Research Question

Will worst-case scenario (partial uncertainty information) lead to anchoring? Bias understanding of future weather conditions? Bias decision-making?

Despite the fact that the deterministic value (an unbiased estimate) is also provided?

Method

Participants acted as weather forecaster making wind speed forecasts in maritime community.

Confidence Rating: People were MOST confident in Upper Bound. Highest confidence rating in Upper Bound condition. Tony’s drill shows Confidence Rating in Upper Bound significantly different from median condition (p = .005).

Partial: Participants made numeric temperature estimate. Providing partial uncertainty information leads to a bias in understanding future weather conditions that can extend into decision-making.

General Discussion

We recommend users be provided with full uncertainty information to provide balanced understanding of future weather conditions, to improve decisions and trust in the forecast.

References