

	Habitual Sleep Normoxia	Habitual Sleep Hypoxia	Sleep restriction Normoxia	Sleep restriction Hypoxia	Pearson coefficient	Corrected p
	NASA TLX	NASA TLX	NASA TLX	NASA TLX		
Heart rate	-0.10	-0.13	-0.10	-0.05		
HRV_SDNN	0.31	0.18	-0.29	0.05		
HRV_RMSSD	0.38	0.22	-0.23	-0.07		
HRV_PNN50	0.23	0.22	0.26	0.07		
HRV_CVI	0.28	0.21	0.33	0.21		
HRV_HF _n	0.09	0.17	-0.08	-0.13		
HRV_VLF	0.21	0.16	0.01	0.16		
HRV_ShanEn	-0.07	-0.01	0.08	-0.21		
HRV_SampEn	-0.01	0.07	0.01	-0.09		
EDA_Tonic	-0.31	-0.36	-0.57	-0.48		
Breathing rate	0.26	0.27	0.27	-0.22		
Breathing variability (LF _n)	0.09	0.09	0.26	-0.16		
Breathing variability (HF _n)	0.13	-0.18	-0.27	0.11		
Mean pupilar size (r)	0.36	0.07	0.13	-0.24		
Blinks number	0.41	0.39	0.29	0.21		
Blinks duration	0.31	0.49	0.21	0.31		
Pupil Phasic size (r)	-0.07	-0.14	0.12	-0.06		
PDR Amplitude (Z)	-0.32	-0.39	-0.21	-0.11		
PDR Latency	0.62	0.26	0.18	0.19		
PDR Time return	0.11	-0.19	-0.11	-0.15		

	R	p
	> 0.60	< 0.0001
	> 0.50	< 0.001
	> 0.40	< 0.01
	> 0.30	< 0.02
	> 0.20	< 0.05

Figure S1. Correlations analysis between physiological parameters and NASA TLX score during the 4 experimental conditions. Only parameters significantly correlated ($r > |0.20|$, $p < 0.05$) with MATB-II tracking performance (the RMSD value) in habitual sleep and normoxia are presented.