Group 8
Contributions & Future Activities
Co-Leaders: Hall & Mullen
Ardvino, Bradley, Hamill, Gall, Gupta, Jones, Schaake, Weiss

- HEPEX Must Be Evolutionary-Adaptive Program
- Determine what the requirements are

  Develop linkages among 3 Groups
  - Meteorology
  - Hydrology
  - End Users
- Design a program that effectively "reach outs" to relevant boundary communities

  meteorology → hydrology → end users

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- Prove that hydro forecasts have "value"
  Show how they can aid decision making
  Create "decision tools" for end users
- Suite of models appropriate for time-scale
  Nowcast/short-range →mesoscale
  Medium-range →global
  Seasonal →statistical

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- Joint work btw scientists & users in test beds
- A valuable role for HEPEX would determining a "consensus" set of specific meteorological products that are needed by hydrologists.
- Different a suite of verification measures for meteorological fields that are hydrologically relevant
  - Applied to all stages of processes
  - Time-Space Partitioning
- Collaboration on calibration of Meteorological forecast fields for input into Hydrological models

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- Community Approach to Use Test Bed**S**

  How to do it in way that is relevant to hydrology and of value to end users

  Will promote collaborative work

  Reduce redundancies

  Many types of test beds at different globally sites for different time scales

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- Foster Development of a "Reforecasting Project" for Meteorological Ensembles

  Engage Several Operational Centers

  Mesoscale, Medium-range, Coupled models

  Several "Common Domains" across Global

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- Ensemble Data Assimilation Issues
  Hydrological Considerations
  Estimates of Uncertainty of Precipitation
- USWRP Hydrometeorology Test Bed
  0-14 days
  partnership-influence opportunities

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- Must Predict Flow for Regulated Basins
- Make Available the Begins of CHPS

  Commitment to re-engineer software to make hydro models community friendly
- Plan Workshop to Start the Immediate Development of a CHPS as a Framework for a Test Bed???????
- Go to Where the Data-Instruments Are