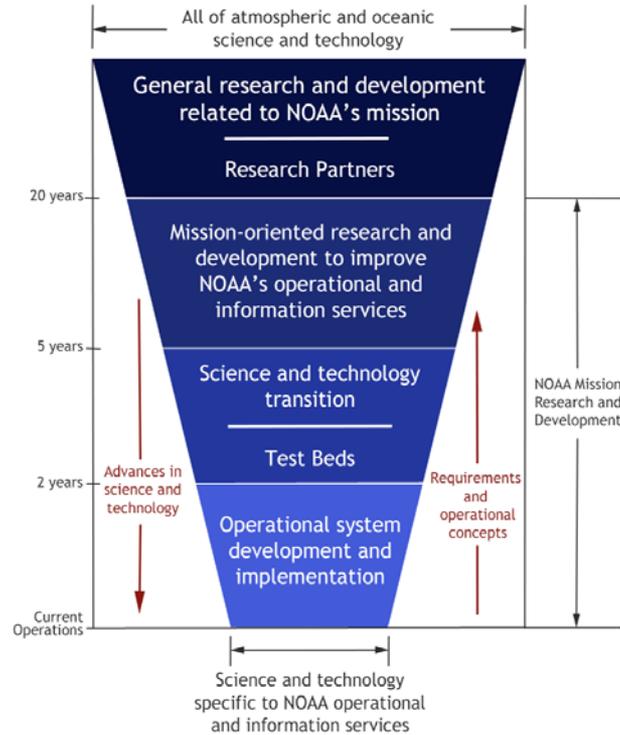


OAR research and transition supports the development of NWS climate services

NOAA Research and Development Funnel



Implemented OAR-NWS Climate MOU (FY15 Service Level Agreement with 35 projects; ~\$3.3M)

Category	Topics	Total CPO Planned FY15 awards	Portion of FY15 Awards for NWS PI's
Research	Understanding predictability and process modeling	\$6,839,174	\$874,500
Development	Monitoring and Prediction	\$4,740,500	\$1,482,500
Demonstration	NOAA CTB competitive research for modeling and prediction	\$1,507,000	\$608,000
Application	R2O and R2A	\$615,000	\$335,000
	TOTAL	\$14,951,674	\$3,300,000

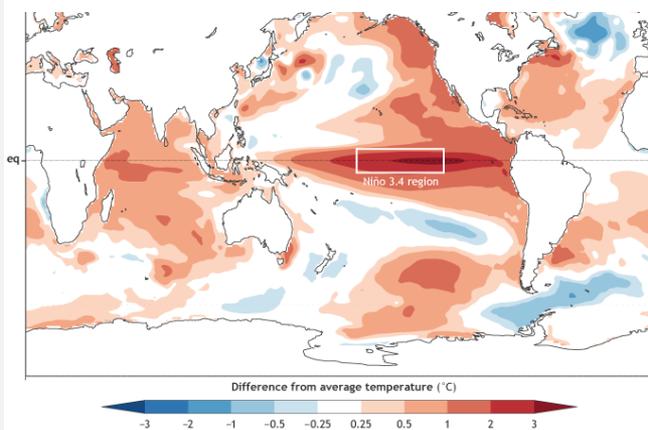
NOAA Climate Test Bed projects

NOAA CTB projects have improved operational NWS climate capabilities and services in the areas of modeling, monitoring and predictions weeks to seasons

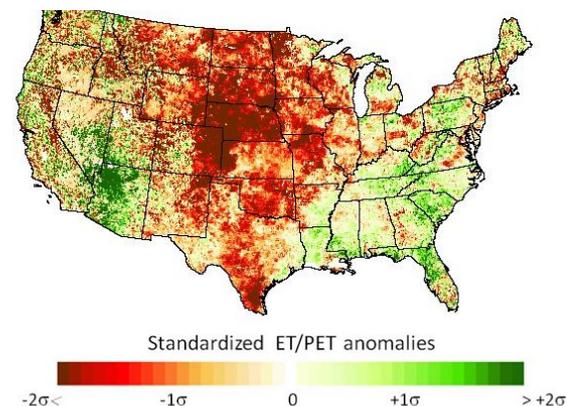
- Upgrades to GFS/CFS physical cloud schemes
- Improvements to drought monitoring capabilities
- Improvements to seasonal prediction capabilities (the new North American Multi-Model Ensemble system)

September NMME forecast of sea surface temperature anomalies for Dec 2015-Feb 2016

ENSO Prediction - NMME



Drought Monitoring -ESI



External community involvement via CPO has been key to the success of the CTB



On-going and new CTB projects

- Nine on-going projects RL 5-8 selected and supported by OAR/CPO:
 - Areas: Modeling of clouds, aerosols, land and lakes; Predictions for week 3-4 and NMME improvements.
 - All have R2O transition plans that NWS and OAR AAs jointly support.
 - Potential transitions to NWS operations from these projects is during FY17-FY18.
- A new set of CTB projects to be selected in FY16 via CPO MAPP program competition.

Clouds



Aerosols



Lakes



Drought



Extremes



OAR and NWS work together end-to-end to develop climate services

- NCEP and CPO staff work closely to coordinate via the CTB management Team on transition activities
- Upstream research and development supported via OAR at its Laboratories/CI's and in the external community via CPO is key to further advance climate services.
- The NWS-OAR MOU and SLA on the development of climate services is a commitment for the Line Offices to work together.

