

**Supplemental Material Table S1**

**Table S1.** The number of GPS (GPL400 and F3G) and time-depth recorders (M190 and ORI400) that we used in each colony on Chinstrap and Gentoo penguins.

	Ardley Island		Narębski point	
	Chinstrap	Gentoo	Chinstrap	Gentoo
GPL400	8	8	3	5
F3G and M190	5	-	8	11
F3G and ORI400	-	4	8	4