

Presenting Probabilistic Forecast Information for Decision Support Applications

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Most methods for presenting ensemble-based information are restricted to the physical dimensions of the variable or variable combination (e.g., box / whisker, plumes). However, transforming information into probability space with layered thresholds enables preserving information content depth and greater flexibility for decision support applications. Data representation in probability space also facilitates rapid consumption of the entire ensemble suite of information without arbitrarily flattening the data. This is especially true when applying the viewpoint in time-series representation. The discussion will revolve around examples of using probability space time-series, wind roses, and decision tools for augmenting an evolving forecast process and producing comprehensive DSS consultation services.