

Supplementary Material A

Montreal Neurophysiological Institute (MNI) coordinates of the 84 regions of interest (ROI) used to analyze the electroencephalograph signal of each exertion level.

Hemisphere	MNI			Lobe	Structure	Brodmann area	ROI
	X	Y	Z				
Left	-35	-25	55	Frontal Lobe	Precentral Gyrus	BA 4	1
Right	35	-20	50	Frontal Lobe	Precentral Gyrus	BA 4	2
Right	15	-45	60	Frontal Lobe	Paracentral Lobule	BA 5	3
Left	-15	-45	60	Frontal Lobe	Paracentral Lobule	BA 5	4
Right	30	-5	55	Frontal Lobe	Middle Frontal Gyrus	BA 6	5
Left	-30	-5	55	Frontal Lobe	Middle Frontal Gyrus	BA 6	6
Right	20	25	50	Frontal Lobe	Superior Frontal Gyrus	BA 8	7
Left	-20	30	50	Frontal Lobe	Superior Frontal Gyrus	BA 8	8
Left	-30	30	35	Frontal Lobe	Middle Frontal Gyrus	BA 9	9
Right	30	30	35	Frontal Lobe	Middle Frontal Gyrus	BA 9	10
Right	25	55	5	Frontal Lobe	Superior Frontal Gyrus	BA 10	11
Left	-25	55	5	Frontal Lobe	Superior Frontal Gyrus	BA 10	12
Right	20	45	-20	Frontal Lobe	Superior Frontal Gyrus	BA 11	13
Left	-20	40	-15	Frontal Lobe	Middle Frontal Gyrus	BA 11	14
Right	5	15	-15	Frontal Lobe	Subcallosal Gyrus	BA 25	15
Left	-10	20	-15	Frontal Lobe	Medial Frontal Gyrus	BA 25	16
Right	55	10	15	Frontal Lobe	Precentral Gyrus	BA 44	17
Left	-50	10	15	Frontal Lobe	Precentral Gyrus	BA 44	18
Right	50	20	15	Frontal Lobe	Inferior Frontal Gyrus	BA 45	19
Left	-50	20	15	Frontal Lobe	Inferior Frontal Gyrus	BA 45	20
Right	45	35	20	Frontal Lobe	Middle Frontal Gyrus	BA 46	21
Left	-45	35	20	Frontal Lobe	Middle Frontal Gyrus	BA 46	22
Right	30	25	-15	Frontal Lobe	Inferior Frontal Gyrus	BA 47	23
Left	-30	25	-15	Frontal Lobe	Inferior Frontal Gyrus	BA 47	24
Left	-55	-25	50	Parietal Lobe	Postcentral Gyrus	BA 2	25
Left	-45	-30	45	Parietal Lobe	Postcentral Gyrus	BA 2	26
Right	55	-25	50	Parietal Lobe	Postcentral Gyrus	BA 2	27
Right	35	-25	50	Parietal Lobe	Postcentral Gyrus	BA 3	28
Right	40	-25	50	Parietal Lobe	Postcentral Gyrus	BA 3	29
Left	-20	-65	50	Parietal Lobe	Precuneus	BA 7	30
Right	15	-65	50	Parietal Lobe	Precuneus	BA 7	31
Left	-10	-50	30	Parietal Lobe	Precuneus	BA 31	32
Right	10	-50	35	Parietal Lobe	Precuneus	BA 31	33

Right	50	-30	45	Parietal Lobe	Inferior Parietal Lobule	BA 40	34
Right	50	-45	45	Parietal Lobe	Inferior Parietal Lobule	BA 40	35
Left	-50	-40	40	Parietal Lobe	Inferior Parietal Lobule	BA 40	36
Left	-5	-40	25	Limbic Lobe	Posterior Cingulate	BA 23	37
Right	5	-45	25	Limbic Lobe	Posterior Cingulate	BA 23	38
Right	5	0	35	Limbic Lobe	Cingulate Gyrus	BA 24	39
Right	5	30	20	Limbic Lobe	Anterior Cingulate	BA 24	40
Left	-5	0	35	Limbic Lobe	Cingulate Gyrus	BA 24	41
Left	-5	30	20	Limbic Lobe	Anterior Cingulate	BA 24	42
Right	20	-35	-5	Limbic Lobe	Parahippocampal Gyrus	BA 27	43
Left	-20	-35	-5	Limbic Lobe	Parahippocampal Gyrus	BA 27	44
Left	-20	-10	-25	Limbic Lobe	Parahippocampal Gyrus	BA 28	45
Right	20	-10	-25	Limbic Lobe	Parahippocampal Gyrus	BA 28	46
Left	-5	-50	5	Limbic Lobe	Posterior Cingulate	BA 29	47
Right	5	-50	5	Limbic Lobe	Posterior Cingulate	BA 29	48
Left	-15	-60	5	Limbic Lobe	Posterior Cingulate	BA 30	49
Left	-5	20	20	Limbic Lobe	Anterior Cingulate	BA 33	50
Right	0	20	20	Limbic Lobe	Anterior Cingulate	BA 33	51
Right	15	0	-20	Limbic Lobe	Parahippocampal Gyrus	BA 34	52
Left	-15	0	-20	Limbic Lobe	Parahippocampal Gyrus	BA 34	53
Left	-20	-25	-20	Limbic Lobe	Parahippocampal Gyrus	BA 35	54
Right	30	-25	-25	Limbic Lobe	Parahippocampal Gyrus	BA 35	55
Right	25	-25	-20	Limbic Lobe	Parahippocampal Gyrus	BA 35	56
Left	-30	-30	-25	Limbic Lobe	Parahippocampal Gyrus	BA 36	57
Right	-5	-40	25	Limbic Lobe	Posterior Cingulate	BA 23	58
Left	-45	-20	-30	Temporal Lobe	Fusiform Gyrus	BA 20	59
Left	-60	-20	-15	Temporal Lobe	Middle Temporal Gyrus	BA 21	60
Right	60	-15	-15	Temporal Lobe	Middle Temporal Gyrus	BA 21	61
Left	-45	-55	-15	Temporal Lobe	Fusiform Gyrus	BA 37	62
Right	45	-55	-15	Temporal Lobe	Fusiform Gyrus	BA 37	63
Left	-40	15	-30	Temporal Lobe	Superior Temporal Gyrus	BA 38	64
Right	40	15	-30	Temporal Lobe	Superior Temporal Gyrus	BA 38	65
Right	45	-65	25	Temporal	Middle Temporal Gyrus	BA 39	66

				Lobe				
Left	-45	-65	25	Temporal Lobe	Middle Temporal Gyrus	BA 39		67
Left	-45	-30	10	Temporal Lobe	Transverse Gyrus	Temporal BA 41		68
Right	55	-20	5	Temporal Lobe	Superior Temporal Gyrus	BA 41		69
Left	-55	-25	5	Temporal Lobe	Superior Temporal Gyrus	BA 41		70
Right	45	-30	10	Temporal Lobe	Transverse Gyrus	Temporal BA 41		71
Left	-60	-10	15	Temporal Lobe	Transverse Gyrus	Temporal BA 42		72
Left	-60	-25	10	Temporal Lobe	Superior Temporal Gyrus	BA 42		73
Right	60	-10	15	Temporal Lobe	Transverse Gyrus	Temporal BA 42		74
Right	65	-25	10	Temporal Lobe	Superior Temporal Gyrus	BA 42		75
Right	15	-85	0	Occipital Lobe	Lingual Gyrus	BA 17		76
Right	10	-90	0	Occipital Lobe	Lingual Gyrus	BA 17		77
Left	-10	-90	0	Occipital Lobe	Lingual Gyrus	BA 17		78
Left	-15	-85	0	Occipital Lobe	Lingual Gyrus	BA 17		79
Left	-25	-75	10	Occipital Lobe	Cuneus	BA 30		80
Right	10	-60	5	Occipital Lobe	Cuneus	BA 30		81
Right	25	-75	10	Occipital Lobe	Cuneus	BA 30		82
Right	40	-5	10	Sub-lobar	Insula	BA 13		83
Left	-40	-10	10	Sub-lobar	Insula	BA 13		84