Comparison of vestibular input statistics during natural activities and while piloting an aircraft

Running title: Vestibular inputs in natural activities and while piloting

Authors: Roques, A.^{1,2,3}, James, Y³, Bargiotas, I.¹, Keriven Serpollet D.¹, Vayatis, N.¹, Vidal, P.-P. ^{4,1}*.

¹Centre Borelli, CNRS, SSA, INSERM, Université Paris Saclay, ENS Paris Saclay, Université Paris Cité, 75006 Paris, France

²Laboratoire GBCM, EA7528, CNAM, Hesam Université, 75003 Paris, France

³Thales AVS, 95520 Osny, France

⁴Institute of Information and Control, Hangzhou Dianzi University, Hangzhou, China

Table 1: Summary of pilot information

Table 1: Seven professional pilots participated in the manual navigation task. They came from different backgrounds and had different levels of expertise.

Pilot	Age	Real flight experi-	Last 12	Simulator experi-	Background
		ence (h)	months (h)	ence (h)	
1	41	2100	190	26	Marine police, army
2	36	2450	230	25	Army
3	47	1840	200	28	Air Force
4	34	300	120	30	Police
5	34	1200	200	7	Civil aviation, police
6	37	965	120	90	Civil aviation, helicopters
7	48	5000	54	450	Civil aviation, helicopters