

## Supplementary Material

### **Seasonal population dynamics and movement patterns of a critically endangered, cave-dwelling bat, *Miniopterus orianae bassanii***

*Emmi van Harten*<sup>A,B,\*</sup>, *Ruth Lawrence*<sup>C</sup>, *Lindy F. Lumsden*<sup>D</sup>, *Terry Reardon*<sup>E</sup>, *Andrew F. Bennett*<sup>A</sup> and *Thomas A. A. Prowse*<sup>F</sup>

<sup>A</sup>Department of Ecology, Environment and Evolution, Research Centre for Future Landscapes, La Trobe University, Bundoora, Vic. 3086, Australia

<sup>B</sup>Wildlife Conservation and Science, Zoos Victoria, Parkville, Vic. 3052, Australia

<sup>C</sup>Department of Geography, University of Melbourne, Parkville, Vic. 3010, Australia

<sup>D</sup>Arthur Rylah Institute for Environmental Research, Department of Environment, Land, Water and Planning, Heidelberg, Vic. 3084, Australia

<sup>E</sup>South Australian Museum, Adelaide, SA 5001, Australia

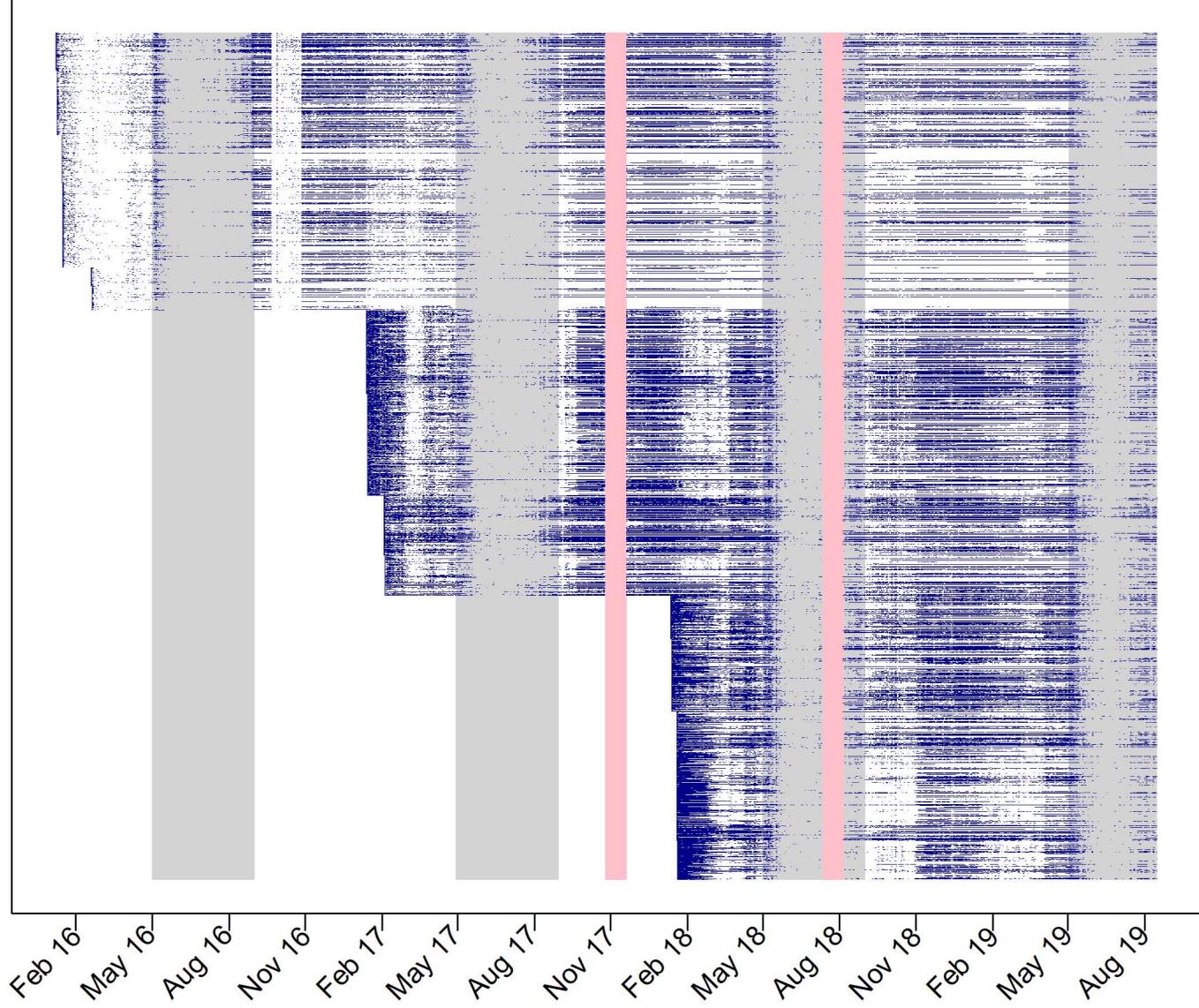
<sup>F</sup>School of Biological Sciences, The University of Adelaide, Adelaide, SA 5005, Australia

\*Correspondence to: Email: [e.vharten@latrobe.edu.au](mailto:e.vharten@latrobe.edu.au)

1 **Fig. S1.** Capture-resight histories of all PIT-tagged individuals at Bat Cave over the study period.  
2 Each of the 2,966 tagged bats is represented as an individual row on the y-axis, with initial capture  
3 and subsequent daily detections/presence at Bat Cave marked in blue. Missing data due to power  
4 outages are marked in pink. High noise levels (signal interference) affected detection success prior  
5 to May 2016 and during October-November 2016 (van Harten *et al.* 2019). Grey shading indicates  
6 the winter months May to August, when little bat activity was expected.

7 **Fig. S2.** Capture-resight histories of all PIT-tagged individuals at Glencoe over the study period.  
8 Each of the 2,966 tagged bats is represented as an individual row on the y-axis, with daily  
9 detections/presence at Glencoe marked in blue. Pink shading indicates the time prior to the Glencoe  
10 system being permanently installed and missing data due to power outages. Grey shading indicates  
11 the winter months of May to August, when little bat activity was expected.

Capture-resight histories for individual bats (n = 2966)



Capture-resight histories for individual bats (n = 2966)

