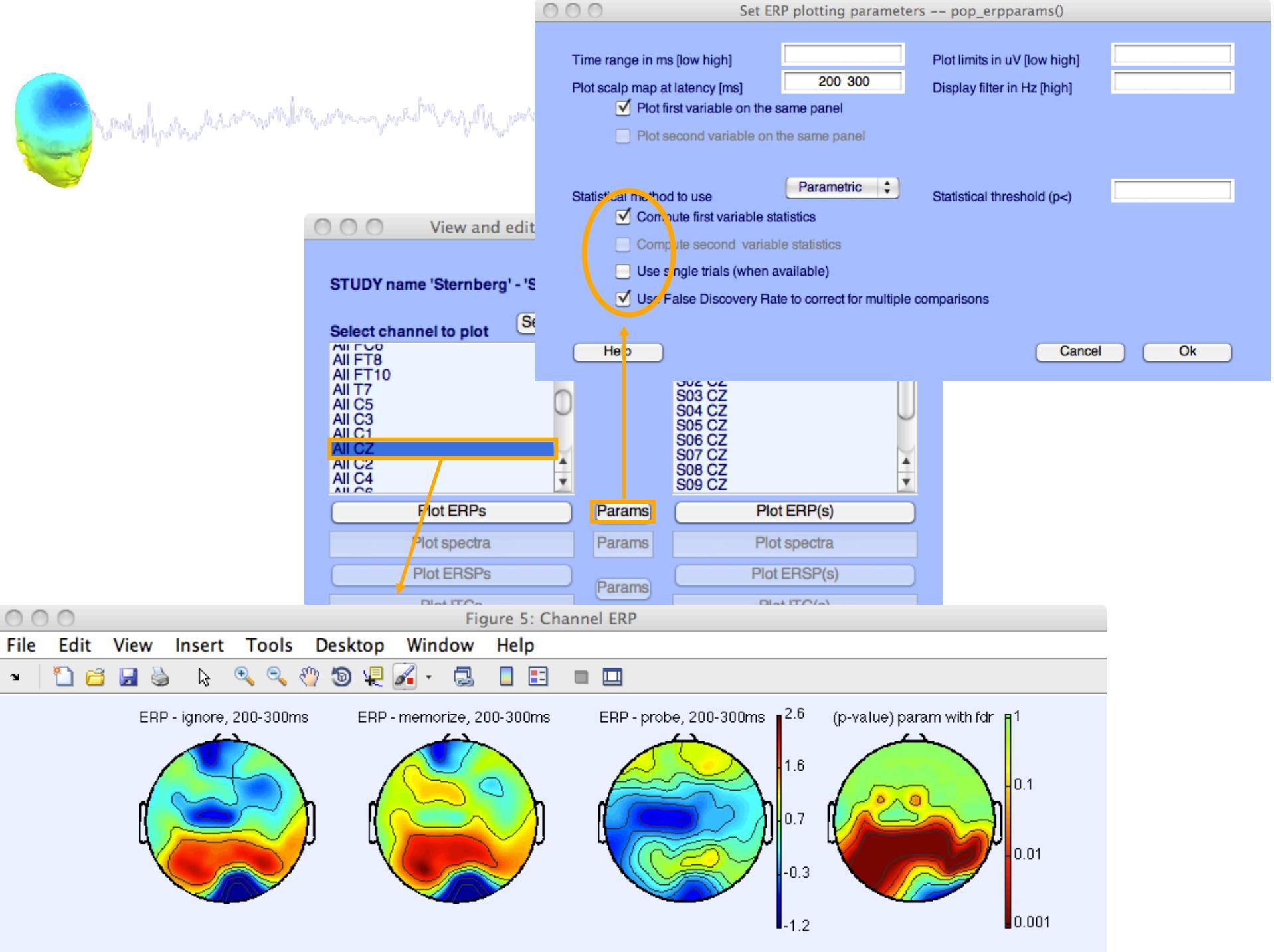
Plot ITC(s)

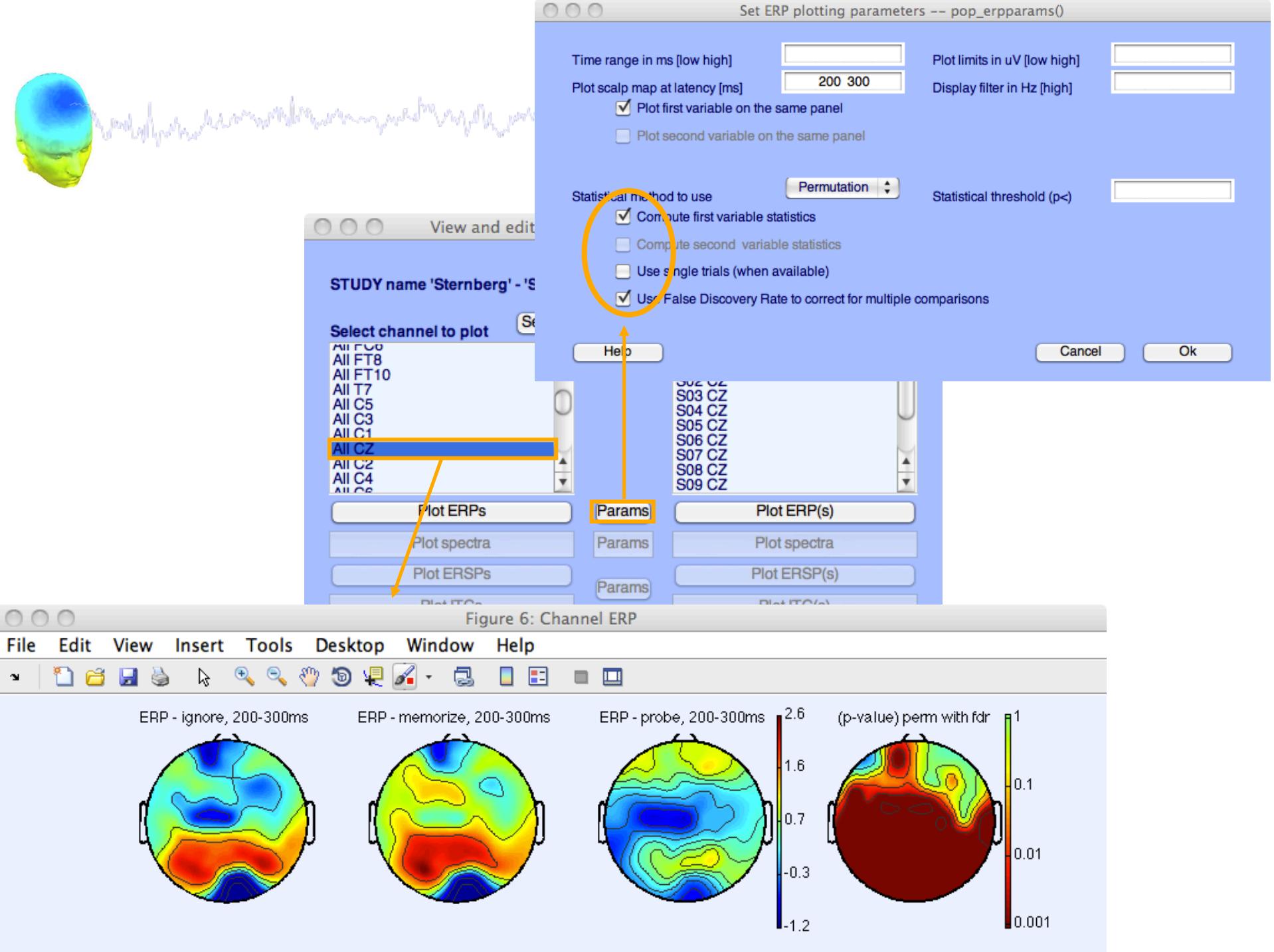




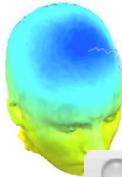








Computing Spectrum



Select and compute component measures for later clustering -- pop_precomp()

Pre-compute channel measures for STUDY 'Sternberg' - 'STUDY.design 1'

Channel list (default:all) ...

Spherical interpolation of missing channels (performed after optional ICA removal below)

Remove ICA artifactual components pre-tagged in each dataset

Remove artifactual ICA cluster or clusters (hold shift key)
Cls 2
Cls 3
Cls 4

List of measures to precompute

ERPs Baseline ([min max] in ms)

Power spectrum Spectopo parameters

ERSPs

ITCs

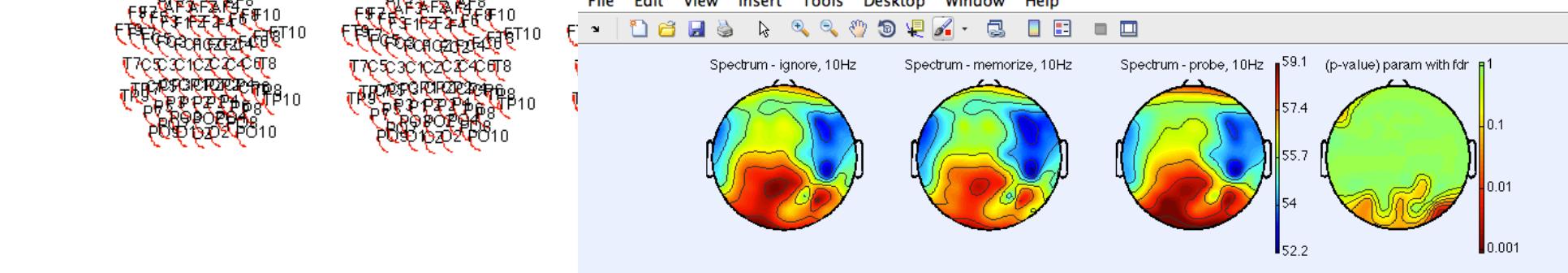
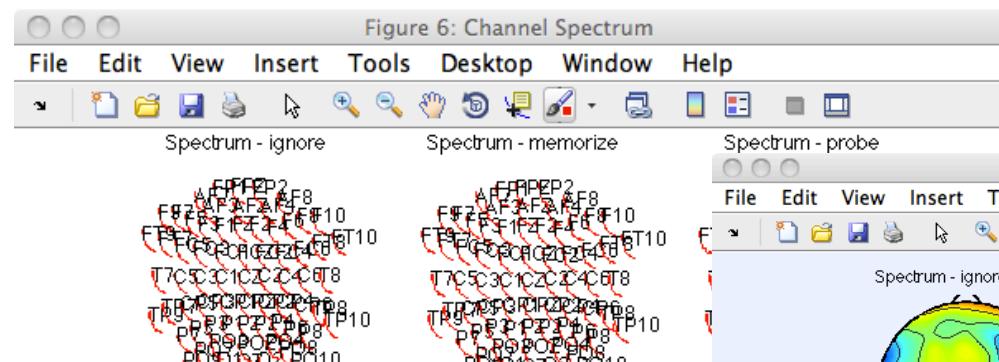
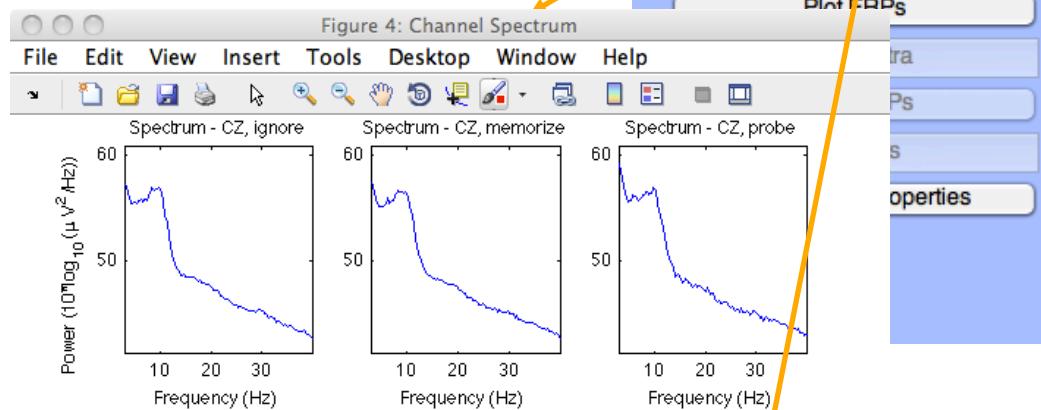
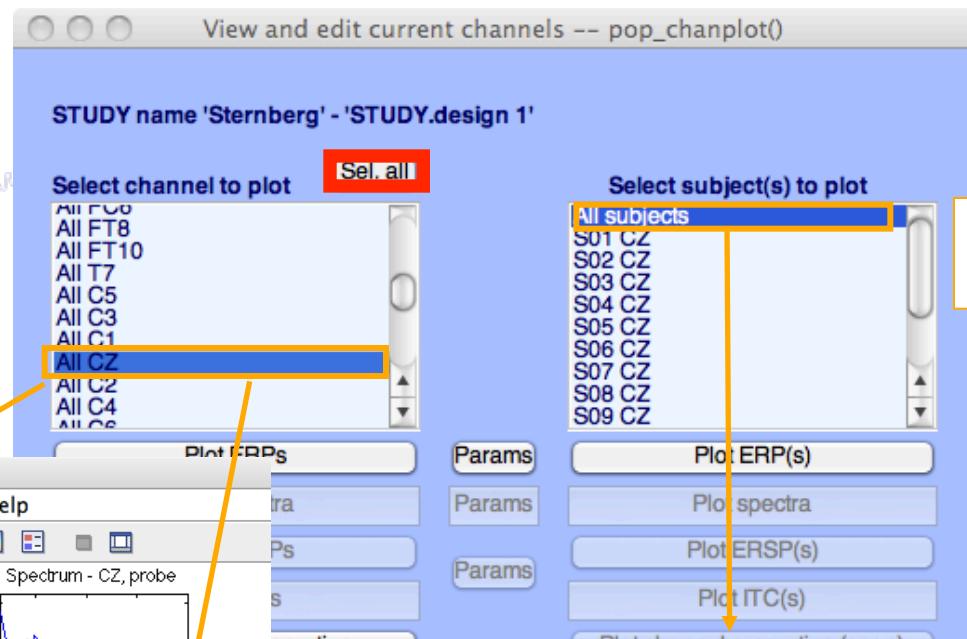
Save single-trial measures for single-trial statistics - requires disk space

Recompute even if present on disk

Use 'timerange' option
to select time range,
see "help std_spec"

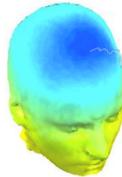


**Choose
which
channel**



**Choose which
subject**

Computing ERSP



Select and compute component measures for later clustering -- pop_precomp()

Pre-compute channel measures for STUDY 'Sternberg' - 'Design 2'

Channel list (default:all) ...

Spherical interpolation of missing channels (performed after optional ICA removal below)

Remove ICA artifactual components pre-tagged in each dataset

Remove artifactual ICA cluster or clusters (hold shift key)

ParentCluster 1
Cls 2
Cls 3
Cls 4

List of measures to precompute

ERPs Baseline ([min max] in ms)
 Power spectrum Spectopo parameters Test

ERSPs Time/req. parameters [3 0.8], 'nfreqs', 50, 'ntimesout', 100 Test

ITCs

Save single-trial measures for single-trial statistics - requires disk space

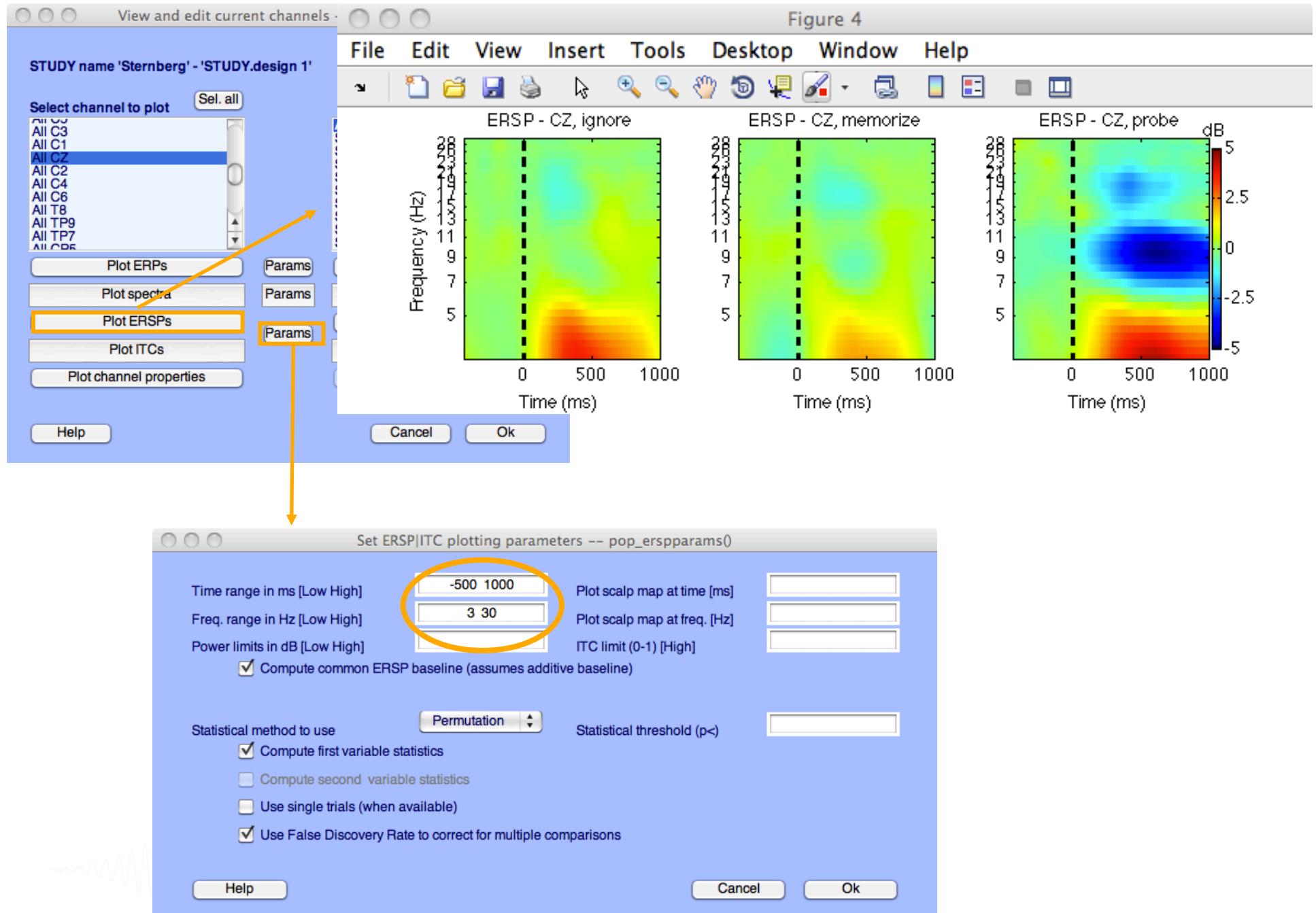
Recompute even if present on disk

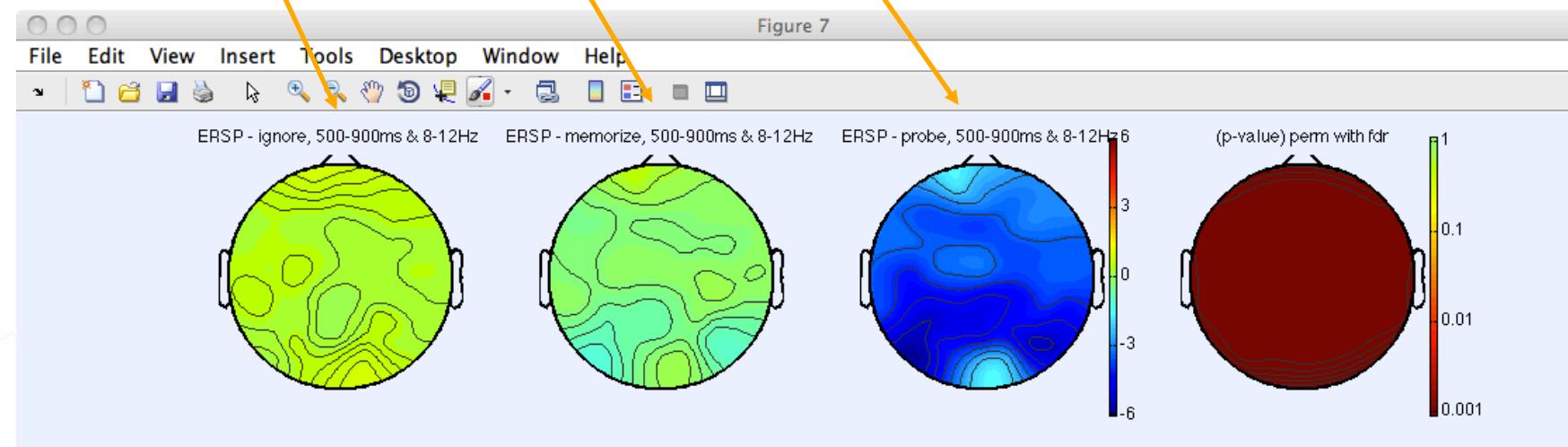
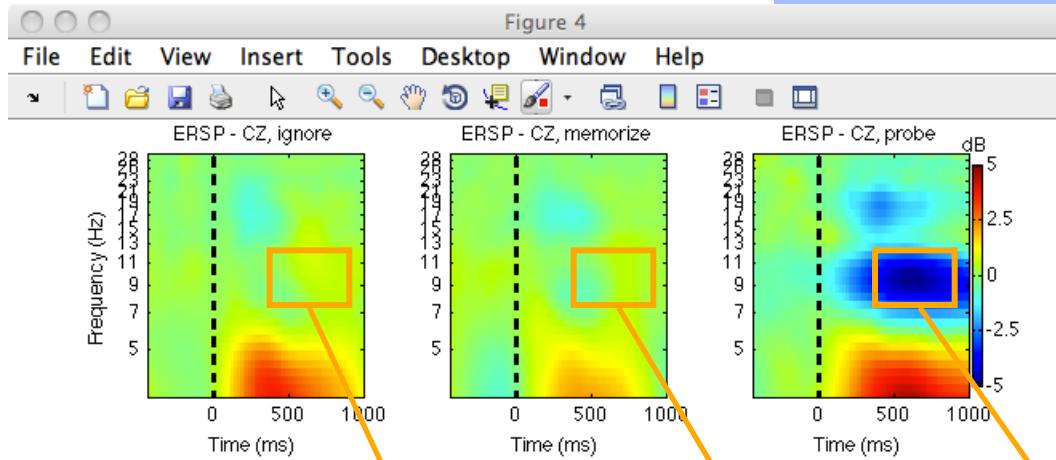
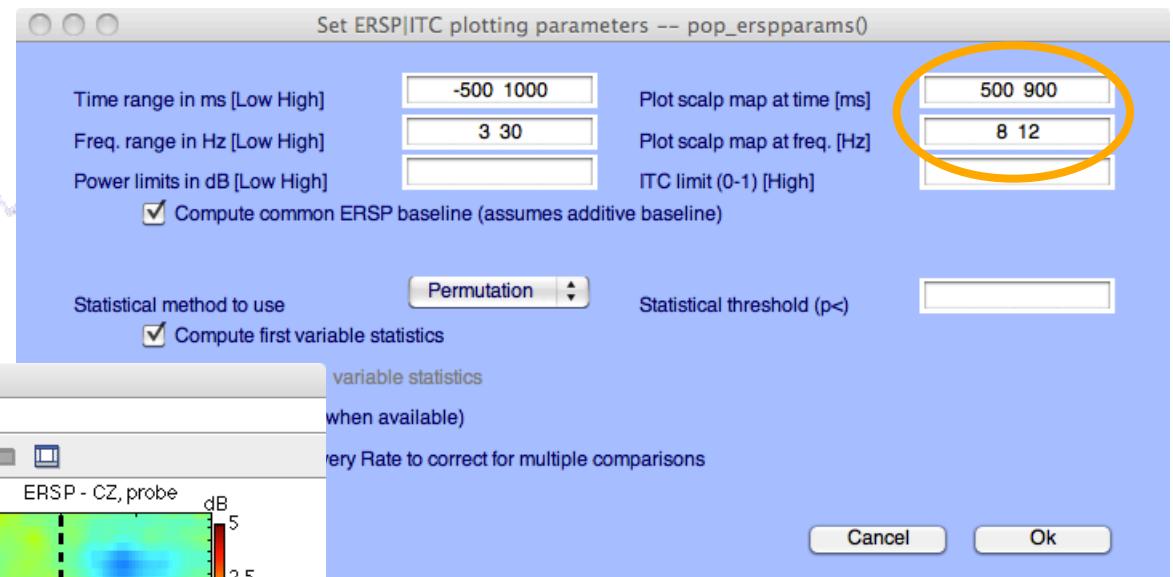
Help Cancel Ok

'cycles', [3 0.8], 'nfreqs', 50, 'ntimesout', 100

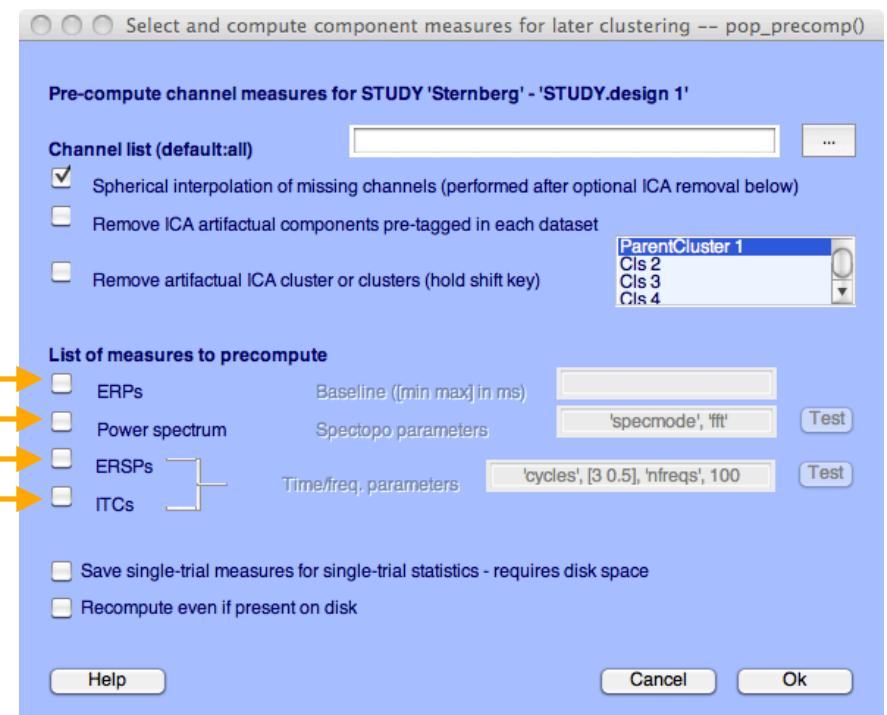
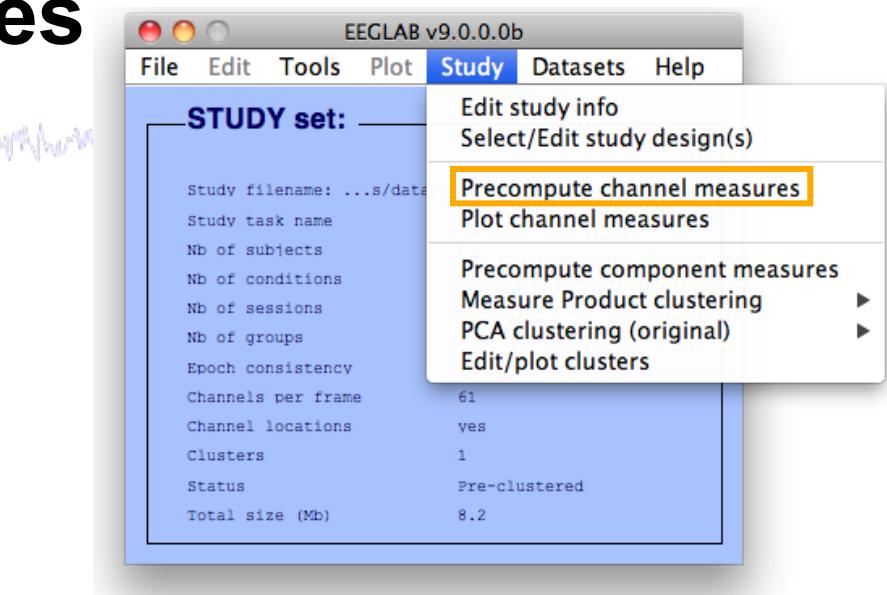
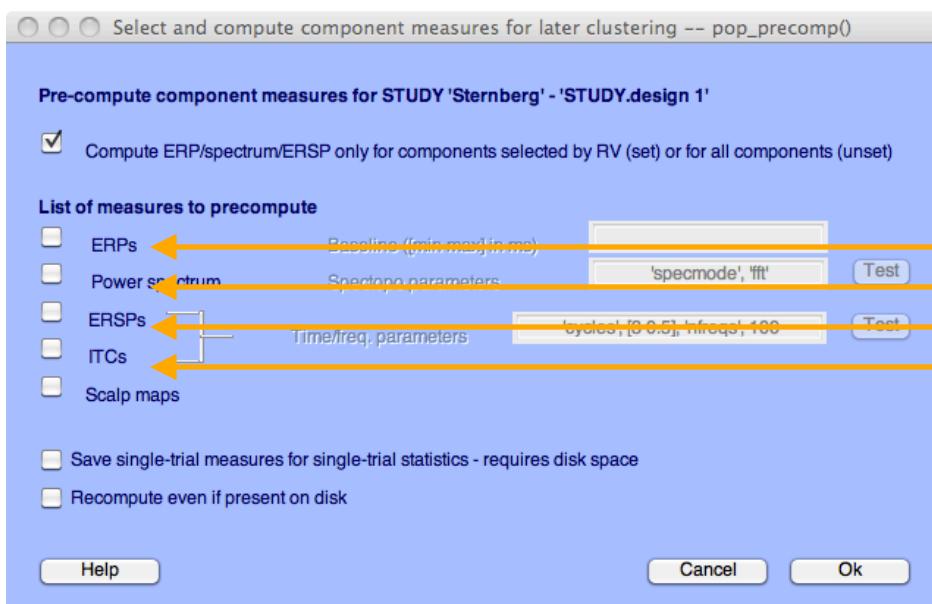
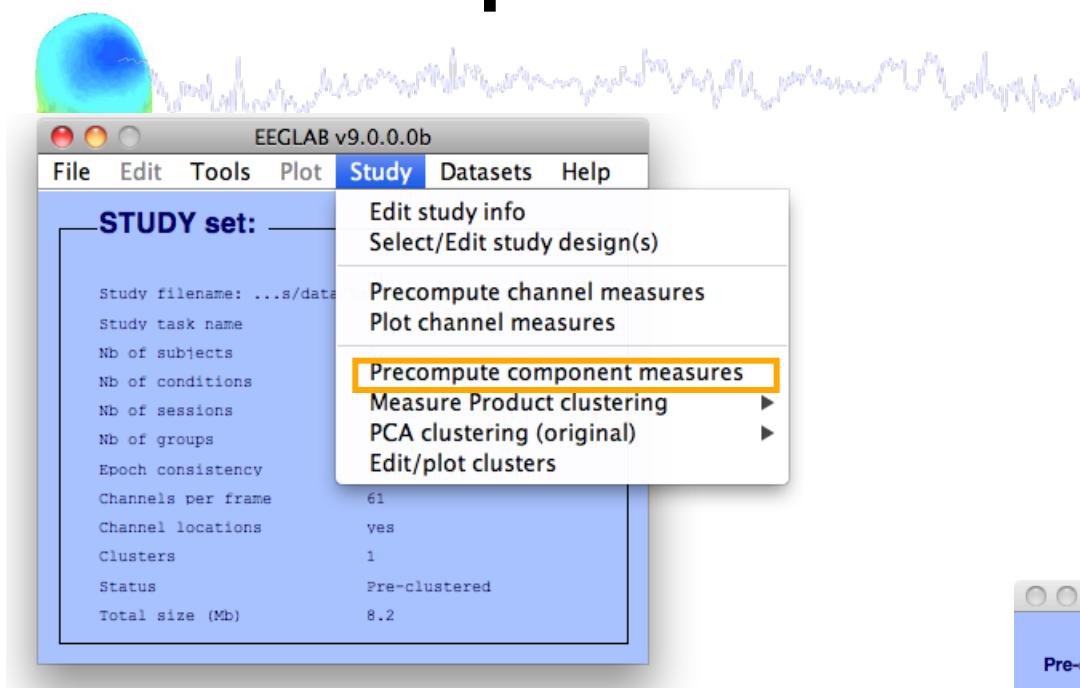
A yellow arrow points from the text "'cycles', [3 0.8], 'nfreqs', 50, 'ntimesout', 100" to the 'Time/req. parameters' input field for the ERSPs measure.







2. Pre-compute measures



3. Cluster components



EEGLAB v6.0b

File Edit Tools Plot Study Datasets Help

STUDY set: Attention

Study filename: Attention

Study task name: Attention

Nb of subjects: 31

Nb of conditions: 1

Nb of sessions: 1

Nb of groups: 1

Epoch consistency: yes

Channels per frame: 31

Channel locations: yes

Clusters: 1

Status: Pre-clustered

Total size (Mb): 32.4

Study info

Precompute channel measures

Plot channel measures

Precompute component measures

Build preclustering array

Cluster components

Edit/plot clusters

Select and compute component measures for later clustering -- pop_pclust()

Build pre-clustering matrix for STUDY 'Attention'

Select the cluster to refine during sub-clustering (any existing sub-hierarchy will be overwritten)

ParentCluster 1 (181 ICs)

(note:only measures that have been precomputed may be used)

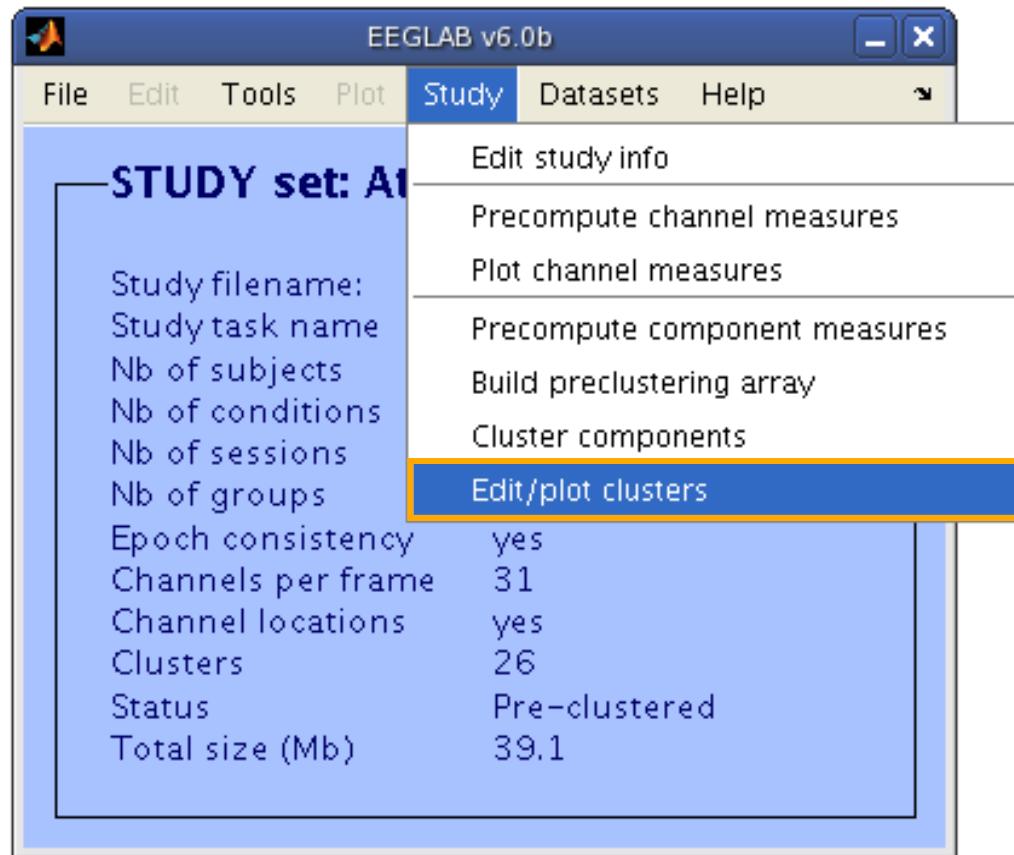
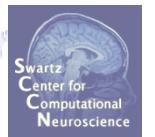
Load Dims. Norm Rel. Wt.

<input checked="" type="checkbox"/> spectra	10	<input checked="" type="checkbox"/> 1	Freq.range [Hz] 3.25
<input checked="" type="checkbox"/> ERPs	10	<input checked="" type="checkbox"/> 1	Time range [ms] 0.600
<input checked="" type="checkbox"/> dipoles	3	<input checked="" type="checkbox"/> 10	
<input type="checkbox"/> scalp maps	10	<input checked="" type="checkbox"/> 1	
<input checked="" type="checkbox"/> ERSPs	20	<input checked="" type="checkbox"/> 1	Use channel values
<input checked="" type="checkbox"/> ITCs	10	<input checked="" type="checkbox"/> 1	Absolute values
<input type="checkbox"/> Final dimensions	10	<input checked="" type="checkbox"/> 1	Time range [ms] 0.1500
		<input checked="" type="checkbox"/> 1	Time range [ms] 0.600
		<input checked="" type="checkbox"/> 1	Freq. range [Hz] 3.45
		<input checked="" type="checkbox"/> 1	Freq. range [Hz] 2.30

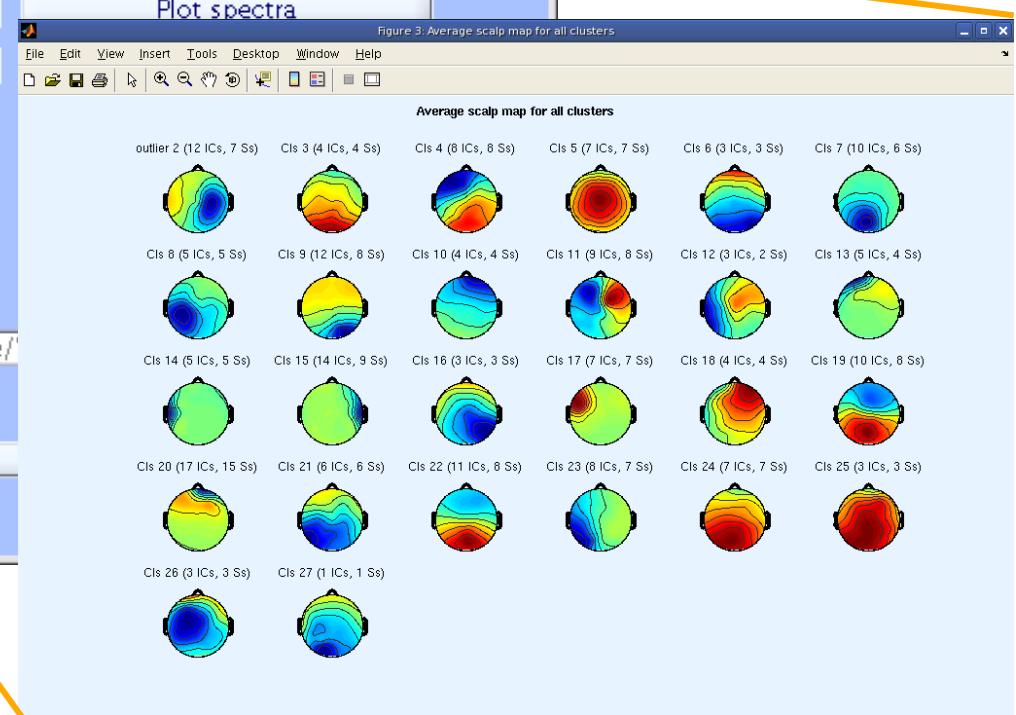
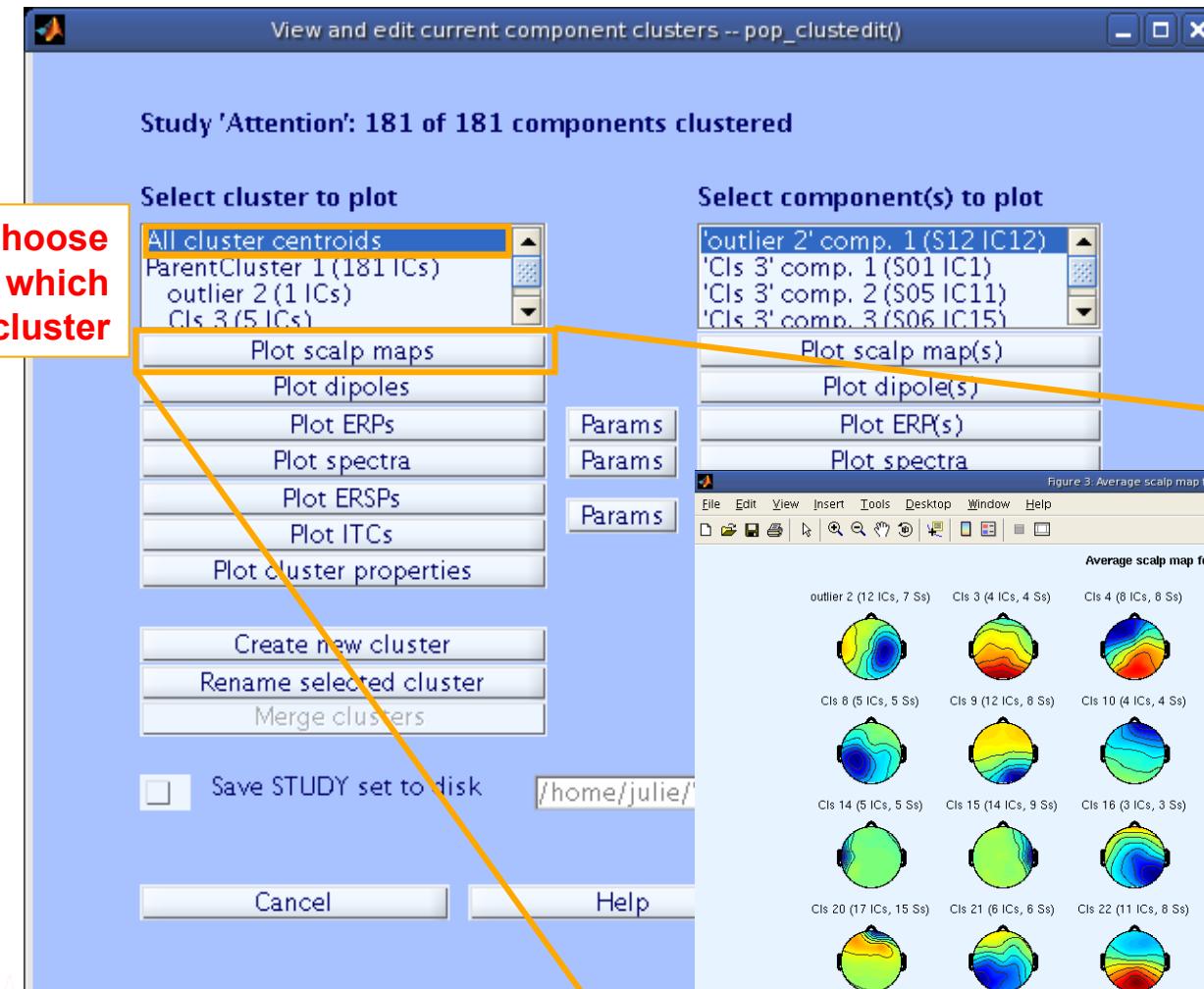
Save STUDY to file /home/julie/WorkshopSD2007/STUDY/attention.study ...

Cancel Help Ok

View and edit clusters

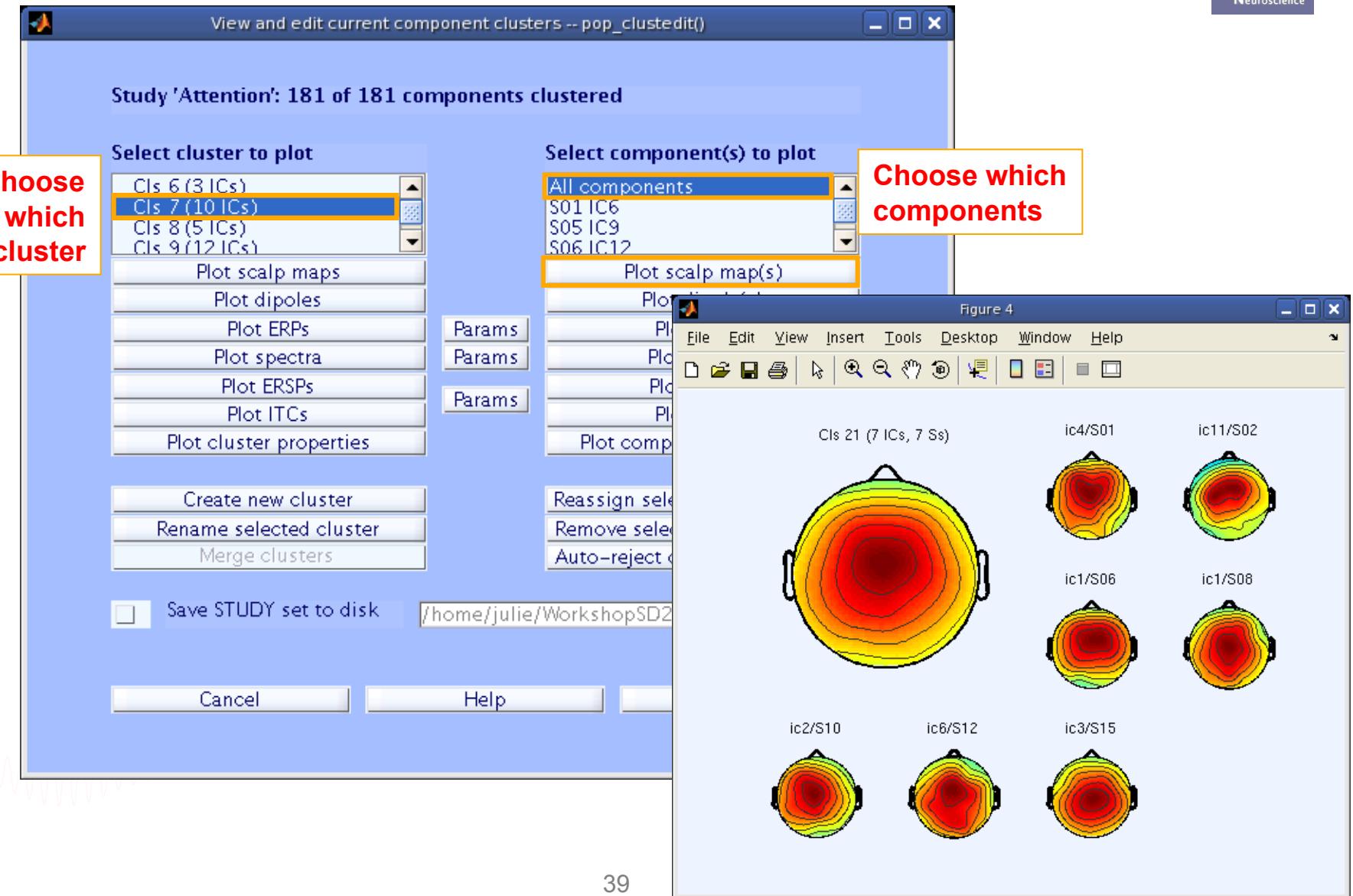
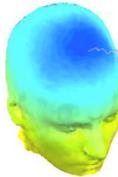


Plot cluster data

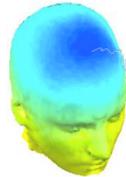


Plot mean scalp maps for easy reference

Plot cluster data



Plot cluster data



View and edit current component clusters -- pop_clustedit()

Study 'Attention': 181 of 181 components clustered

Select cluster to plot

- Cls 6 (3 ICs)
- Cls 7 (10 ICs)**
- Cls 8 (5 ICs)
- Cls 9 (12 ICs)

Plot scalp maps
Plot dipoles
Plot ERPs
Plot spectra
Plot ERSPs
Plot ITCs
Plot cluster properties

Params
Params
Params

Select component(s) to plot

- All components
- S01 IC6
- S05 IC9
- S06 IC12

Plot scalp map(s)
Plot dipole(s)
Plot ERP(s)
Plot spectra
Plot ERSP(s)
Plot ITC(s)
Plot component properties

Params

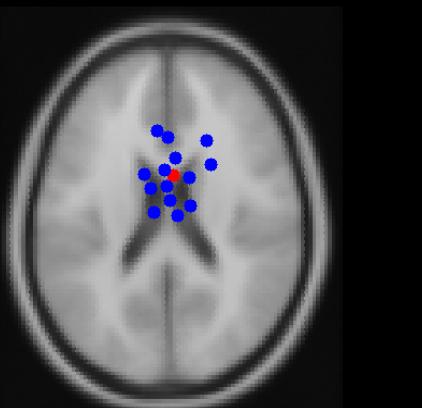
Create new cluster
Rename selected cluster
Merge clusters

Reassign selected component(s)
Remove selected outlier comps.
Auto-reject outlier components

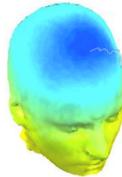
Save STUDY set to disk /home/julie/WorkshopSD2007/STUDY ...

Cancel Help Ok

15 dipoles:
Plot one
Keep|Next
Next
Prev
Keep|Prev
1
IC3, S02
RV: 2.62%
X tal: -6
Y tal: -13
Z tal: 21
Display:
Mesh on
Tight view
Sagittal view
Coronal view
Top view
No controls



Exercises



Suggestion for exercises:

Load stern.study in STUDY folder

From the GUI, plot grand average ERP for all channels.
Experiment with statistics.

Build a STUDY design to compare Ignore letter grouped with Memorize letter with Probe letters. Recompute spectrum and plot spectrum for electrode Fz using statistics. Do the same for the frontal midline component cluster (cluster 19).

