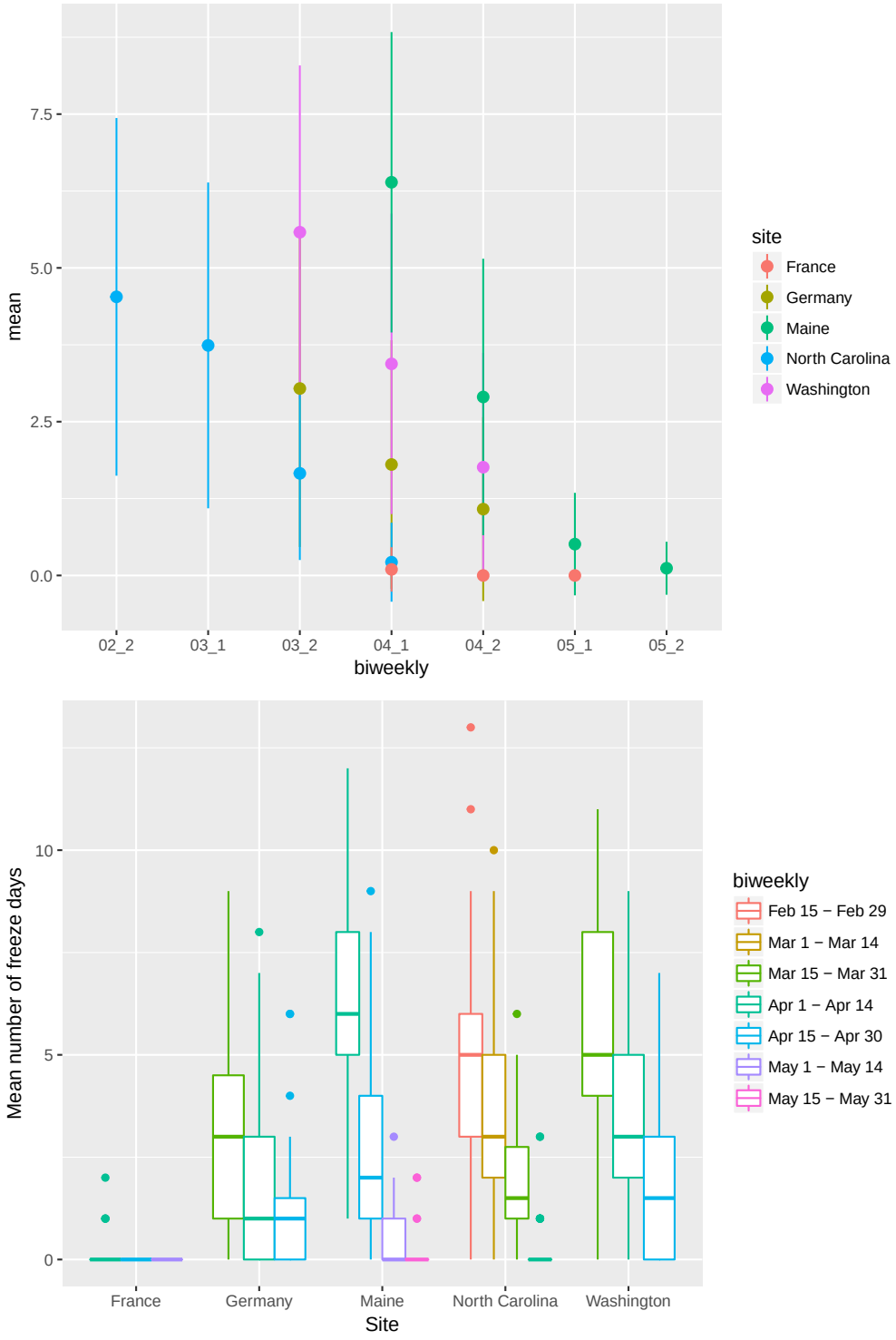
Figure 1: Risk of a false spring event across five climate regions. The data was subsetted for each region based on earliest historical budburst date to the latest historical leafout date (USA-NPN, 2016; Soudani *et al.*, 2012; Schaber & Badeck, 2005). We calculated the mean number of days that were -2.2°C or below (Ault *et al.*, 2015; Schwartz *et al.*, 2006; Schwartz, 1993) for each two week period that fell within that timeframe in each region.



References

Ault, T.R., Zurita-Milla, R. & Schwartz, M.D. (2015) A Matlab{©} toolbox for calculating spring indices from daily meteorological data. *Computers {&} Geosciences* **83**, 46–53.

Schaber, J. & Badeck, F.W. (2005) Plant phenology in germany over the 20th century. *Regional Environmental Change* **5**, 37–46.

Schwartz, M.D. (1993) Assessing the onset of spring: A climatological perspective. *Physical Geography* **14(6)**, 536–550.

Schwartz, M.D., Ahas, R. & Aasa, A. (2006) Onset of spring starting earlier across the Northern Hemisphere. *Global Change Biology* **12**, 343–351.

Soudani, K., Hmimina, G., Delpierre, N., Pontailler, J.Y., Aubinet, M., Bonal, D., Caquet, B., de Grandcourt, A., Burban, B., Flechard, C. & et al. (2012) Ground-based network of ndvi measurements for tracking temporal dynamics of canopy structure and vegetation phenology in different biomes. *Remote Sensing of Environment* **123**, 234–245.

USA-NPN (2016) USA National Phenology Network Data Visualizer Tool.