Fraction of winters with at least one SSW

(a) Distribution of the fraction of winters across model resamples and observations.

Fraction of SSWs with NAO responses

(b) Distribution of the fraction of SSWs with NAO- responses across model resamples.

Distributions of individual 30d NAO responses

(c) Distribution of individual 30d NAO responses showing model mean and observed mean with respective distributions.

Mean 30d NAO responses over all SSWs

(d) Distribution of mean 30d NAO responses over all SSWs across model resamples.