Ensemble Forecasting WG

“The future is probabilistic.”
- Cliff Mass

- Ensembles are one way to produce probabilistic forecasts
  - Especially if interested in unlikely events
  - Ensembles have been produced operationally for little more than a decade, even less for short-range

Be an ensemble advocate!

- Include ensemble perspective within parameterization and assimilation scheme development

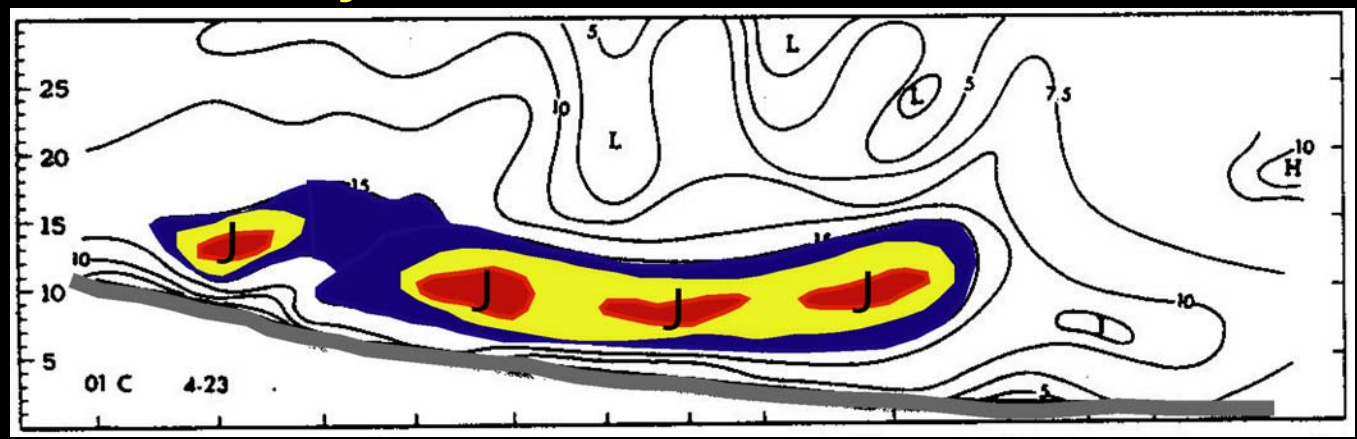
  Define tunable parameters and specify reasonable range of values

  Outline strengths and weaknesses of scheme from the outset if possible

  Uncertainty in covariances

Important Questions

- Initial condition perturbation strategies
  - Application dependent (certainly short-range and medium-range perturbations likely will need to be different)
- Model/physics variability
- Mesoscale and small-scale analysis uncertainty



Capability

- Ability to reproduce known features and behaviors with greater specificity.

Value

- Defined by users. How well forecasts can be applied to particular problems of interest and help people make decisions.