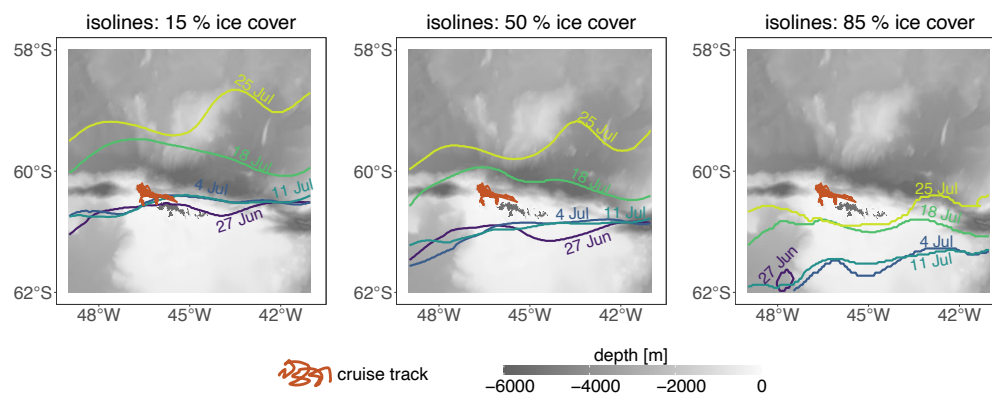
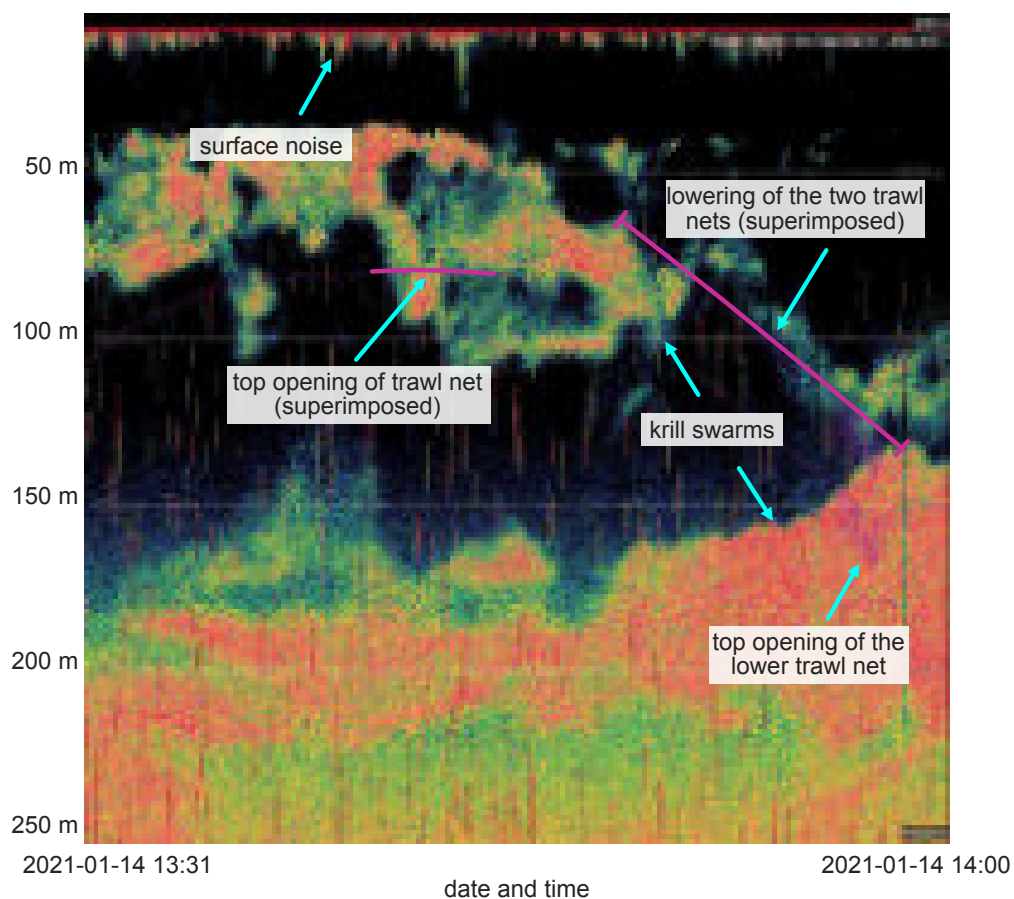
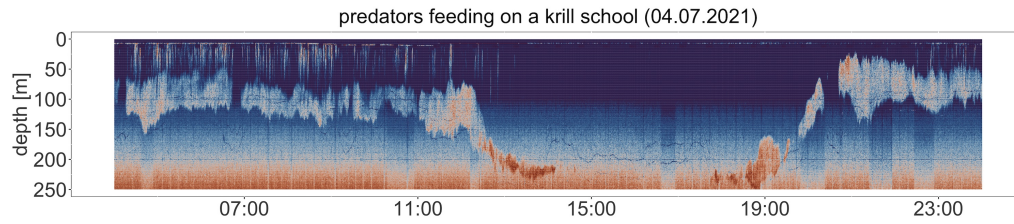




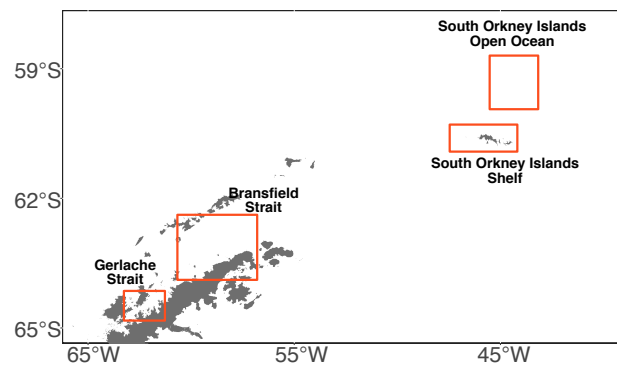
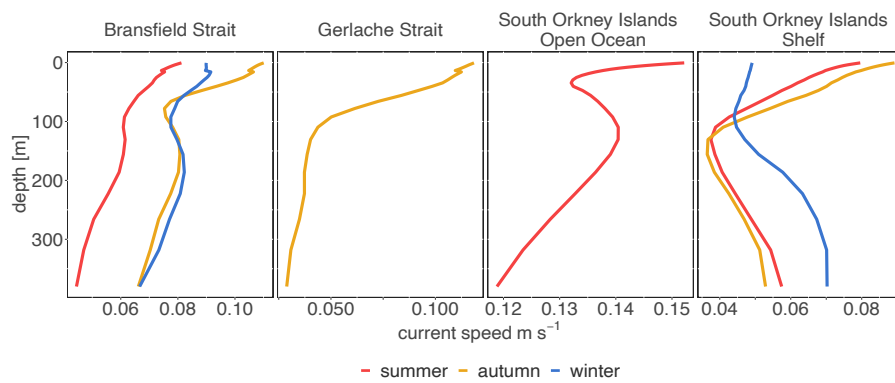
Appendix Figure 1. Cruise track and contour lines for different sea ice concentrations from 25.6.2021 - 28.7.2021 (sea ice data from Copernicus Marine Service, doi: [10.48670/moi-00169](https://doi.org/10.48670/moi-00169)). 15% ice cover is commonly used to define the sea ice edge (e.g. [84]).



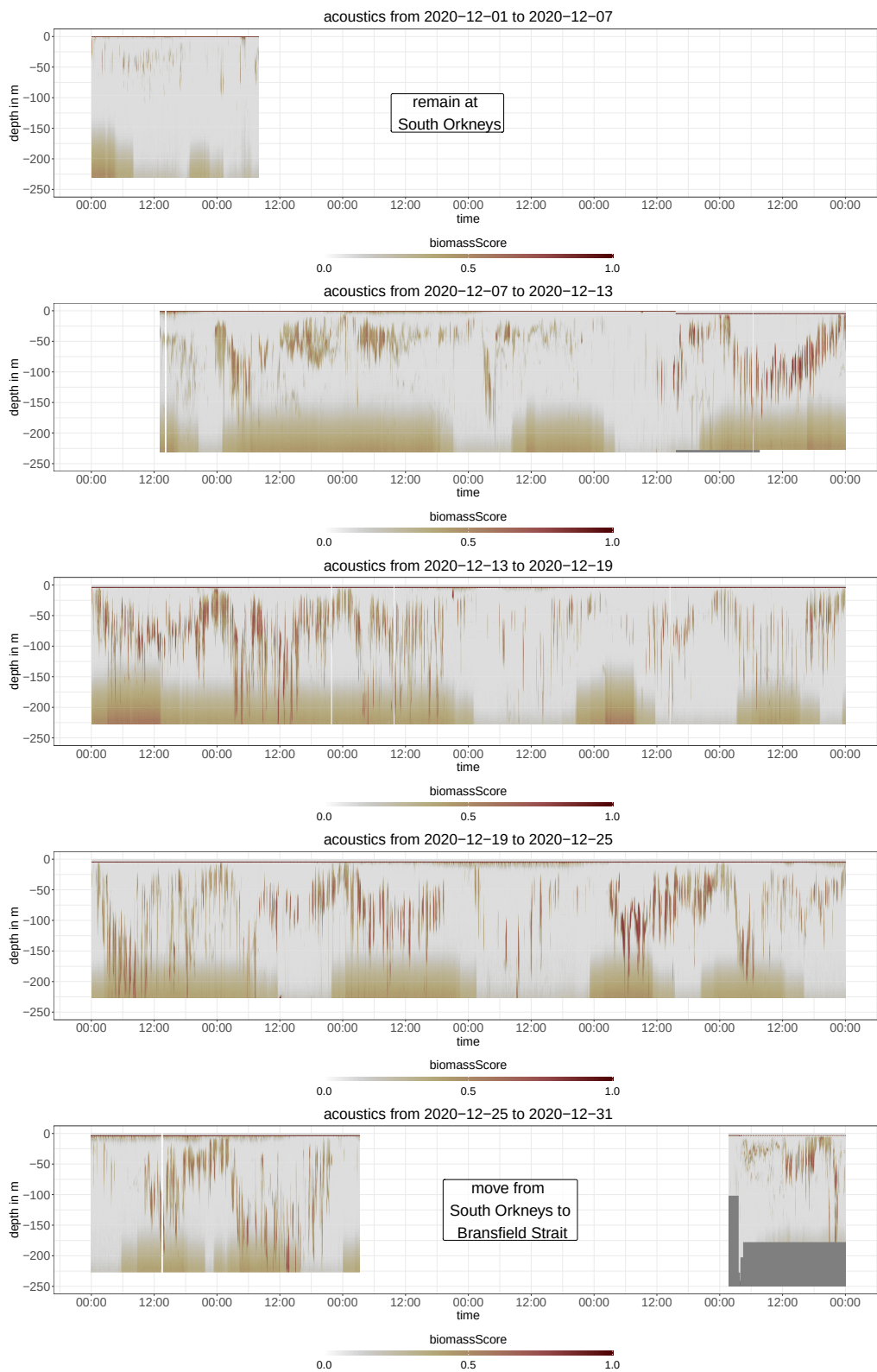
Appendix Figure 2. Raw screenshot recorded onboard the FV *Antarctic Endurance* from 14.01.2021 13:30 local time. Different features visible in the screenshot are labelled. The top ends of the mouths of the two trawl nets are visible as thin purple lines.



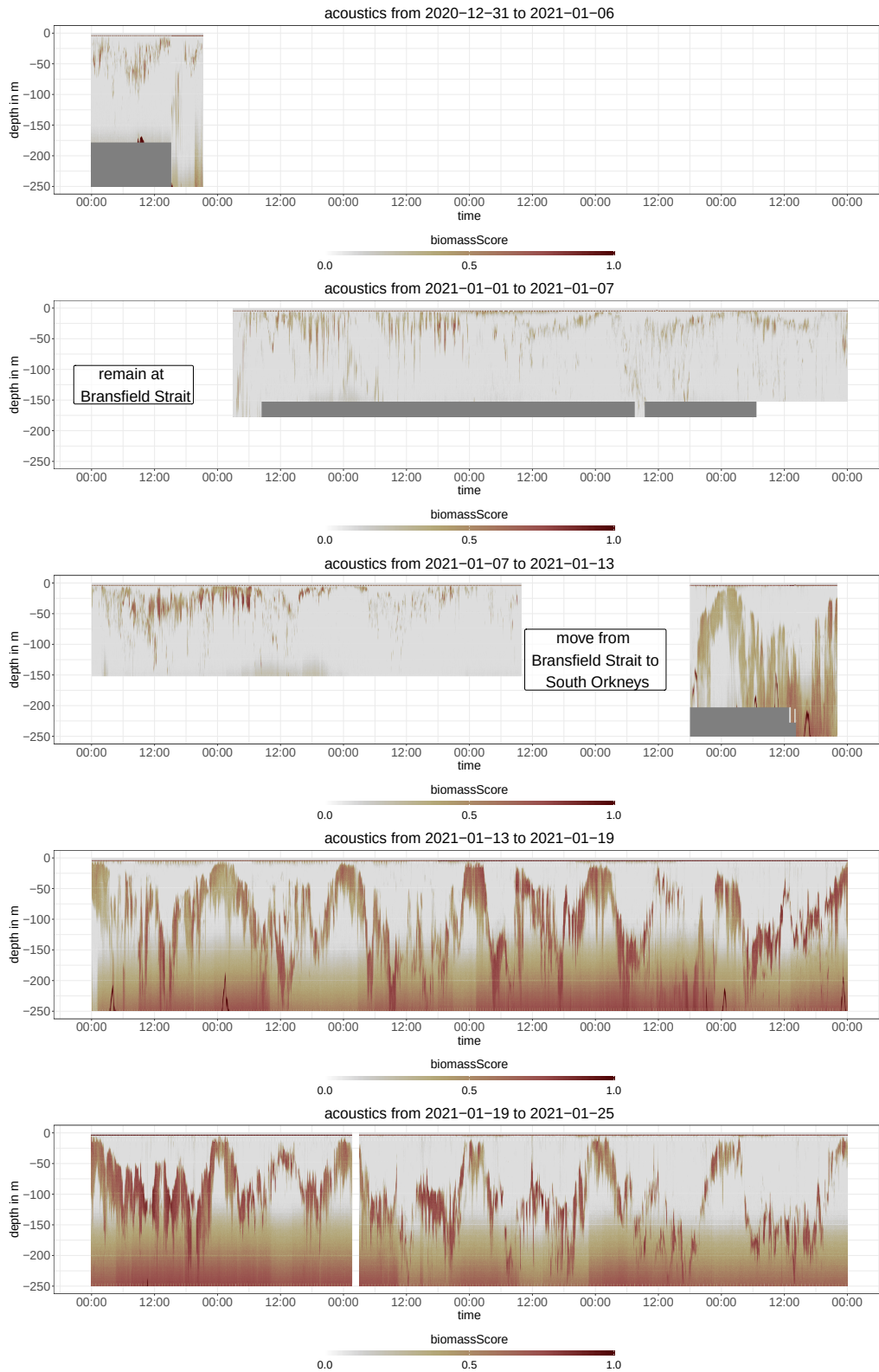
Appendix Figure 3. Data from July 4th at the South Orkney Islands. Predators, visible as distinct streaks emerging from the surface dive and feed on a swarm of krill at 75 m. Their presence is synchronised with the ascent of the krill.



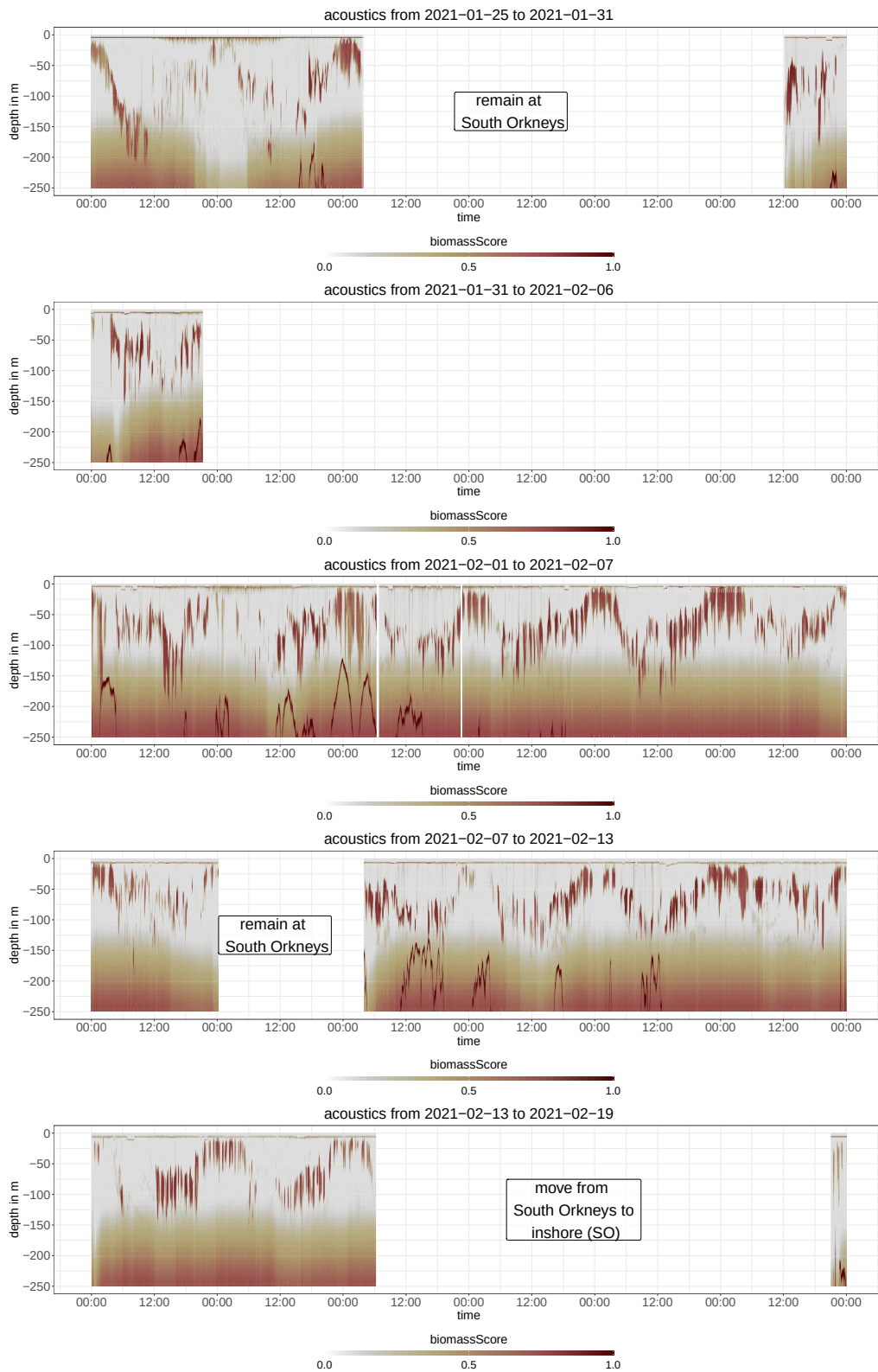
Appendix Figure 4. Top panel: Vertical gradients of current speeds averaged for the time periods the FV *Antarctic Endurance* operated in each of the different regions as shown in Figure 1 (extracted from the Operational Mercator global ocean analysis, 0.083x0.083° resolution, doi: <https://doi.org/10.48670/moi-00016>). Seasons are defined as follows: summer: Dec-Feb; autumn: Mar-May; winter: Jun-Jul. Bottom panel: Region-specific bounding boxes (orange rectangles) used for extracting the velocity data shown in the top panel.



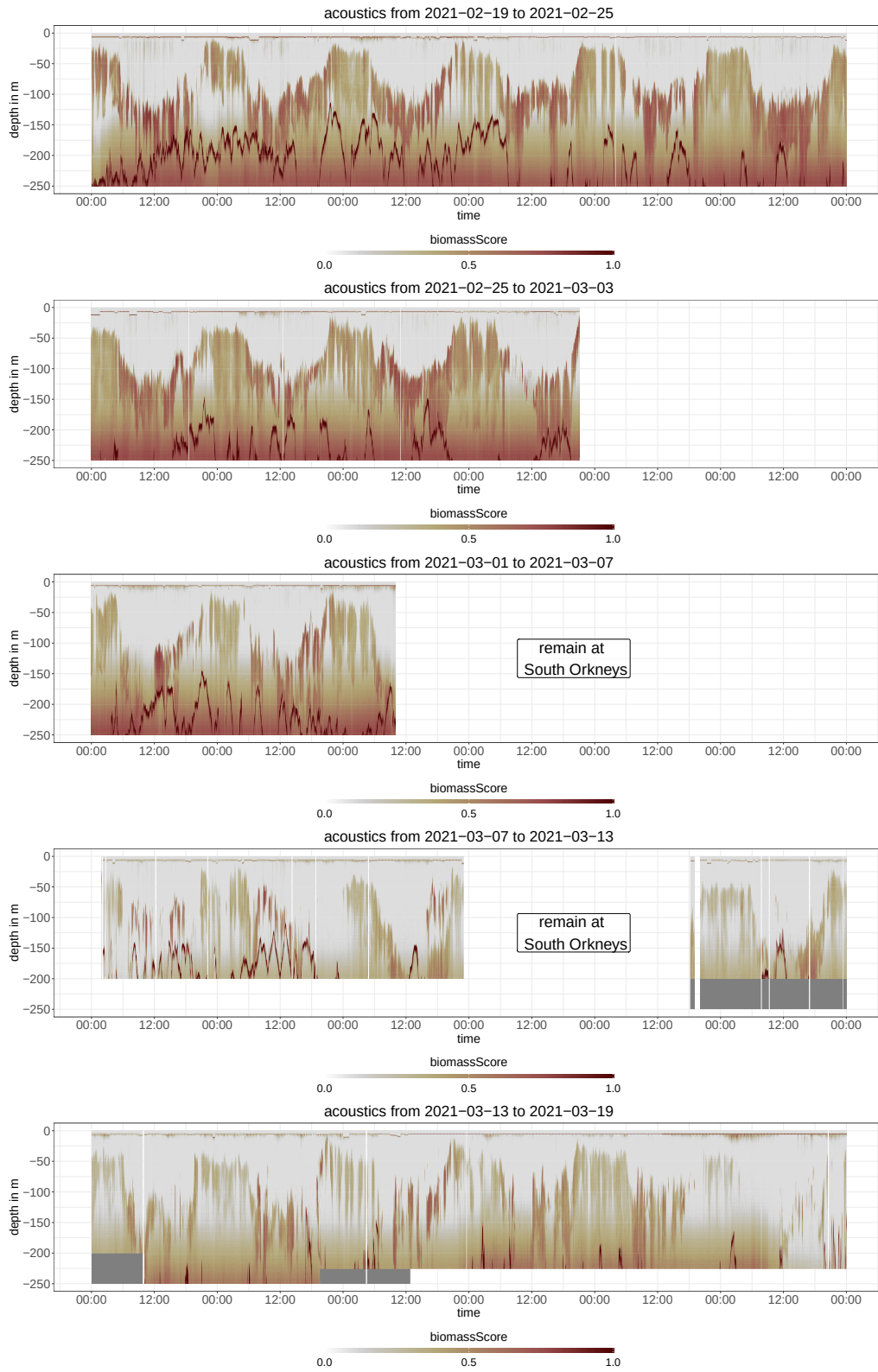
Appendix Figure 5. Visualisation of the entire 8-months dataset: December 2020



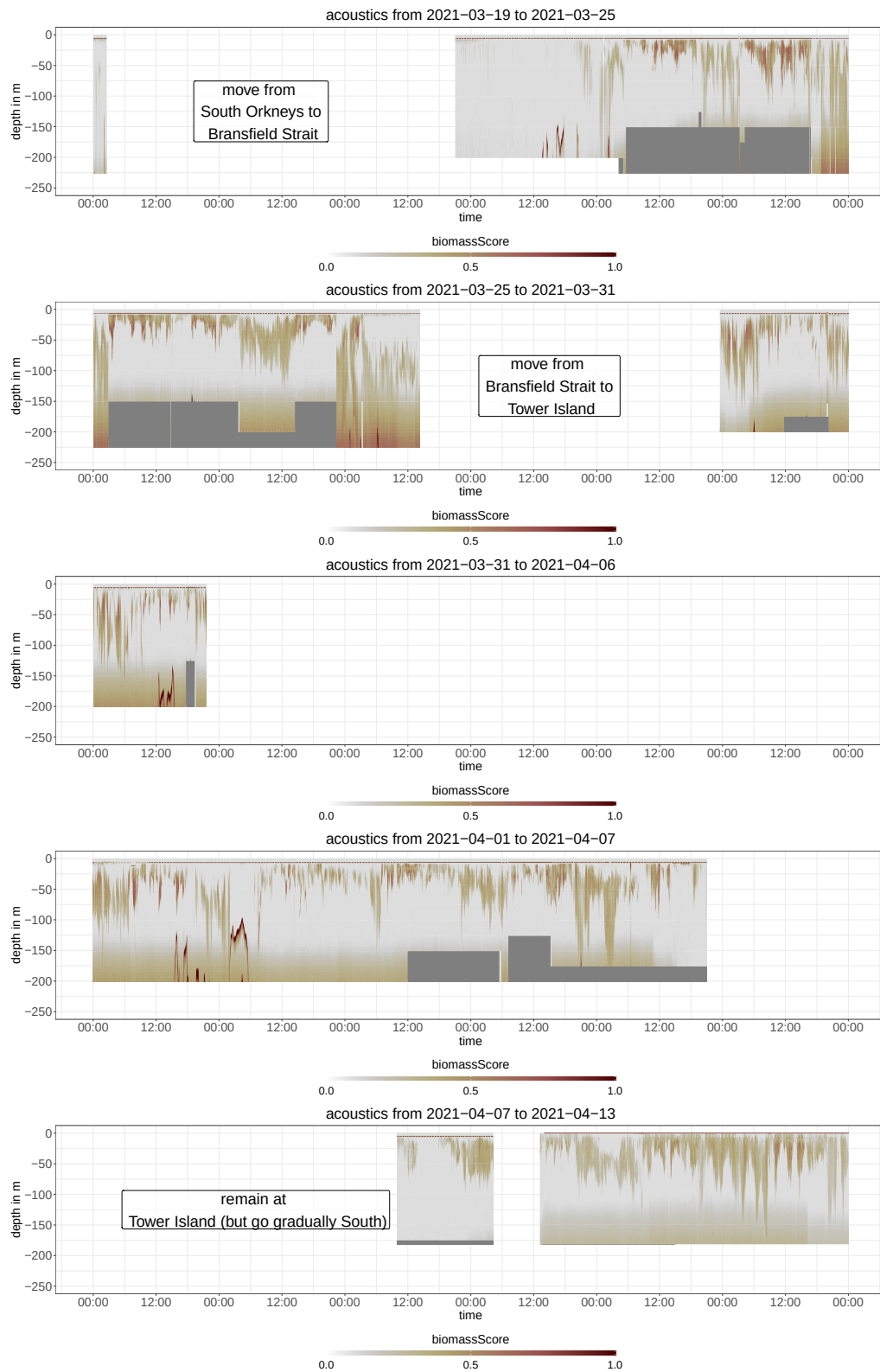
Appendix Figure 6. Visualisation of the entire 8-months dataset: January 2021



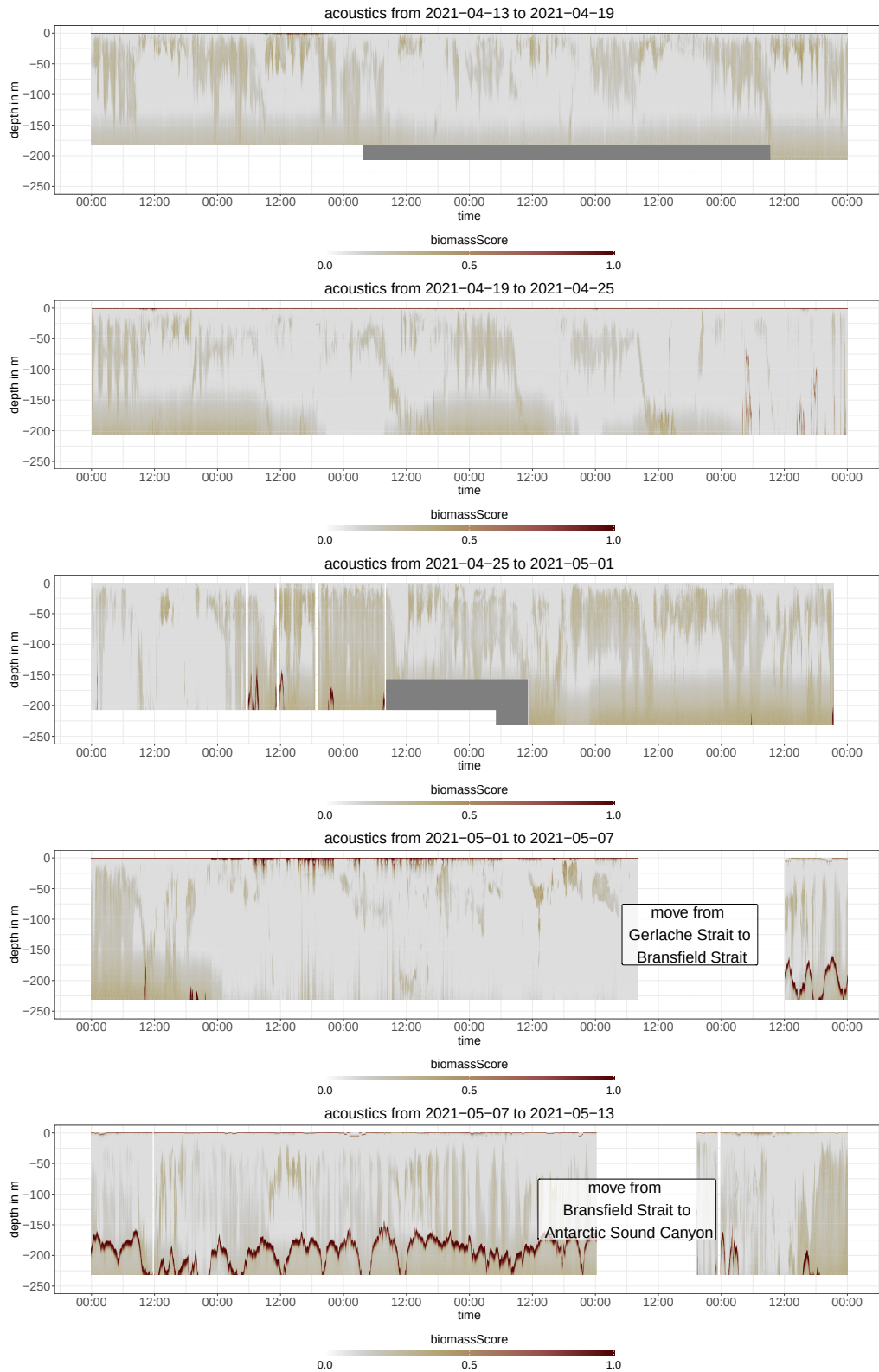
Appendix Figure 7. Visualisation of the entire 8-months dataset: January - February 2021



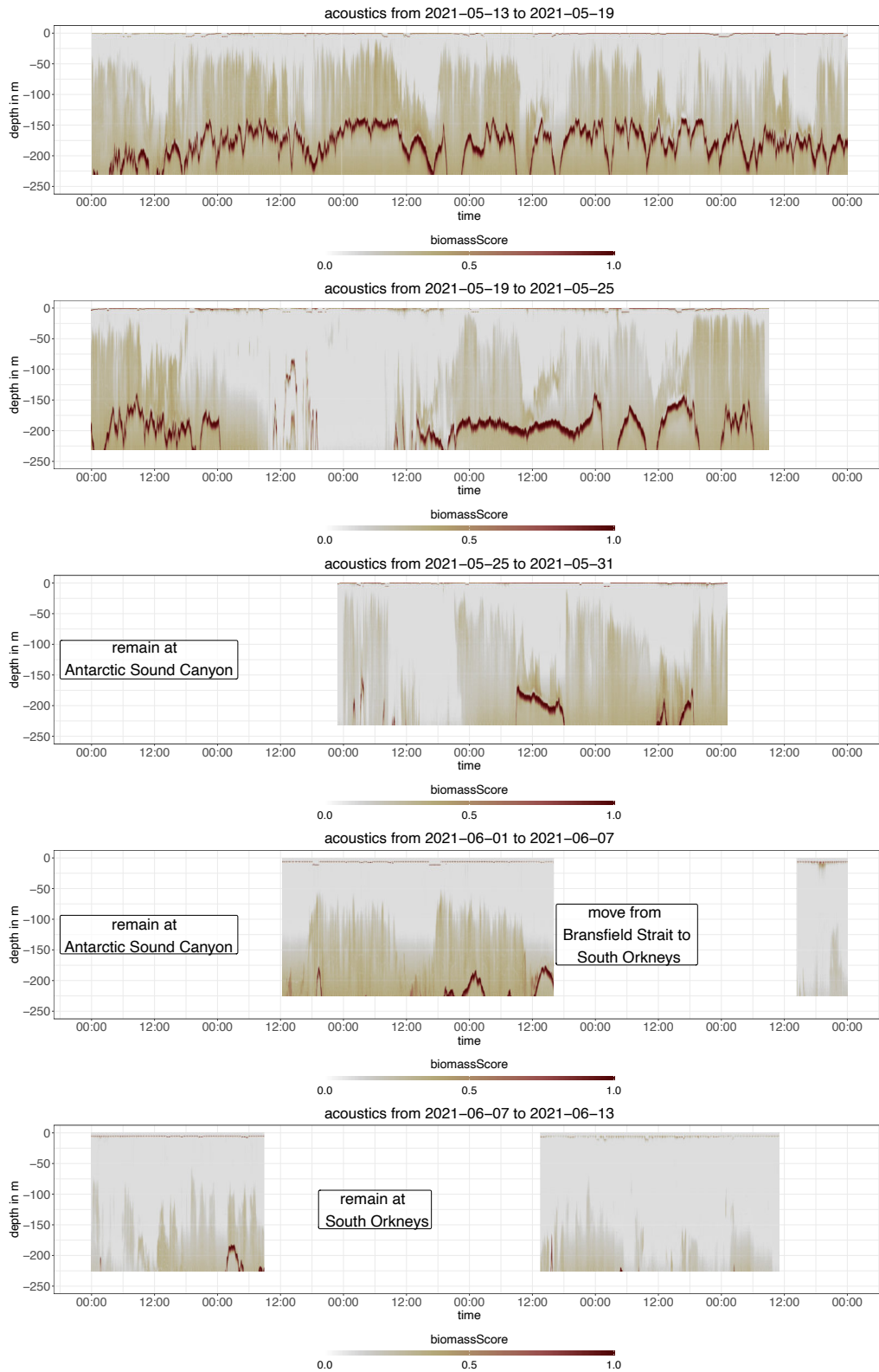
Appendix Figure 8. Visualisation of the entire 8-months dataset: February - March 2021



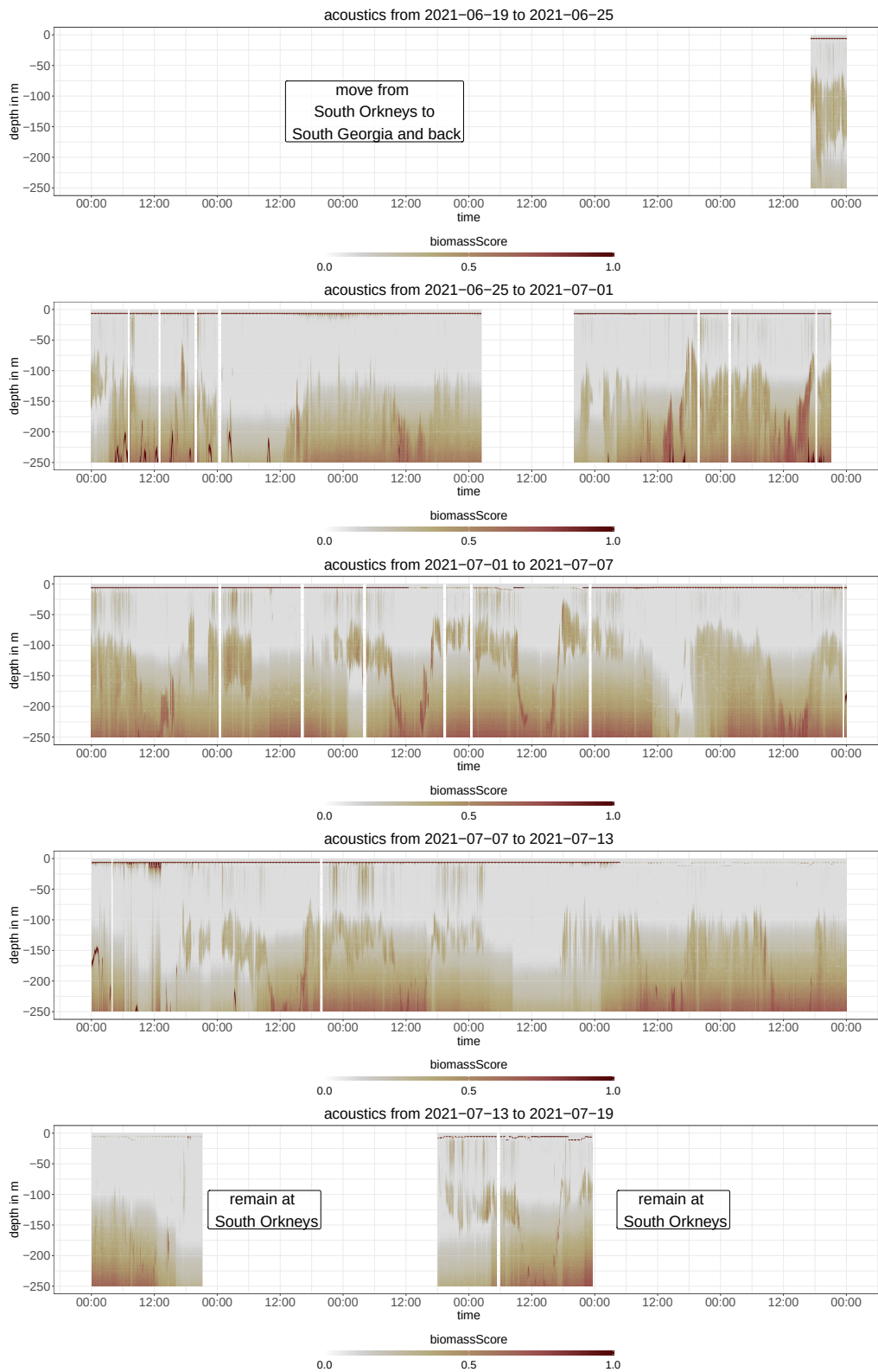
Appendix Figure 9. Visualisation of the entire 8-months dataset: March - April 2021



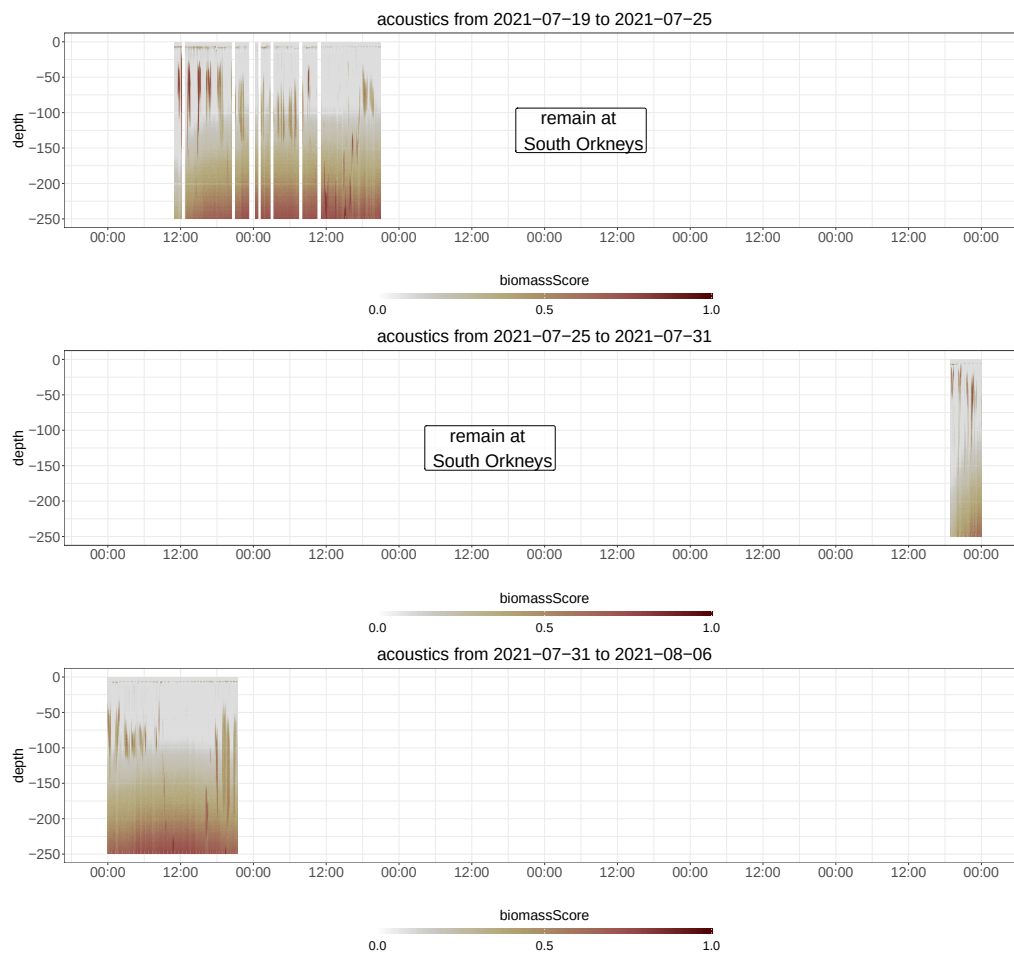
Appendix Figure 10. Visualisation of the entire 8-months dataset: April - May 2021



Appendix Figure 11. Visualisation of the entire 8-months dataset: May - June 2021



Appendix Figure 12. Visualisation of the entire 8-months dataset: June - July 2021



Appendix Figure 13. Visualisation of the entire 8-months dataset: July 2021