

Supplementary Materials

Stable seasonal migration patterns in giant pandas

Meng Wang^{1,2}, Yong-Gang Nie¹, Ronald R. Swaisgood³, Wei Wei¹, Wen-Liang Zhou¹,

Ze-Jun Zhang¹, Gui-Ming Wang⁴, Fu-Wen Wei^{1,2,*}

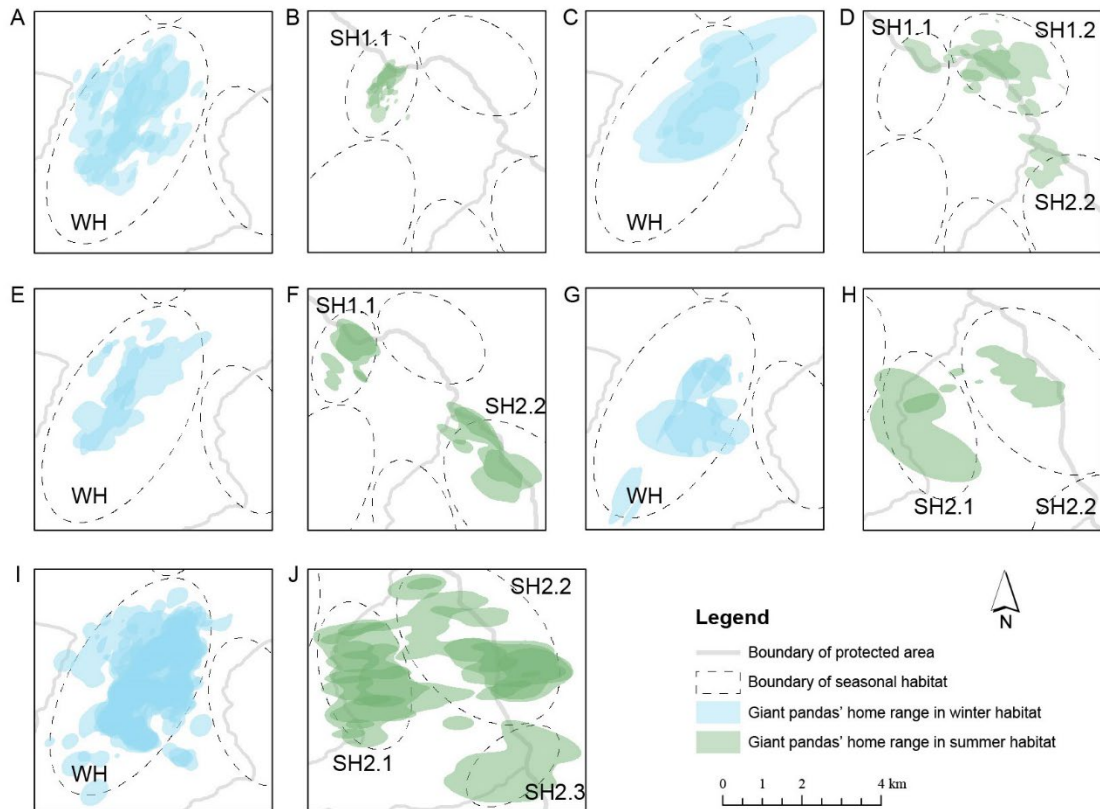
¹Key Laboratory of Animal Ecology and Conservation Biology, Institute of Zoology, Chinese Academy of Sciences, Beijing 100101, China

²University of Chinese Academy of Sciences, Beijing 100049, China

³Giant Panda Research, San Diego Zoo Institute for Conservation Research, Escondido, California 92027, USA

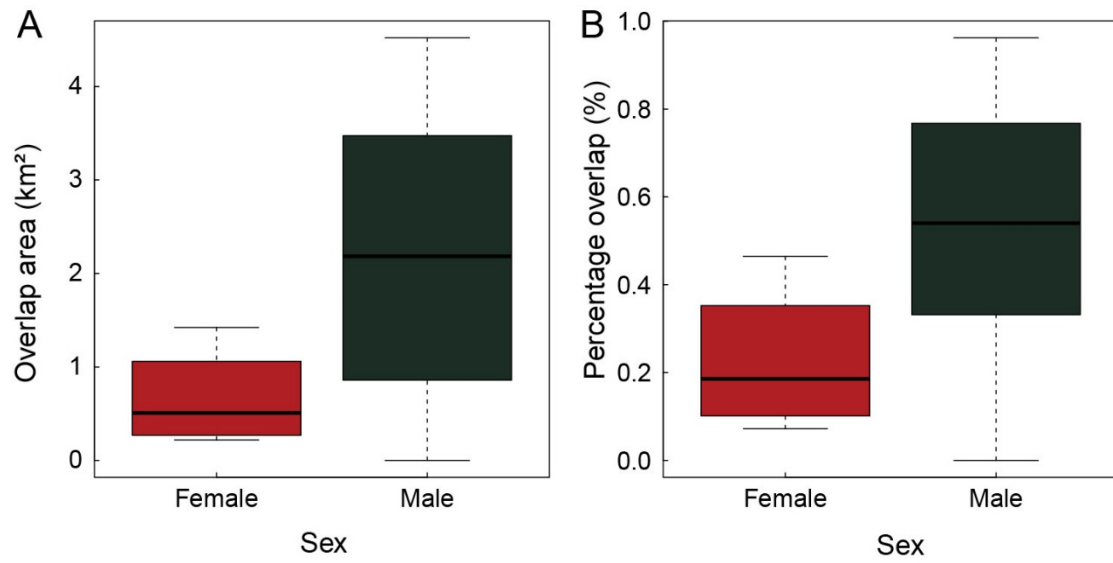
⁴Department of Wildlife, Fisheries and Aquaculture, Mississippi State University, Mississippi 39762, USA

*Corresponding author, E-mail: weifw@ioz.ac.cn



Supplementary Figure S1 Seasonal home range overlap in winter and summer habitat, based on five GPS-collared giant pandas

A-B: Home range overlap in winter and summer habitat for Cancan. C-D: Home range overlap in winter and summer habitat for Lili. E-F: Home range overlap in winter and summer habitat for Qiangqiang. G-H: Home range overlap in winter and summer habitat for Niuniu. I-J: Home range overlap in winter and summer habitat for Xiyue. SH: summer habitat; WH: winter habitat; numerals indicate different habitat patches and sub-patches.



Supplementary Figure S2 Differences in A: home range overlap area and B: percentage of home range overlap between male and female individuals

Supplementary Table S1 Age, sex, and entire monitoring year of six giant pandas

Individuals	Sex	Year											
		2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Cancan	Male	N/A	12	13	N/A	15	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Lili	Male	N/A	12	13	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Qiangqiang	Male	N/A	N/A	N/A	N/A	7	6	N/A	N/A	N/A	N/A	N/A	N/A
Niuniu	Female	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	14	15
Weiwei	Male	N/A	N/A	N/A	N/A	N/A	11	N/A	N/A	N/A	N/A	N/A	N/A
Xiyue	Male	N/A	4	N/A	N/A	7	8	9	10	N/A	N/A	13	N/A

N/A: Not available.