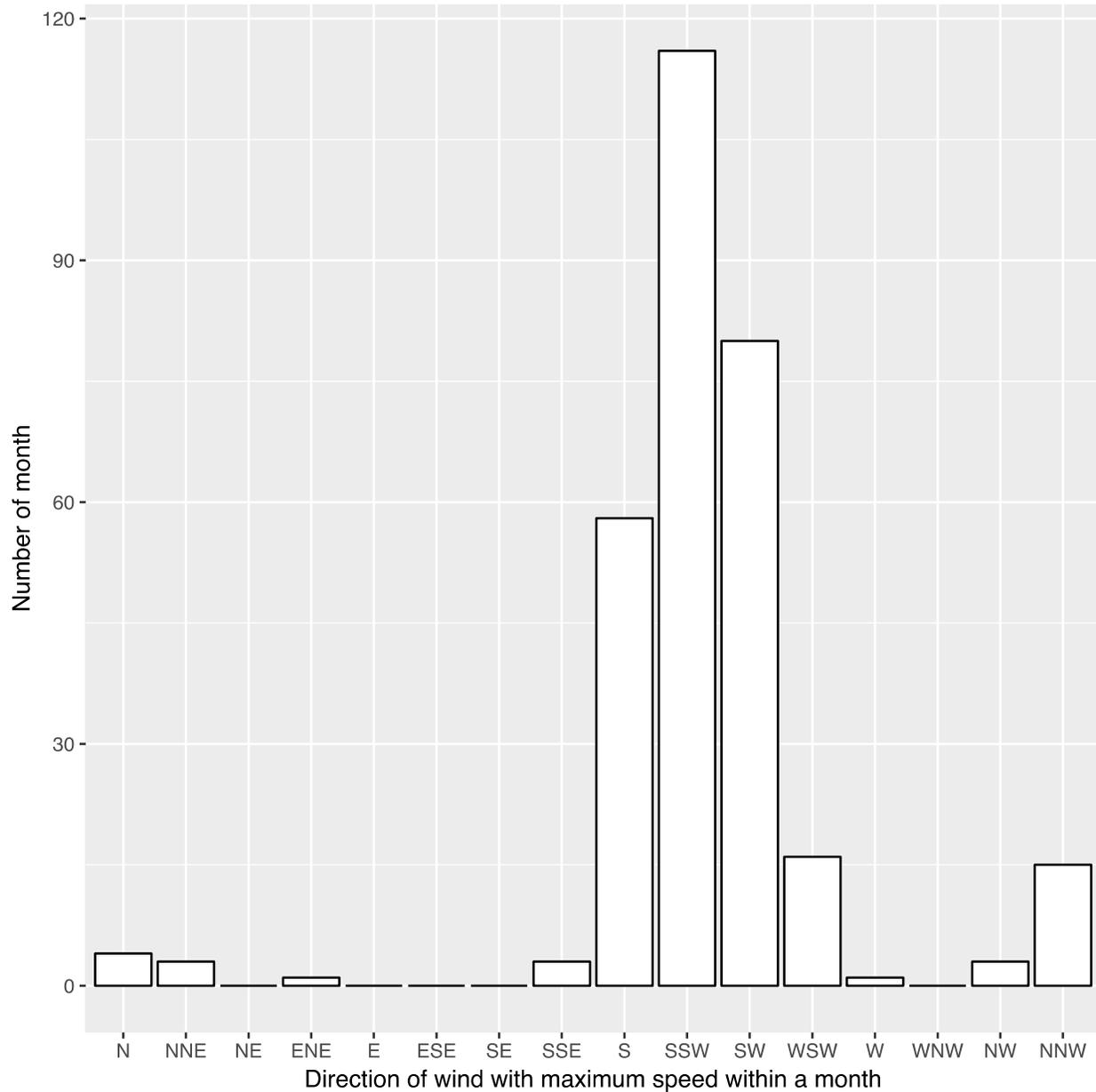


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2
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Figure S1. Frequency distribution of slope aspects of 10 m x 10 m grids in UTCBF.

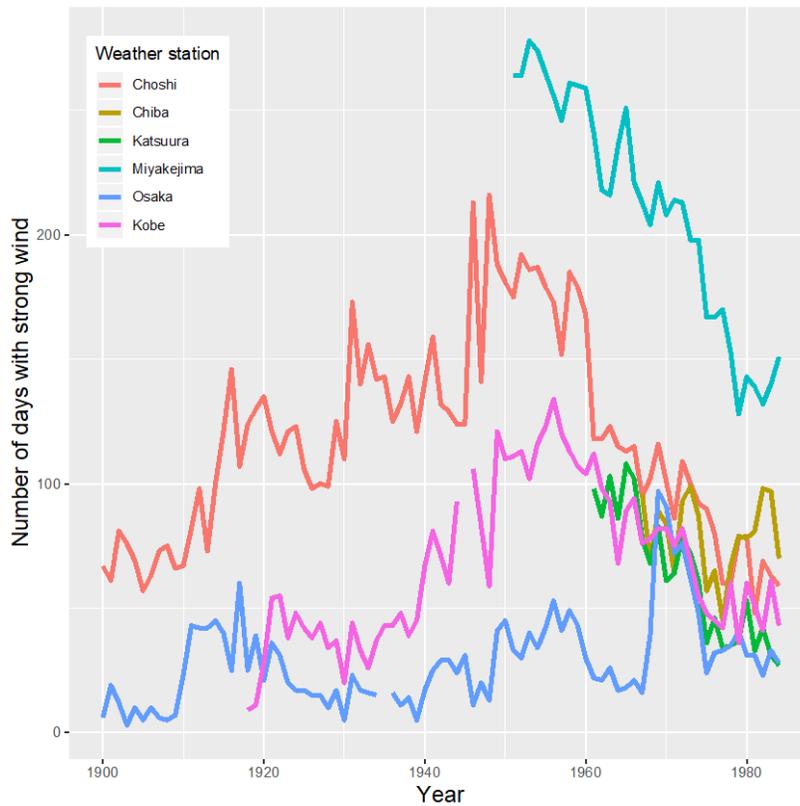


1
 2 **Figure S2.** Frequency distribution of wind direction based on a regularly recorded data in
 3 Katsuura weather station.

4



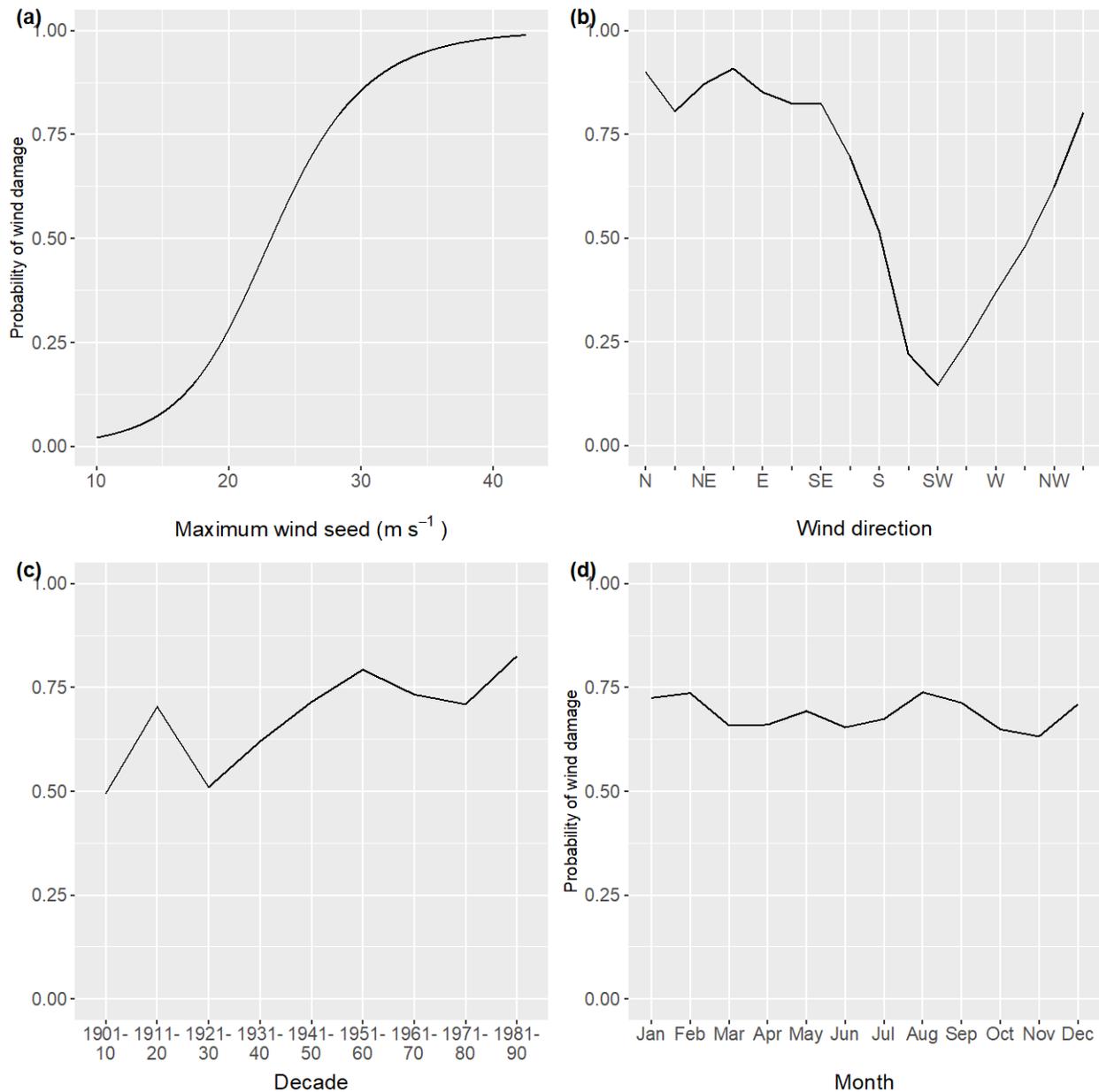
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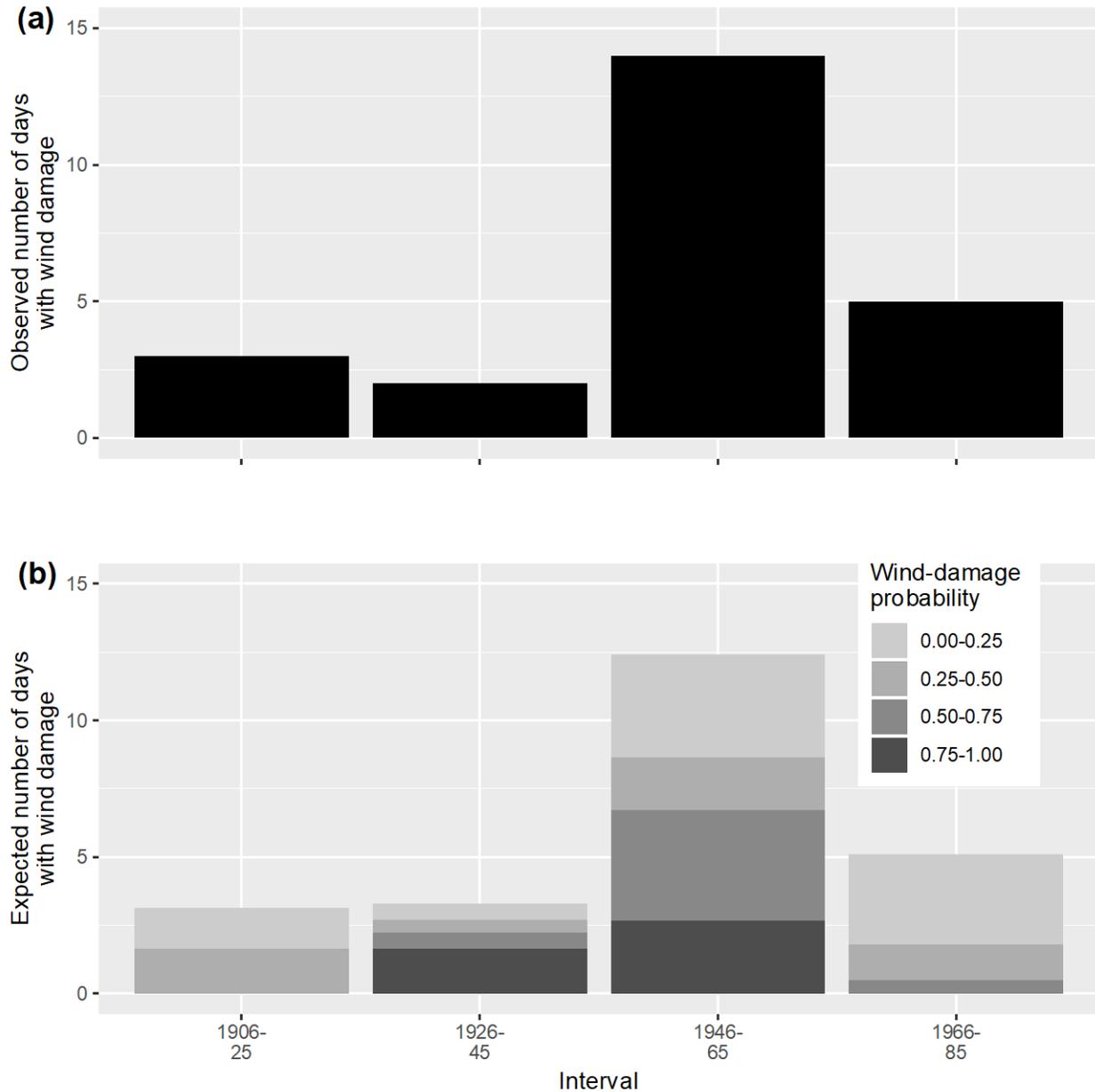
2

3 **Figure S3.** Temporal change in the number of days with maximum wind speed exceeding 10 m s^{-1}
 4 ¹ based on a regularly recorded data in meteorological stations. Four meteorological stations
 5 (Choshi, Osaka, Miyakejima, and Kobe) on Honshu (the biggest island in Japanese archipelago)

1 and on a small island near Honshu can provide longer meteorological data. Meteorological
2 stations on Boso peninsula (Choshi, Chiba, and Katsuura) are relatively near to UTCBF.



3
4 **Figure S4.** Predicted wind-damage probability for UTCBF related to (a) wind speed, (b) wind
5 directions, (c) decades, and (d) seasons. Solid lines indicate posterior means, and dark and light
6 grey colors indicate 80% and 95% credible intervals, respectively. Predictions were made by
7 model 2.
8



1
2 **Figure S5.** Temporal change in the observed (a) and expected (b) number of days with wind-
3 damage events in forests in UTCBF. Different shades of grey indicate the contribution of wind
4 events with different levels of wind-damage probability. Expected number of days with wind-
5 damage events was calculated with model 2.

6