

Introduction of Science and Technology Infusion Climate Bulletin

<http://www.nws.noaa.gov/ost/climate/STIP/>

NOAA/NWS Office of Science and Technology

Although the skill of current operational climate prediction is limited and the research on the topic presents many challenges, there are promises of improvement on the horizon. To accelerate advancement in climate services, an effective mechanism of S&T infusion from research to operation for application is much needed. This bulletin has been established to clarify science-related problems and relevant issues identified by operational forecasters and end-users, and help our partners in the research community to understand which R&D activities are needed to "shoot arrows at the target."

Featuring

- Home of NOAA/NWS S&T infusion for climate services
- Overarching view — service vision, mission structure, infusion concept and development strategies
- News and activities — transparent management process, keeping track of important issues and facilitating communication among research, operation and application communities as well as between operational centers and headquarters
- Problems and R&D needs identified in the operation for application – stimulating scientific discussions and supporting NOAA/NWS requirements-based management
 - Operational system assessment — current status and achieving progresses
 - Predictability challenges — dependencies and uncertainties
 - Modeling issues — improving physics, dynamics, chemistry and coupling and understanding the mechanisms
 - Climate monitoring and data development — data continuity and stewardship
 - Regional services and decision support — products innovation, downscaling and service extension
- Program with strategic partners — advisories and collaborations
 - Experimental prototype projects — domestic (federal, university, private and cooperative) and international collaborations
 - Implementation of National Integrated Drought Information System (NIDIS)
 - Climate Testbed (CTB) and Hydrology Testbed (HTB)
 - Cooperation with weather & water and ecosystem goal team activities
- S&T advancement — timely recognizing research achievements and promoting infusion to operation for applications
- Information bridge — providing linkages to access following information relevant to S&T infusion:

strategic partners, projects and experiments, programmatic and planning documents, meeting and workshop presentations, research progress, education and training, climate data resources information, drought monitoring and prediction, special memorial, local seminars

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The NOAA/NWS Science and Technology Infusion Climate Bulletin welcome you to address important S&T issues and application needs to improve national climate services.