

# Additional supplementary figures

Tedesco L., Vichi M and Scoccimarro E.: Sea-ice Algal Phenology in a Warmer Arctic

Every figure shows the density distributions of sea-ice drivers for the recent historical (1961-2005) and scenarios simulation for the selected CMIP5 model using the sea ice cover threshold of 15% for freeze-up and breakup dates, day of occurrence and value of the maximum sea-ice thickness. The plots show the empirical distributions at every latitudinal range, accounting for the number of grid points that each model has at that latitude. The continuous line is the mode of the empirical distribution while the other lines represent the 50th (dot-dashed line) and the 10th and 90th (dashed lines) percentiles.

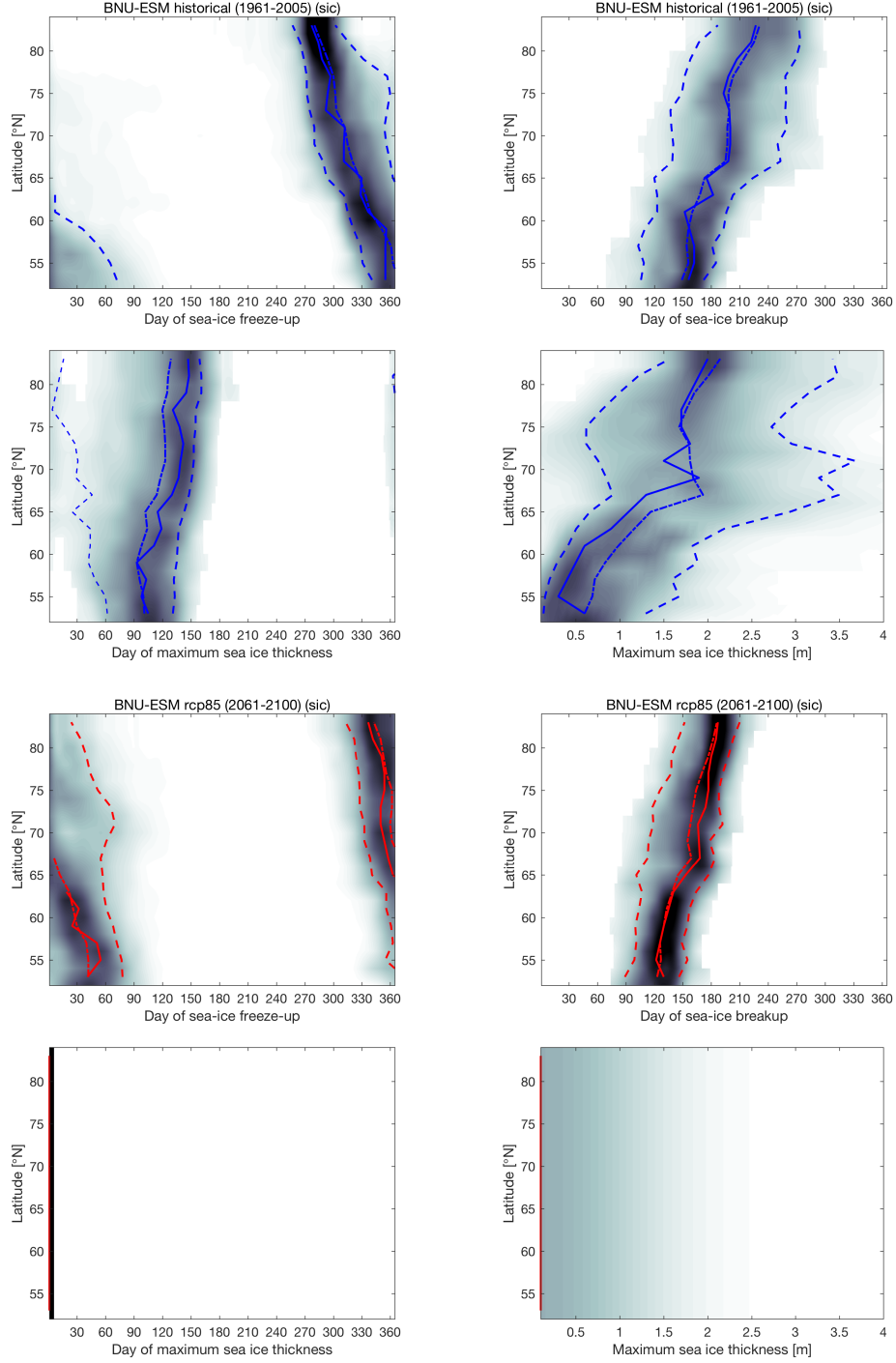


Figure 1: Empirical distribution for the BNU-ESM model. This model is the only one with complete melting of sea ice at the end of the RCP8.5 scenario.

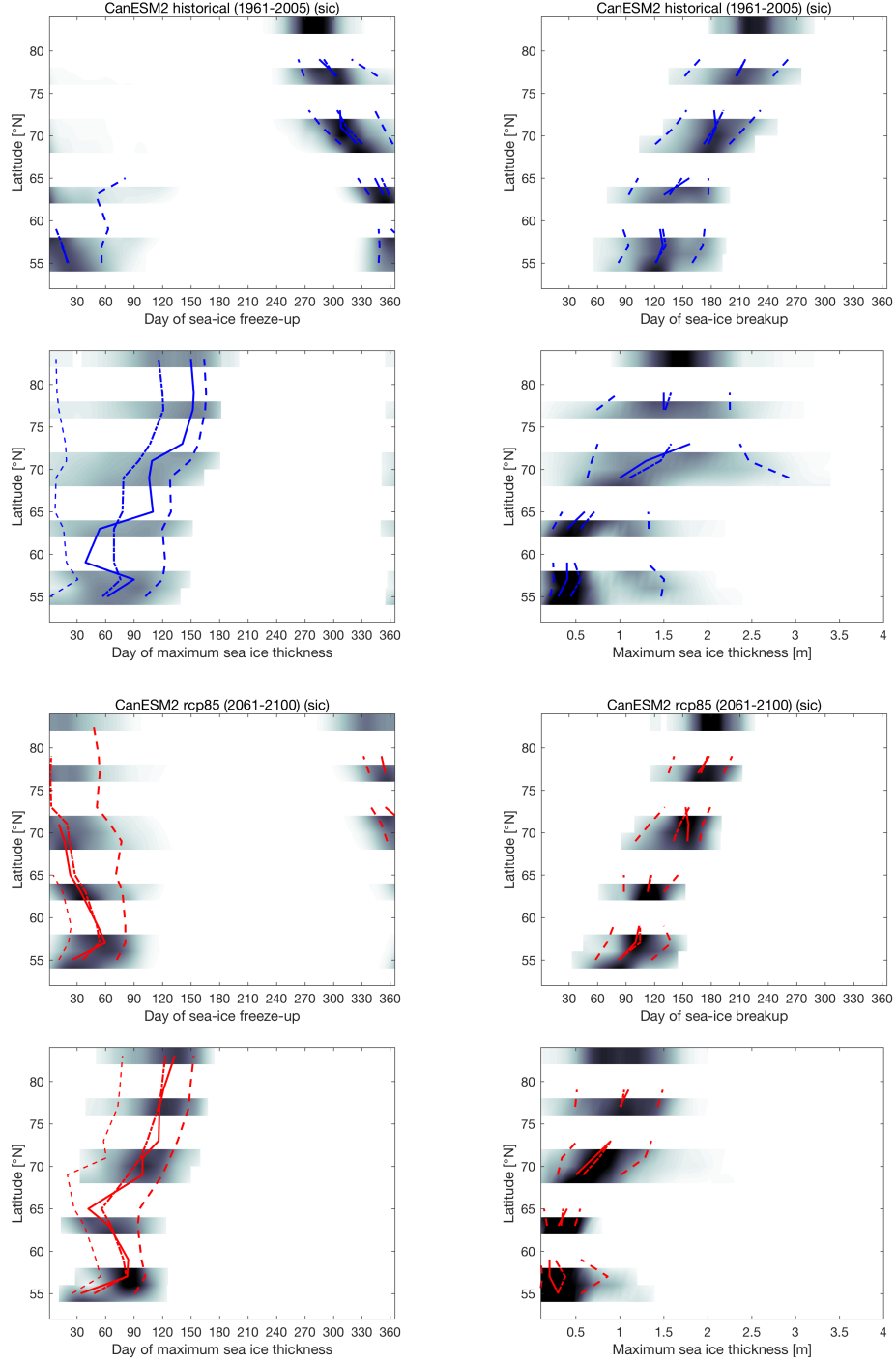


Figure 2: Empirical distribution for the CanESM2 model. The model resolution is coarser than 2 degrees and the data have been subsequently interpolated prior to the ensemble analysis.

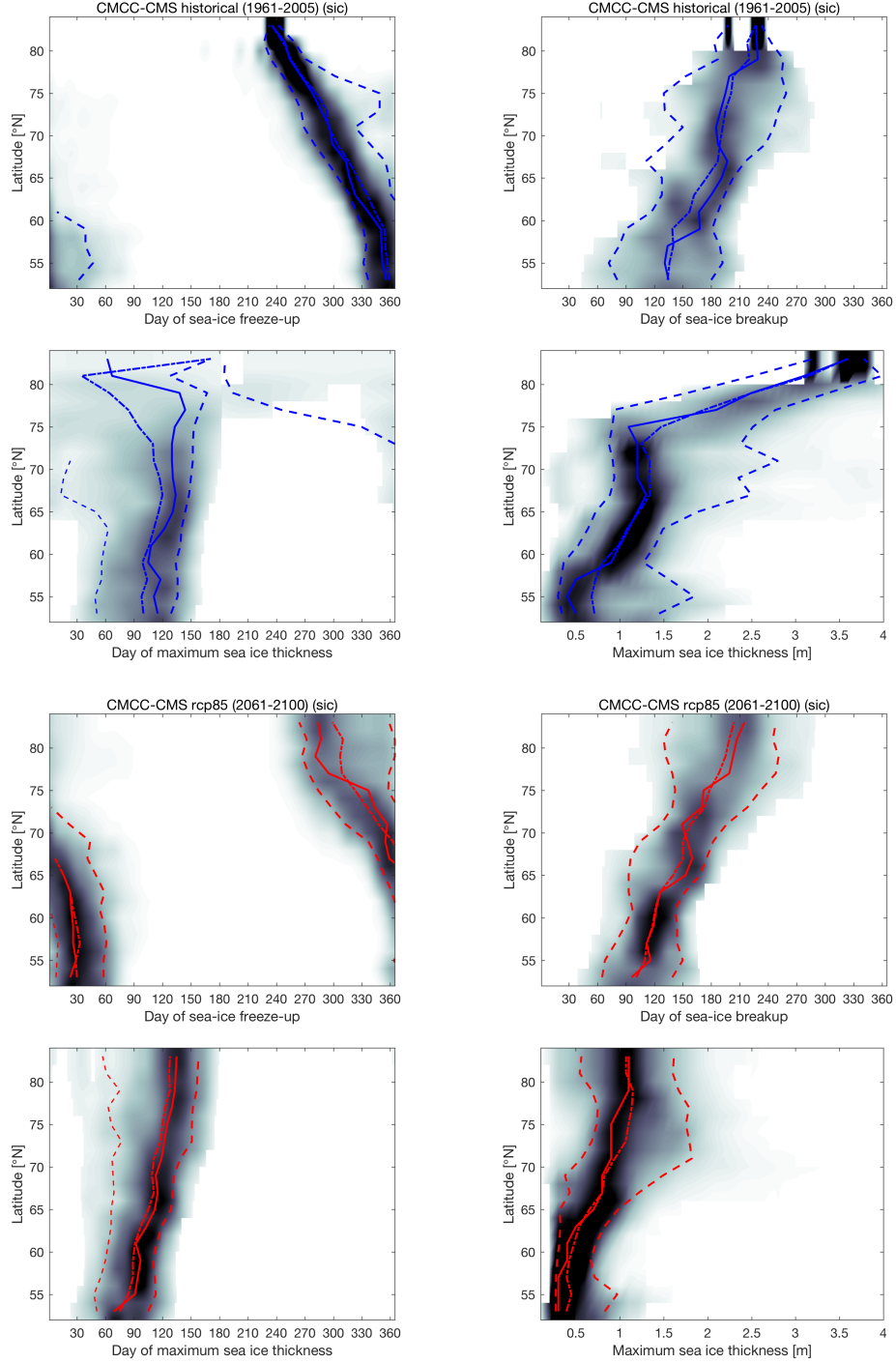


Figure 3: Empirical distribution for the CMCC-CMS model.



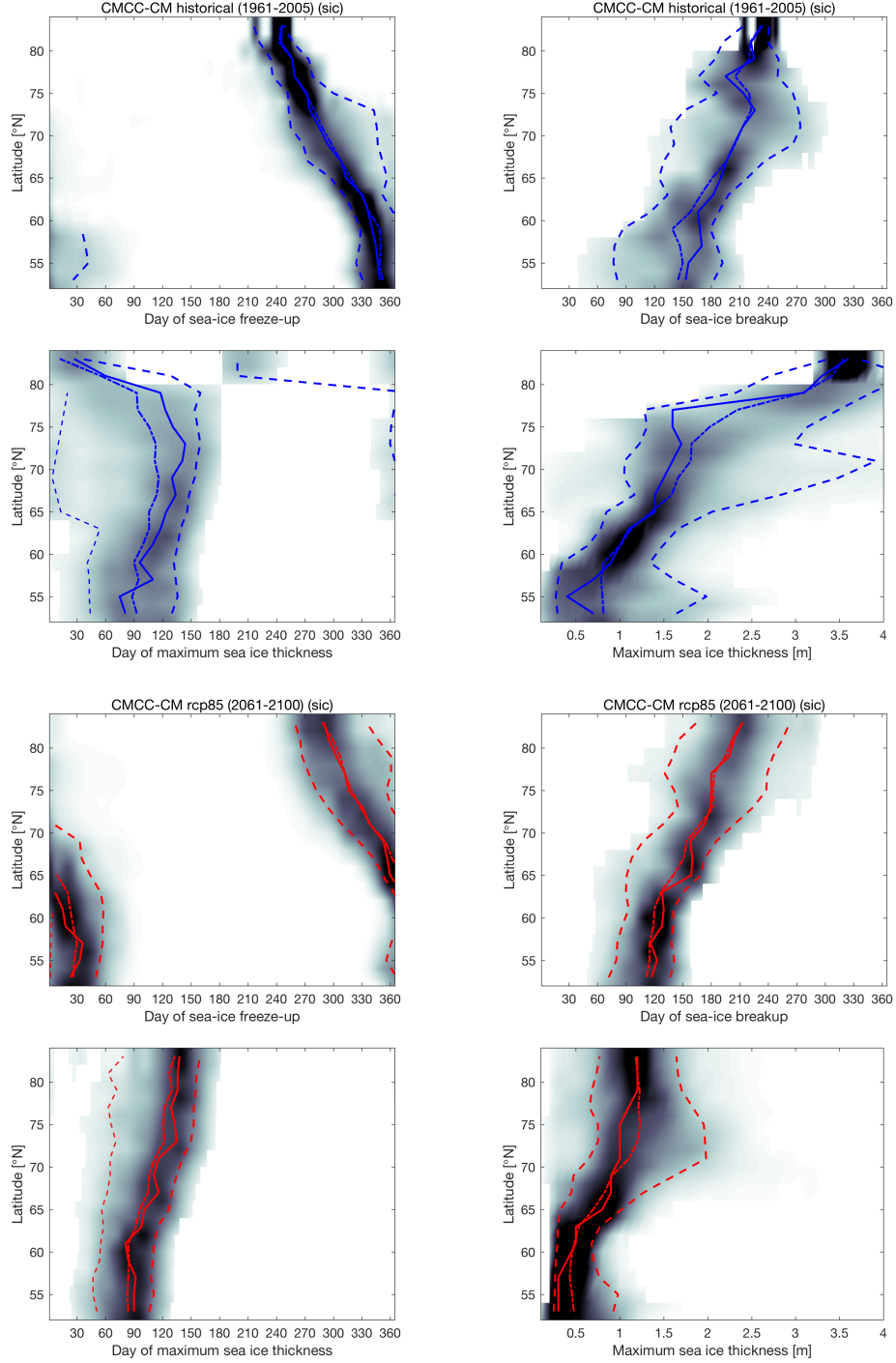


Figure 4: Empirical distribution for the CMCC-CM model.

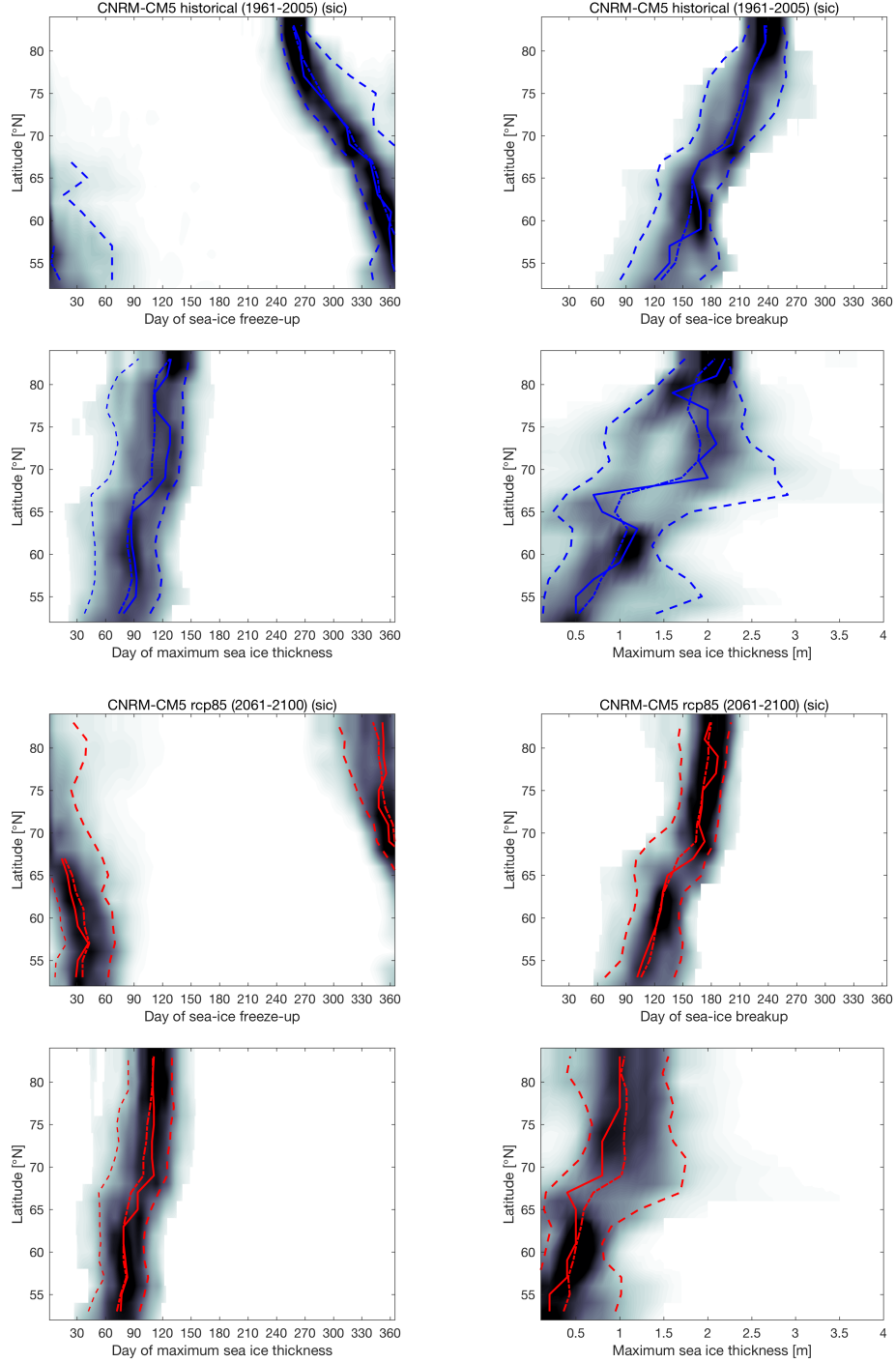


Figure 5: Empirical distribution for the CNRM-CM5 model.

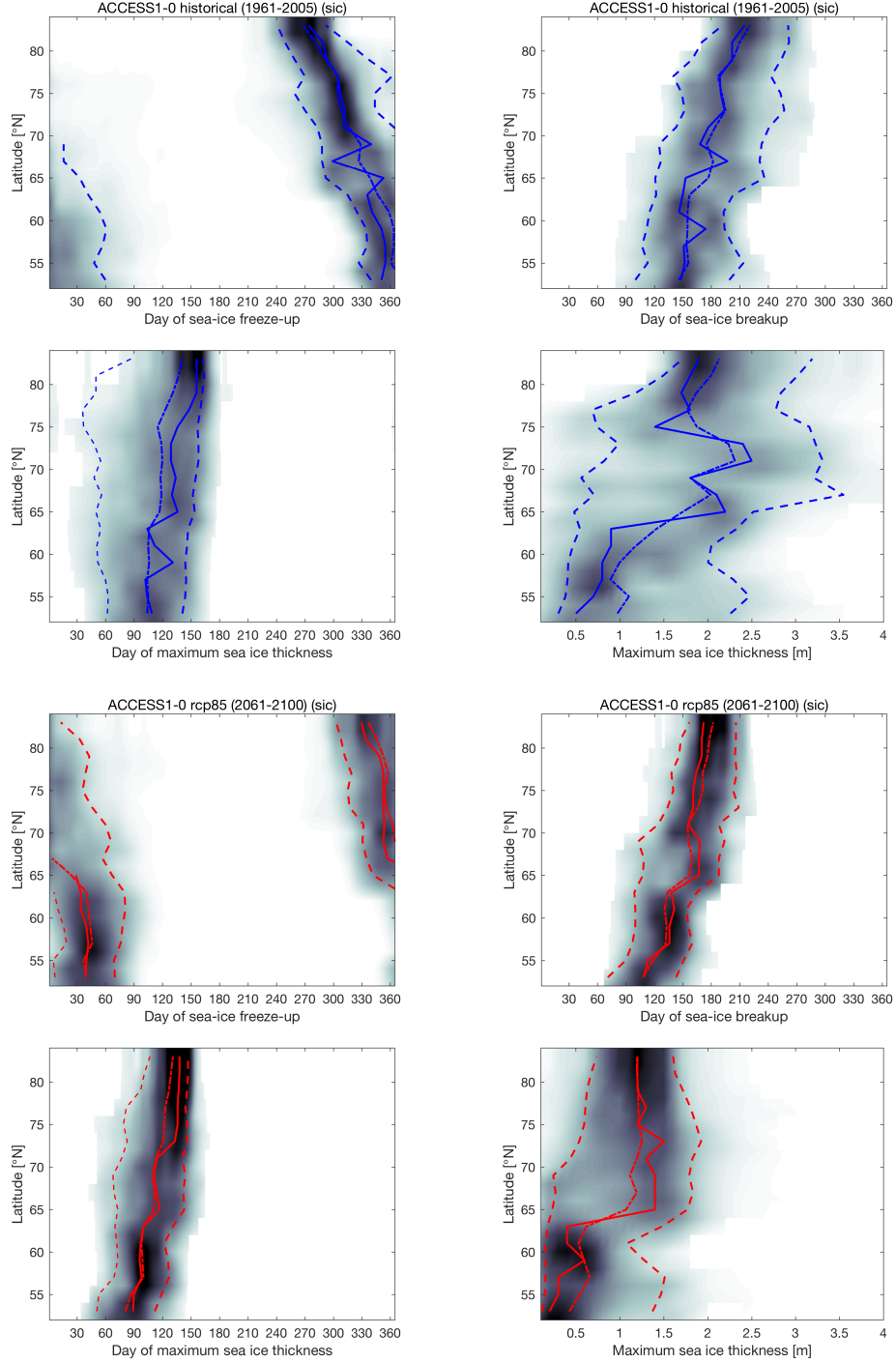


Figure 6: Empirical distribution for the ACCESS1-0 model.

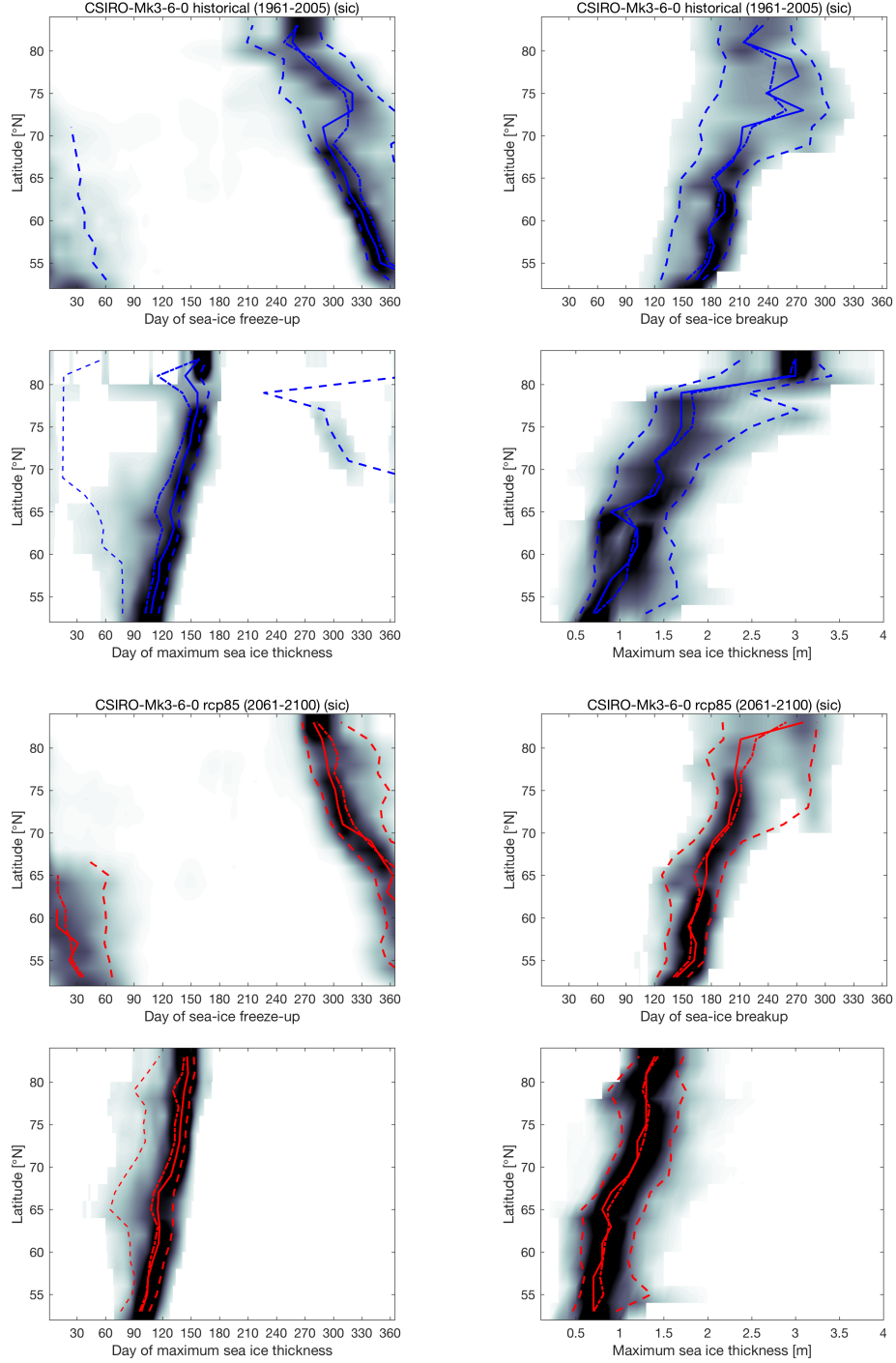


Figure 7: Empirical distribution for the CSIRO-Mk3-6-0 model.

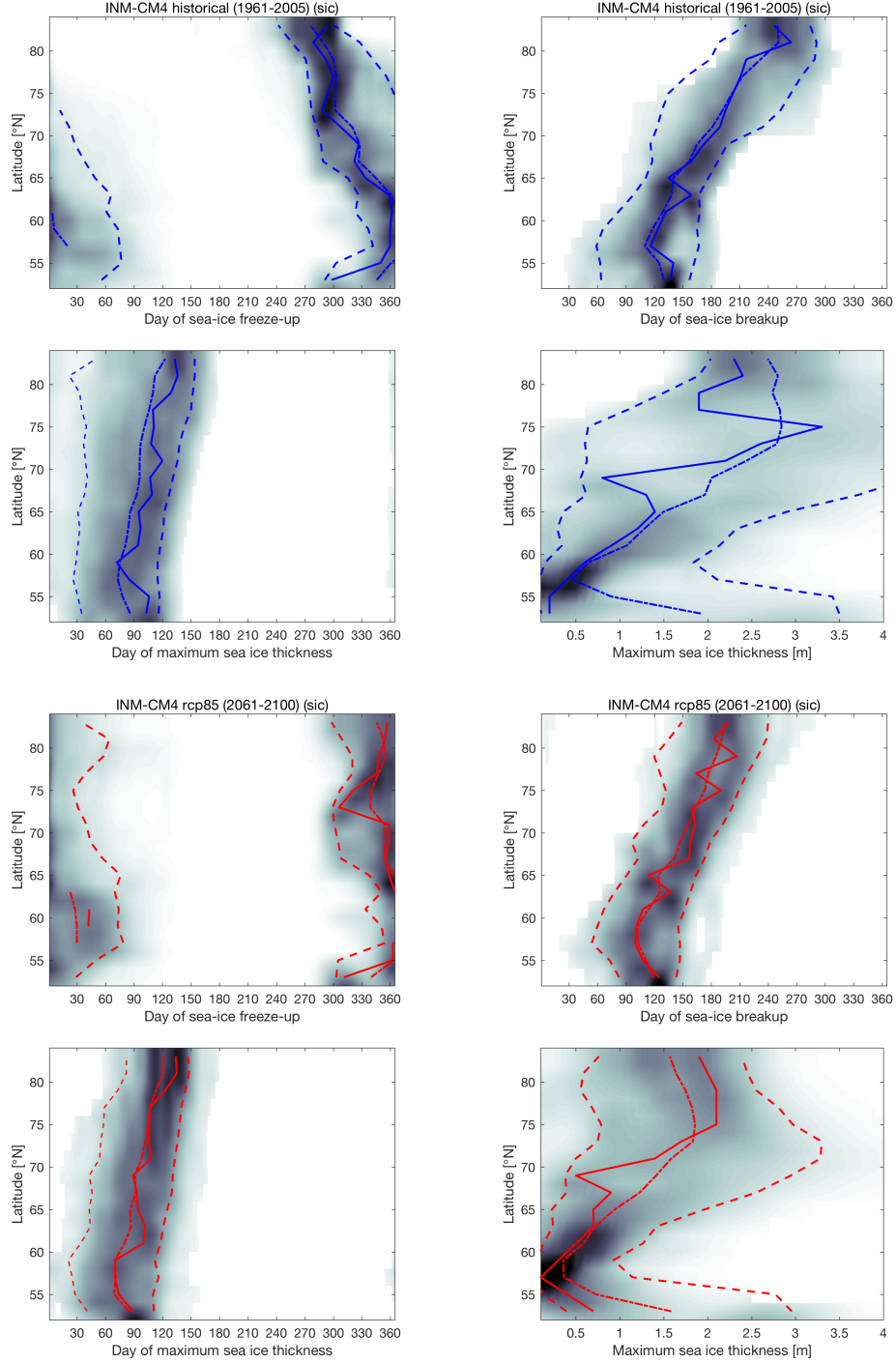


Figure 8: Empirical distribution for the INM-CM4 model.

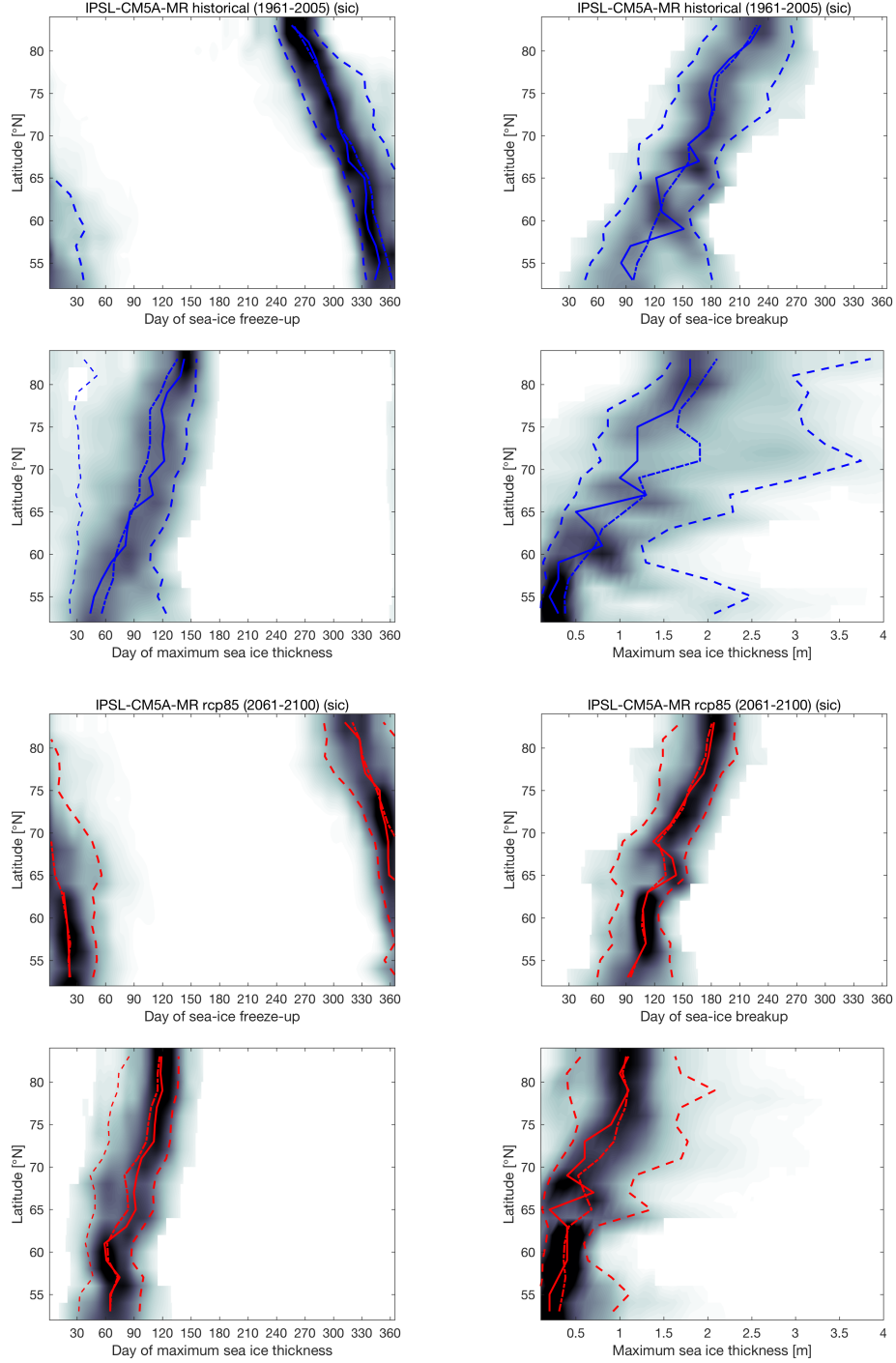


Figure 9: Empirical distribution for the IPSL-CM5A-MR model.

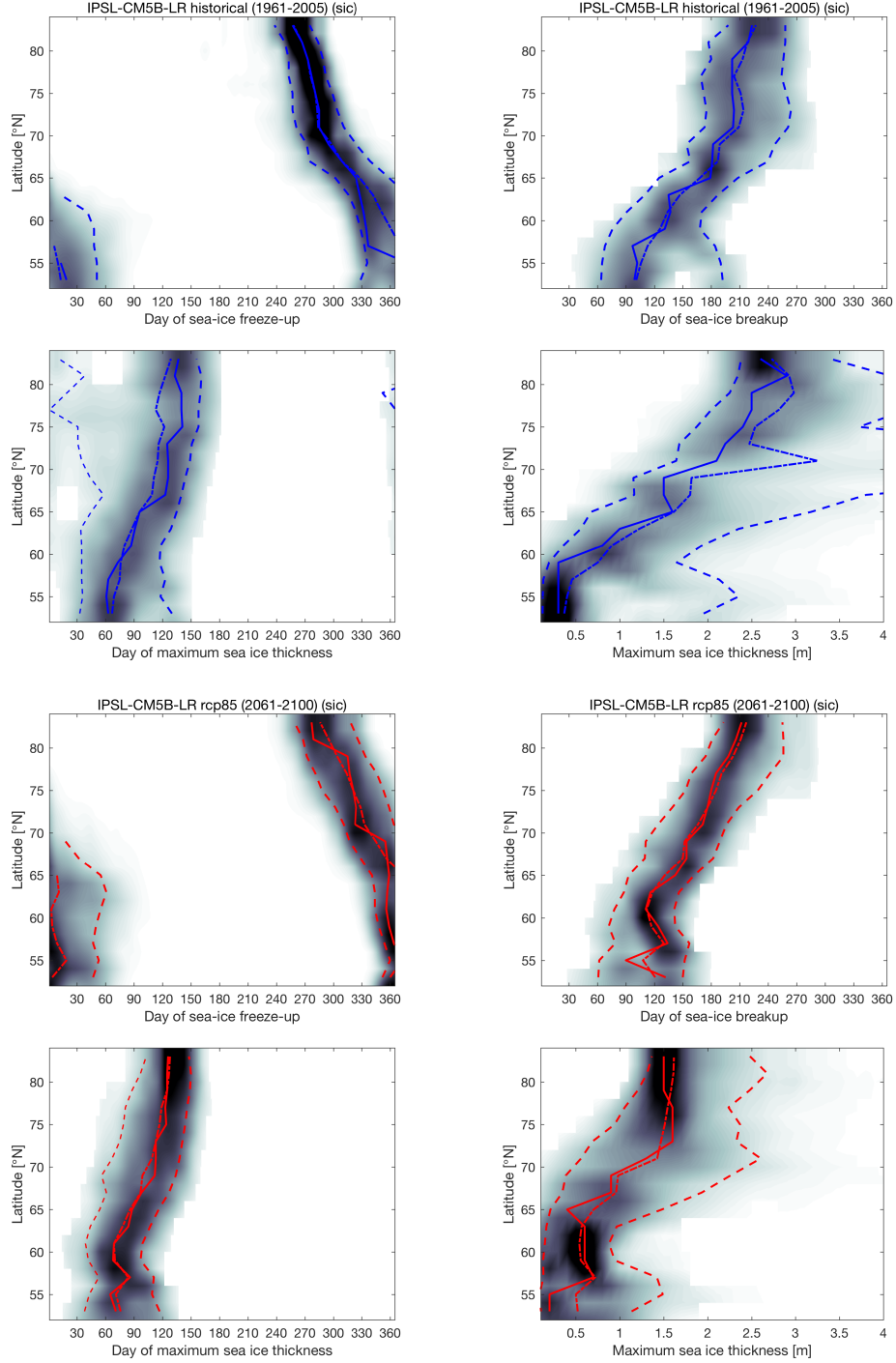


Figure 10: Empirical distribution for the IPSL-CM5B-LR model.



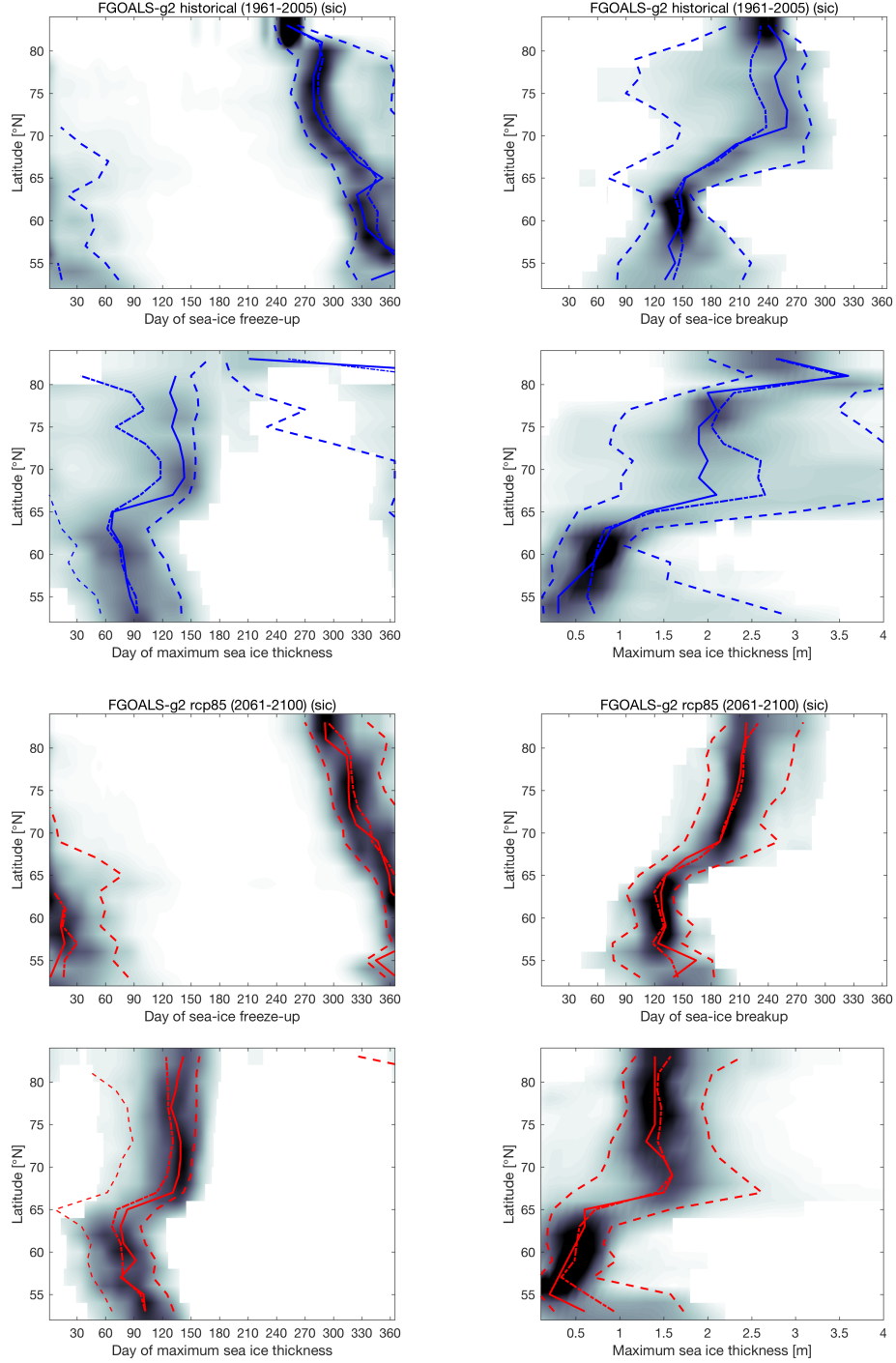


Figure 11: Empirical distribution for the FGOALS-g2 model.



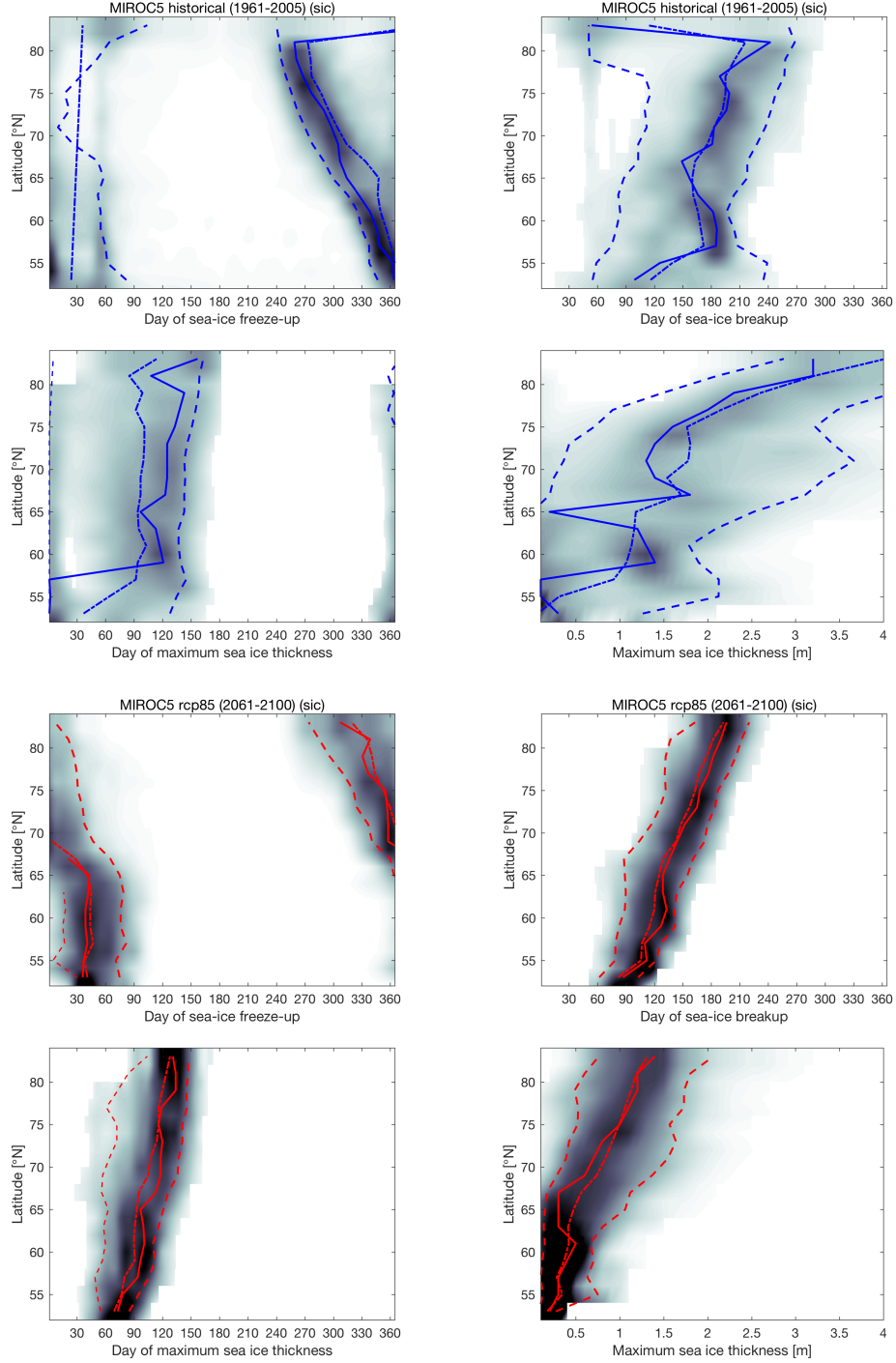


Figure 12: Empirical distribution for the MIROC5 model.

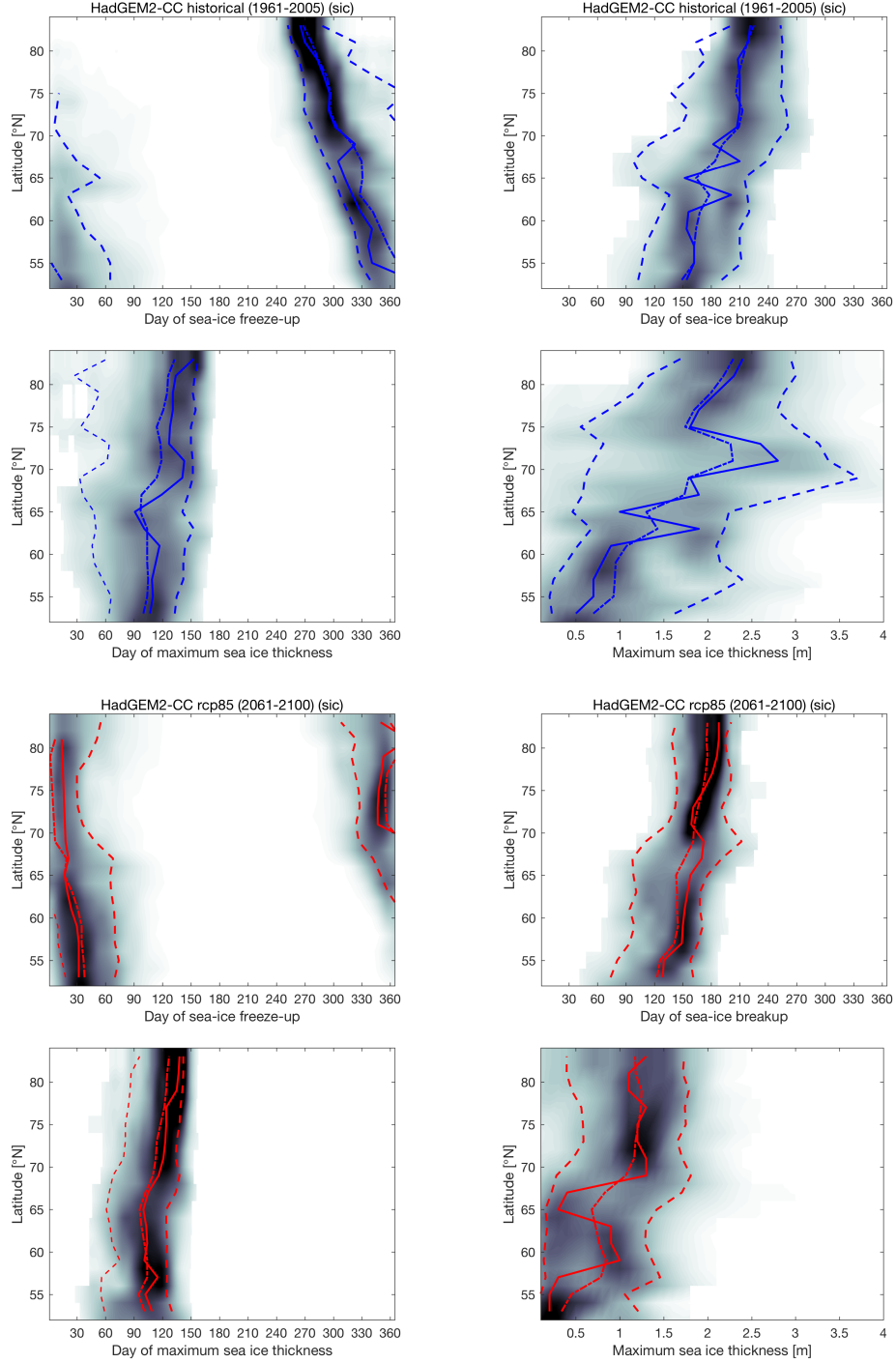


Figure 13: Empirical distribution for the HadGEM2-CC model.

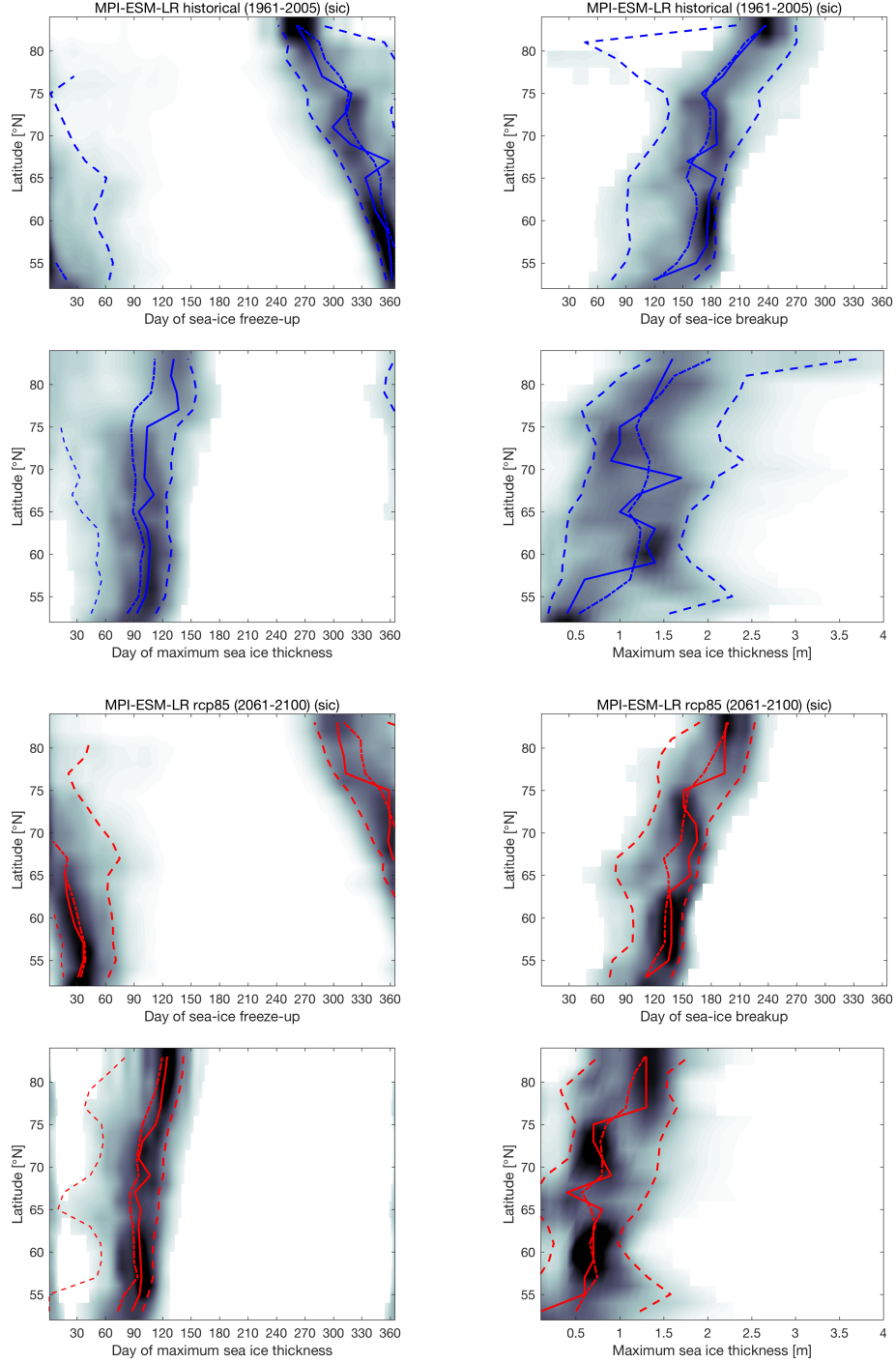


Figure 14: Empirical distribution for the MPI-ESM-LR model.

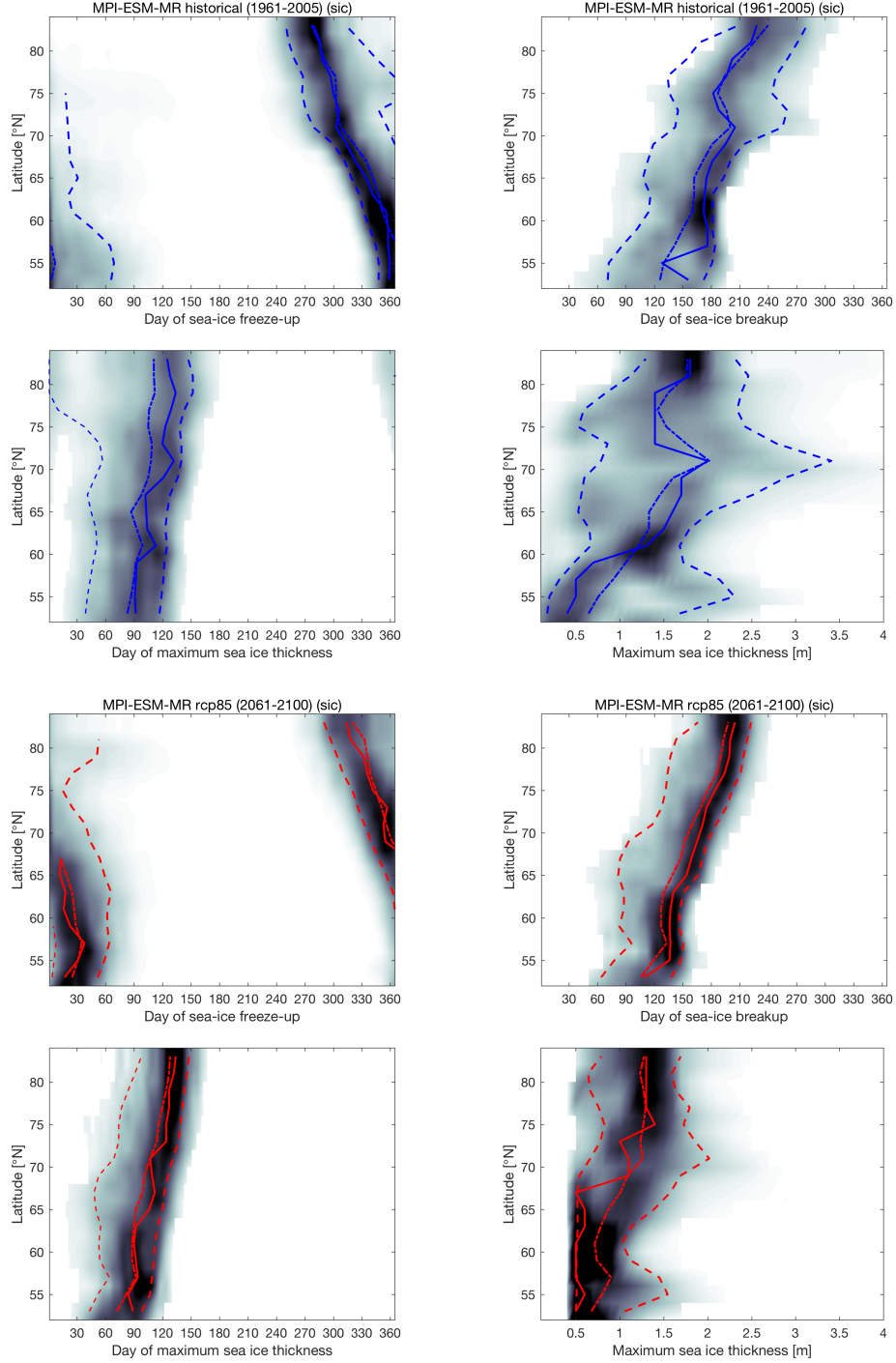


Figure 15: Empirical distribution for the MPI-ESM-MR model.

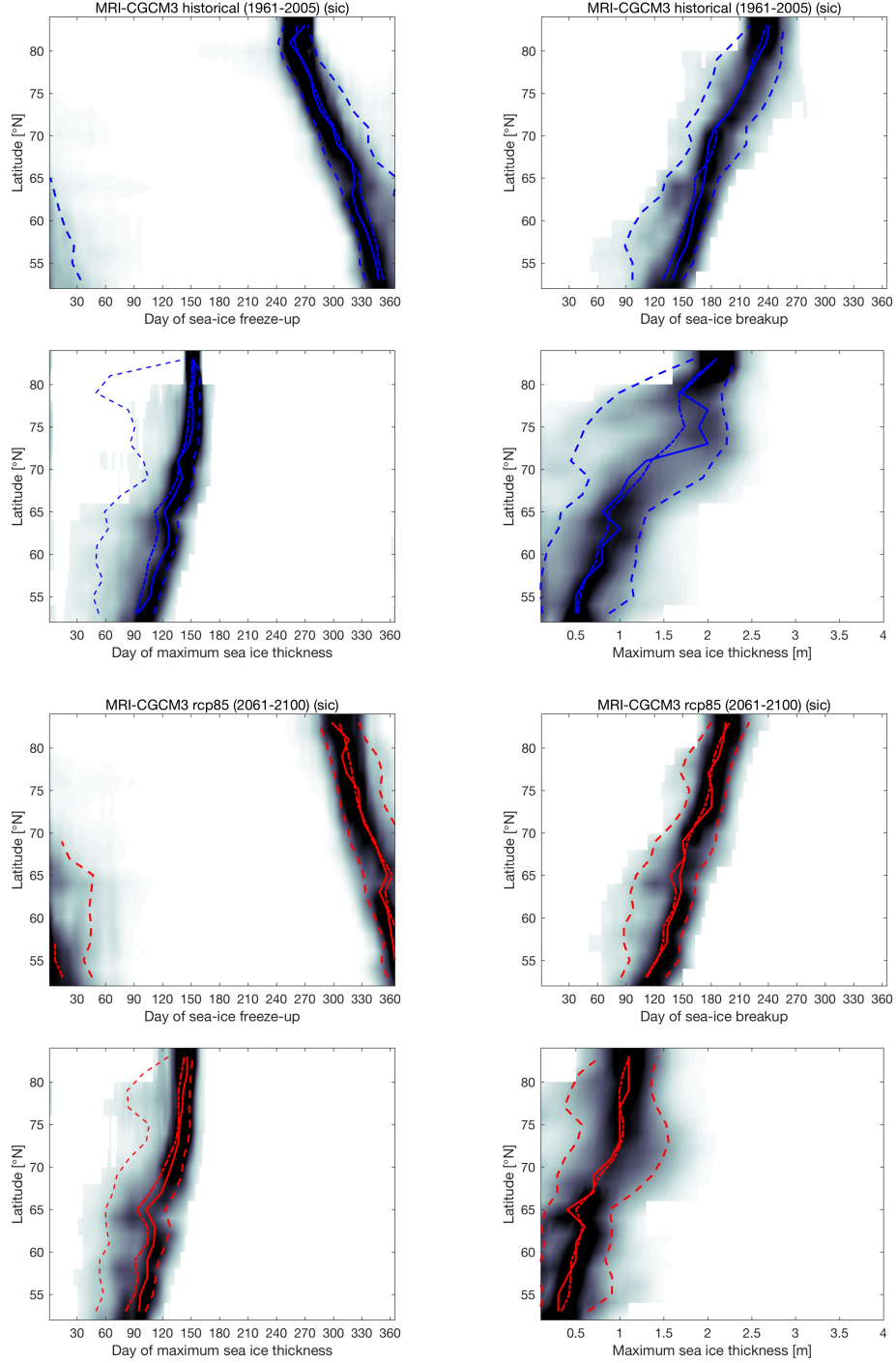


Figure 16: Empirical distribution for the MRI-CGCM3 model.

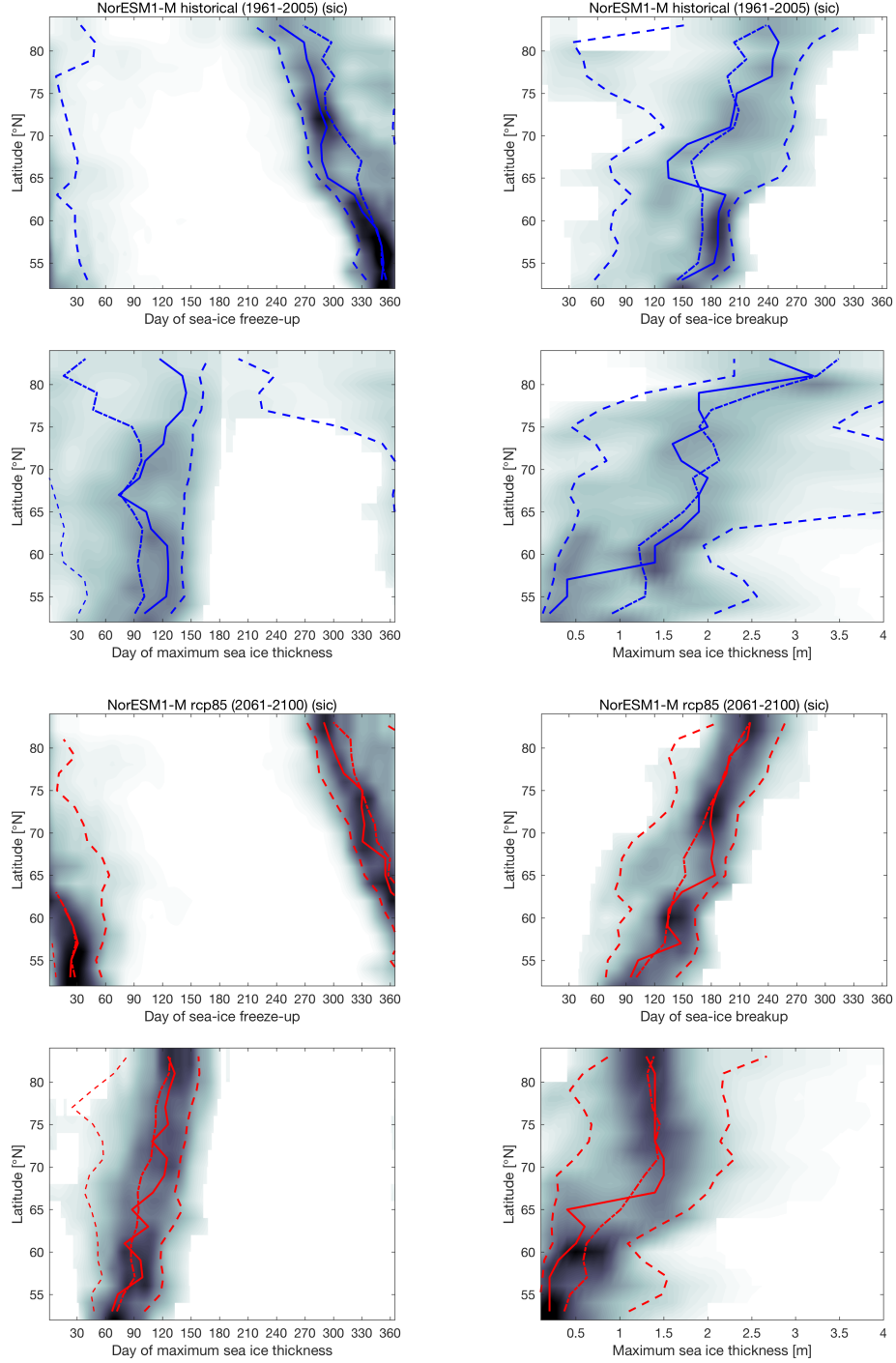


Figure 17: Empirical distribution for the NorESM1-M model.

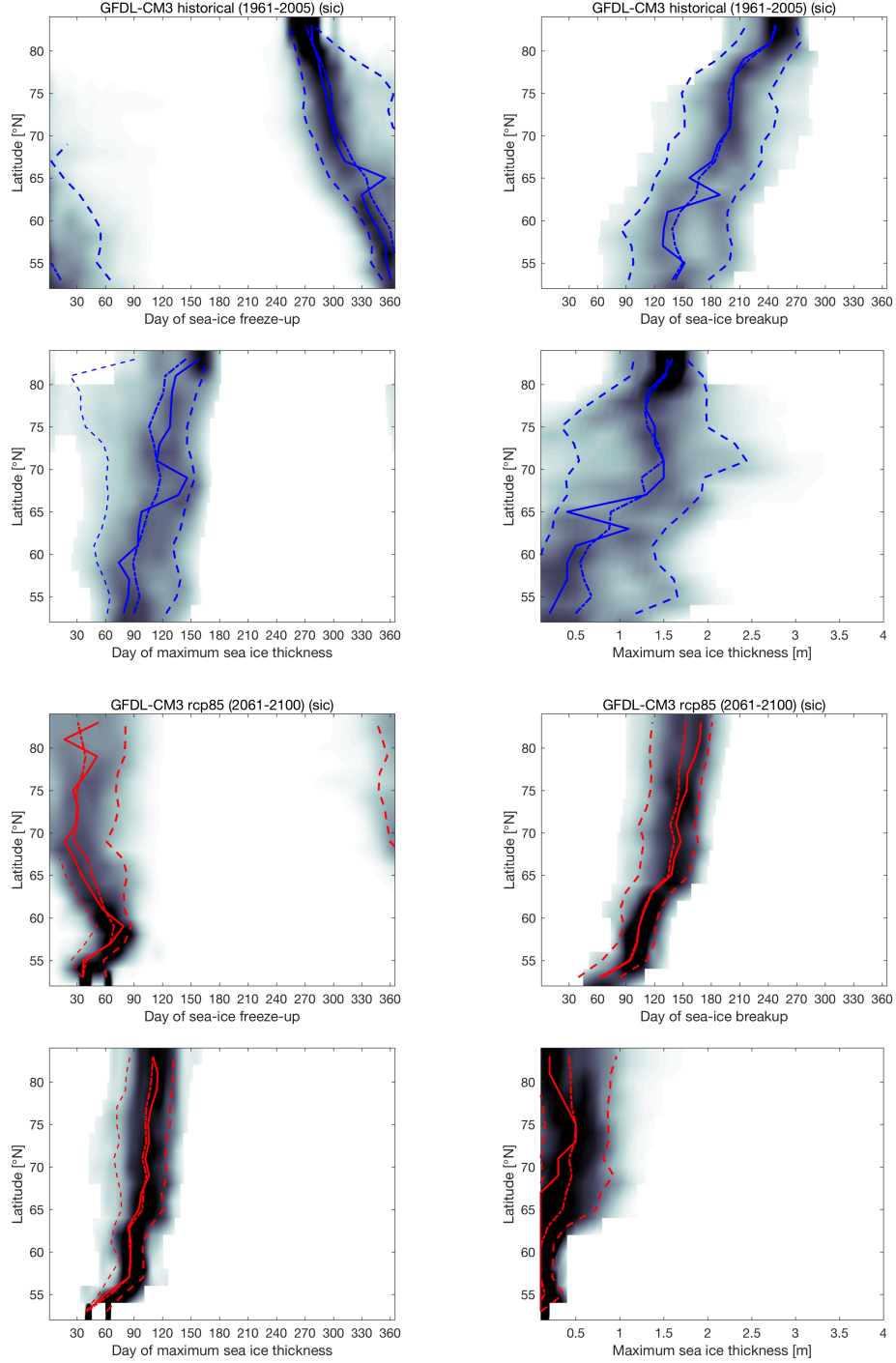


Figure 18: Empirical distribution for the GFDL-CM3 model.