Variable	Chatting	Drinking	Yawning	Going to the toilet	Using		Leaving the
					smart	Smoking	post without
					phones		permission
Duty, n (%)							
Navigating	78(32.2%)	47(19.4%)	9(3.7%)	5(2.1%)	28(11.6%)	20(8.3%)	55(22.7%)
officer	, ,	,		- ()			,
Sailor	121(54.5%)	35(15.8%)	40(18.0%)	7(3.2%)	3(1.4%)	11(5.0%)	5(2.3%)
P	0.002	0.185	< 0.001	0.564	< 0.001	0.106	< 0.001
Navigation							
direction, n (%)							
Upstream	95(45.0%)	40(19.0%)	17(8.1%)	8(3.8%)	14(6.6%)	17(8.1%)	20(9.5%)
Downstream	104(41.1%)	42(16.6%)	32(12.6%)	4(1.6%)	17(6.7%)	14(5.5%)	40(15.8%)
P	0.523	0.825	0.032	0.248	0.590	0.590	0.010
Navigation							
scenario, n (%)							
Without tasks	93(36.8%)	50(19.8%)	30(11.9%)	12(4.7%)	20(7.9%)	21(8.3%)	27(10.7%)
Perform tasks	106(50.2%)	32(15.2%)	19(9.0%)	0(0%)	11(5.2%)	10(4.7%)	33(15.6%)
P	0.357	0.047	0.116		0.106	0.048	0.439
Day-night, n							
(%)							
Daytime	135(44.4%)	58(19.1%)	23(7.6%)	9(3.0%)	27(8.9%)	14(4.6%)	38(12.5%)
Nighttime	64(40.0%)	24(15.0%)	26(16.3%)	3(1.9%)	4(2.5%)	17(10.6%)	22(13.8%)
P	< 0.001	< 0.001	0.668	0.083	< 0.001	0.590	0.039
Vision, n (%)							
Fine	146(48.5%)	50(16.6%)	41(13.6%)	8(2.7%)	16(5.3%)	16(5.3%)	24(8.0%)
Presbyopia	53(32.5%)	32(19.6%)	8(4.9%)	4(2.5%)	15(9.2%)	15(9.2%)	36(22.1%)
P	< 0.001	< 0.001	< 0.001	0.248	0.140	0.002	< 0.001
Young	121(54.5%)	35(15.8%)	40(18.0%)	7(3.2%)	3(1.4%)	11(5.0%)	5(2.3%)
Middle age	8(32.2%)	47(19.4%)	9(3.7%)	5(2.1%)	28(11.6%)	20(8.3%)	55(22.7%)
P	0.002	0.185	< 0.001	0.564	< 0.001	0.106	< 0.001
Health							
condition, n							
(%)							
Better	54(35.5%)	27(17.8%)	5(3.3%)	4(2.6%)	13(8.6%)	15(9.9%)	34(22.4%)
Average	29(30.5%)	21(22.1%)	4(4.2%)	1(1.1%)	14(14.7%)	5(5.3%)	21(22.1%)
Fine	116(53.5%)	34(15.7%)	40(18.4%)	7(3.2%)	4(1.8%)	11(5.1%)	5(2.3%)
P	< 0.001	0.213	< 0.001	0.105	0.053	0.086	< 0.001