

## 2012 HPC computing at ESRL – model applications

- Much more global modeling
  - Weather forecasting – FIM, nextFIM, other models
  - Global Rapid Refresh – aviation, situational awareness
  - FIM-Chem
  - Global data assimilation – GSI with chem
- Much more ensemble modeling
  - From global scale to 1km hourly updated Rapid Refresh
- Equal resources for data assimilation as for modeling, including:
  - Ensemble KF at all scales
  - 4dvar at all scales
- NCEP ties will be more stronger than today
  - interchangeability will be more important than today