

FY 2006 Annual Guidance Memorandum

Advanced Hydrologic Prediction Service

This Annual Guidance Memorandum provides direction for the Advanced Hydrologic Prediction Service (AHPS) Theme Teams as they formulate recommendations for projects to be funded by AHPS during FY 2006. The NOAA Hydrology Program Manager's priorities for each of the 5 themes are listed. Of course, Team recommendations are not restricted to projects that directly support these objectives. Theme Teams should feel free to propose and justify the funding necessary to continue or initiate other critical activities.

In addition to these 5 theme areas, activities will also be funded in the categories of: Implement Basic Services; Outreach; Training; Web Page Deployment; and Program Management. FY 2006 work plans in these areas will be developed by headquarters' staff and reviewed by the AHPS Review Committee.

Innovation

- Test distributed hydrologic modeling and automated data assimilation over mountainous terrain
- Develop a unified Mean Areal Temperature process for both calibration and operational use
- Test advanced hydrologic ensemble prediction techniques

Flash Flood Services

- Deliver viable multisensor precipitation estimates for all regions, including data sparse areas
- Deliver improved flash flood monitoring tools (site specific, FFMP, statistical distributed modeling, for example)
- Quantify impact of dual polarization radars on multisensor precipitation estimation

Short- to Long-Term Forecast Services

- Deliver Short-Term Ensemble Preprocessor to AWIPS
- Deliver Ensemble Verification to AWIPS

Graphical Dissemination

- Deliver a national river flood forecast mapping baseline capability

Software Architecture Enhancements

- Deploy operational distributed hydrologic model – leverage Community Hydrologic Prediction System design/development and provide the capability to use gridded snow water equivalent information from the National Operational Hydrologic Remote Sensing Center
- Deliver improved calibration tool from requirements
- Complete delivery of streamflow regulation capabilities