Something about cetacean heart rates and ballistocardiograms

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Text of abstract

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Keywords: keyword 1; keyword 2; keyword 3

Highlights: These are the highlights.

# 1 Introduction

Here is a citation (Marwick, 2017)

# 2 Background

# 3 Methods

# 4 Results

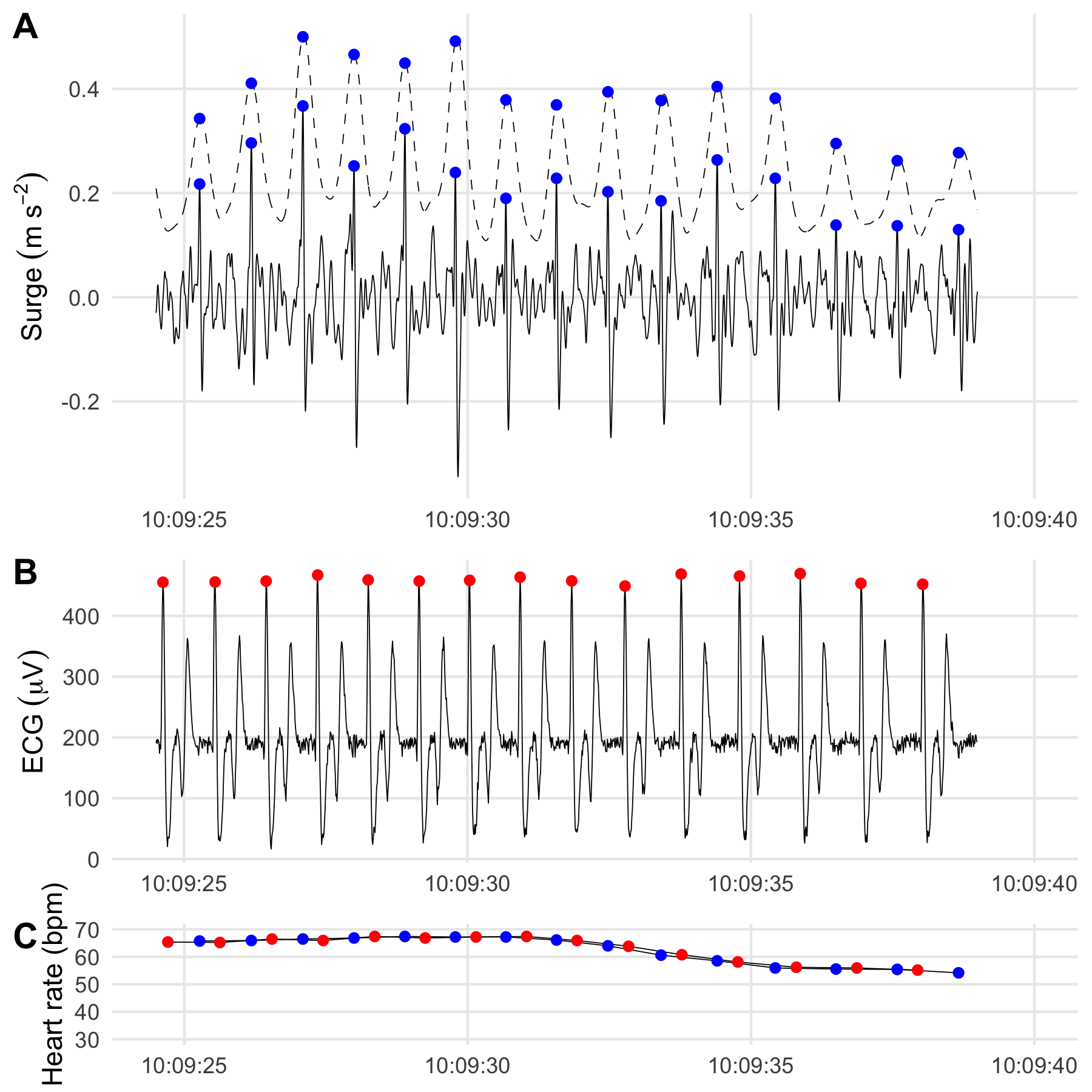


Figure 4.1: A: BCG, B: ECG, C: BPM comparison

#> [1] "0.5% ± 0.3% (mean ± sd))"

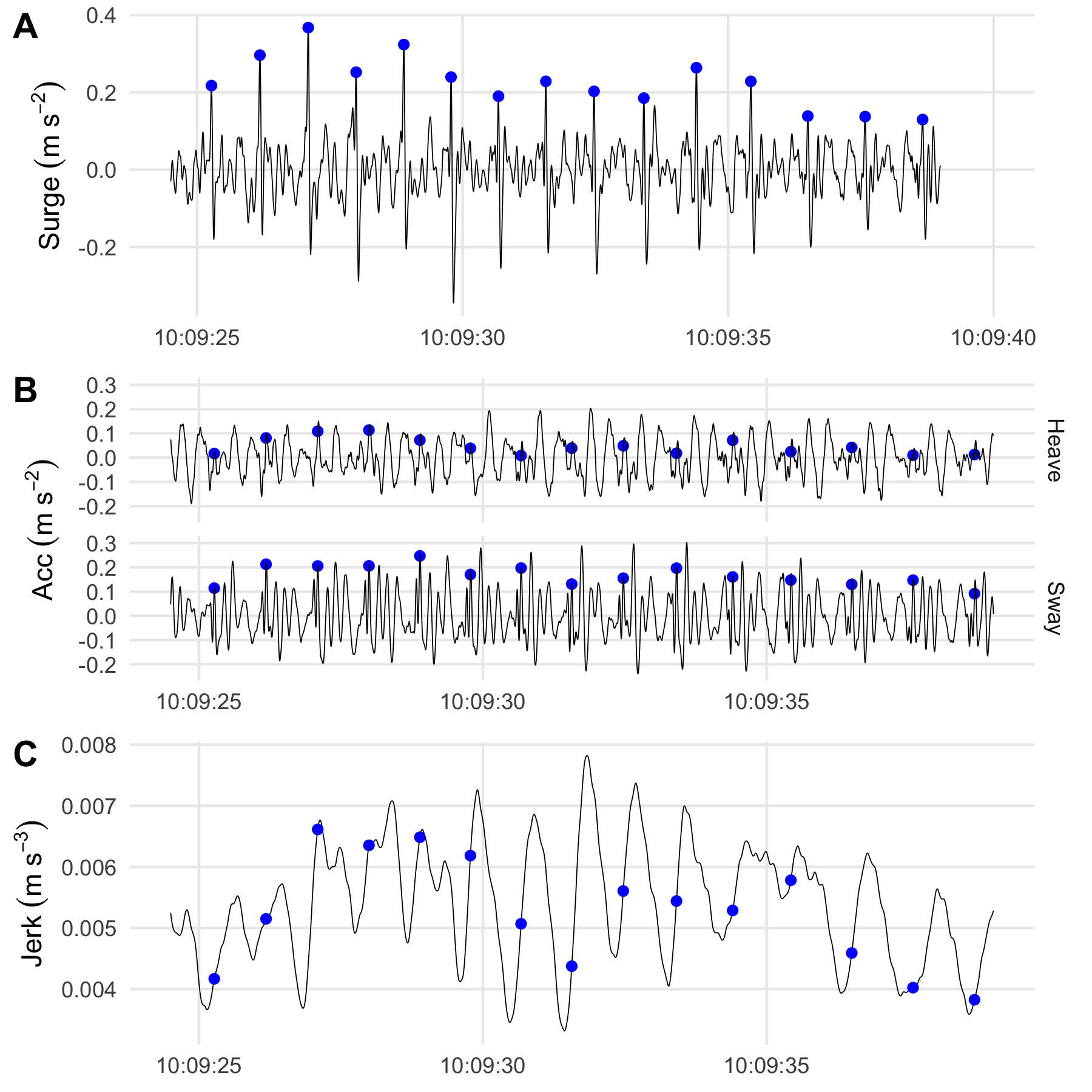


Figure 4.2: A: The BCG signal is clearest in surge (longitudinal axis acceleration). Solid line: surge bandpass filtered to [1.0 25.0] Hz. Dashed line: local range of surge in 0.25 s sliding window (smoothed). Blue dots indicate peak of the BCG I-wave. B: BCG signal is not as strong in heave (dorso-ventral axis) or sway (lateral axis) as in surge. The sway signal is likely due to movement of the chest cavity (see video S1). C: Some, but not all, heart beats are visible as peaks in the norm of the jerk vector.

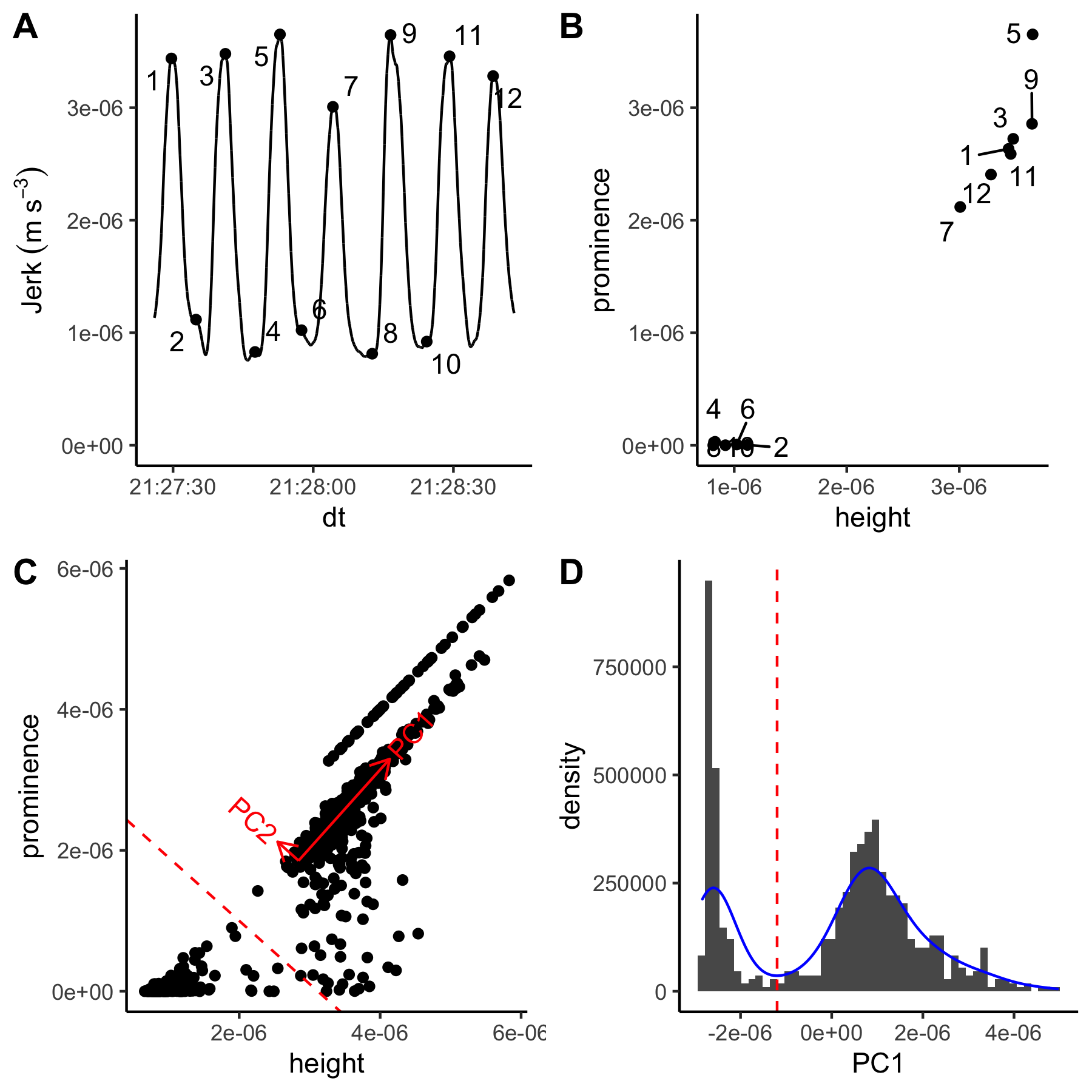


Figure 4.3: Major peak selection procedure for identifying heartbeats. A Even after smoothing, the norm of the jerk vector has peaks that do not correspond to heartbeats (e.g. 2, 4). B In height-prominence space, there are two clear clusters corresponding to valid heartbeats (upper right) and artifacts (lower left). C

Figure 4.1 shows how we can have a caption and cross-reference for a plot.

# 5 Discussion

# 6 Conclusion

# 7 Acknowledgements

# 8 References

Marwick, B., 2017. Computational reproducibility in archaeological research: Basic principles and a case study of their implementation. Journal of Archaeological Method and Theory 24, 424–450. <https://doi.org/10.1007/s10816-015-9272-9>

### 8.0.1 Colophon

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