

# EEG Processing Report

Run ID: 01K4AHHYHQR91EZRXS CD27PFB3 - SUCCESS

Generated: 2025-09-04 10:22:39

Import Information		Processing Details	
File	128_Rest_EyesOpen_D1004.raw	Filter	1-80 Hz
Duration	303.4 sec	Notch	60, 120 Hz
Sample Rate	1000.0 Hz	Resample Rate	250 Hz
Channels	128	Trim Duration	4 sec
		Reference	average

## Task Parameters

Parameter	Value
move_flagged_files	False
resample_step.enabled	True
resample_step.value	250
filtering.enabled	True
filtering.value.l_freq	1
filtering.value.h_freq	80
filtering.value.notch_freqs	[60, 120]
filtering.value.notch_widths	5
drop_outerlayer.enabled	False
drop_outerlayer.value	[]
eog_step.enabled	False
eog_step.value	[1, 32, 8, 14, 17, 21, 25, 125, 126, 127, 128]
trim_step.enabled	True
trim_step.value	4
crop_step.enabled	False
crop_step.value.start	0
crop_step.value.end	60
reference_step.enabled	True
reference_step.value	average
montage.enabled	True
montage.value	GSN-HydroCel-129
ICA.enabled	True
ICA.value.method	infomax
ICA.value.n_components	None
ICA.value.fit_params.extended	True
component_rejection.enabled	True
component_rejection.method	icvision
component_rejection.value.ic_flags_to_reject	['muscle', 'heart', 'eog', 'ch_noise', 'line_noise']

component_rejection.value.ic_rejection_threshold	0.3
epoch_settings.enabled	True
epoch_settings.value.tmin	-1
epoch_settings.value.tmax	1
epoch_settings.event_id	None
epoch_settings.remove_baseline.enabled	False
epoch_settings.remove_baseline.window	[None, 0]
epoch_settings.threshold_rejection.enabled	False
epoch_settings.threshold_rejection.volt_threshold.eeg	0.000125

Processing Steps

Processing Step
Create Bids Path
Resample Data
Filter Data
Trim Edges
Clean Bad Channels
Rereference Data
Annotate Noisy Epochs
Annotate Uncorrelated Epochs
Detect Dense Oscillatory Artifacts
Run Ica
Apply Ica Component Rejection
Create Regular Epochs
Detect Outlier Epochs
Gfp Clean Epochs
Psd Topo Figure

Bad Channels

Source	Bad Channels
Clean Bad Channels	E3, E122, E107, E8, E14, E56, E17, E127, E2
Uncorrelated Channels	E2, E3, E17, E56, E107, E122
Deviation Channels	E8, E14, E17
Ransac Channels	E127
Total Removed	9 / 128 (7.0%)

Results Summary

Metric	Value
Processing State	completed_files
Epochs Retained	90 / 147 (61.2%)
Duration Retained	180.0s / 294.0s (61.2%)
Removed ICA Components	0, 1, 2, 4, 7, 8, 12, 13, 17, 18, 20, 28, 30, 31, 32, 35, 38, 45, 50, 64, 70, 98, 115

Quality Control Flags

Flagged Reason
WARNING: 130 potential reference artifacts detected

Output Files

File Name
128_Rest_EyesOpen_D1004_psd_topo_figure.png
128_Rest_EyesOpen_D1004-ica.fif
128_Rest_EyesOpen_D1004_raw_vs_cleaned_overlay.png
sub-451559_task-restingstatetutorialica_components_all.pdf