## foieGras an R package for rapid quality control, behavioural estimation and simulation of animal track data 2 Ian D. Jonsen<sup>1,\*</sup>, Toby A. Patterson<sup>2</sup>, and <sup>2</sup> 3 <sup>1</sup>Department of Biological Sciences, Macquarie University, Sydney, NSW, Australia <sup>2</sup>CSIRO Ocean and Atmosphere Research, Hobart, TAX, Australia \*Corresponding author. Email: ian.jonsen@mq.edu.au Abstract $\mathrm{text}...$ 1: Introduction text here... 2: foieGras Overview text here... 4: SSM fitting text here... 5: Visualisation and Diagnostics text here... 6: Behavioural Estimation text here... 7: Extending the Behavioural Model text here... 8: Simulation text here...

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