

NOAA's REGIONAL CLIMATE SERVICES: R2S and the Interagency Arena

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Rising Demand for Climate Information with Regional Perspectives



Sustainability of Marine Ecosystems



Coasts and Climate Resilience



Climate Impacts on Water Resources



Changes in Extremes of Weather and Climate



Agriculture



Energy



Health



Transportation

R2S- Lingo on the role of services

User-driven, useoriented, useinspired, problemfocused Information for decision-makers

Partnerships, collaboration, can't do it alone

Environmental Intelligence

Co-production of knowledge

Actionable Science

DSS

NOAA's Contribution to a Federal Partnership

NOAA commits to providing critical assets in science and service to a Federal partnership



Information Delivery and Decision Support

NOAA's Assets

NOAA uses its national and regional and regi

Assessments of Climate Change and Impacts

NOAA is a leader in national and regional climate impact assessments 75% of Federal IPCC authors were from NOAA

Climate Change Research and Modeling

International award winning models of the global climate

Climate Observations and Monitoring

NOAA operates observation and monitoring systems
NOAA is mandated to monitor and provide access to climate
data and information

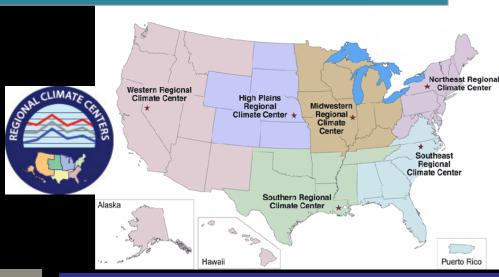


NCEI's Information Services: Strengthen Networks

Strengthen Networks for Developing and Delivering NCEI's Products and Services

Regional Climate Centers
State Climatologists
NOAA- OAR, NWS, NOS, NMFS
Federal
State
Academia

AASC Recognized State Climate Office





NOAA's Regional Climate Services Directors





NGOs

Tribes

Regional Partnerships

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|------------------------------|--------------------------|----------------|-------------------------|-----------------------------------|---------------------------------|-------------------|
| Sector | Primary Fed Agency | Fed Plan | State Agency Lead | Regional Coordinating Group | Internat'l and Interstate | |
| Coastal | NOAA | CZ 309s | CZ | NROC, MARCO (ROGs) | GOMC | |
| Nat Resources | DOI | SWAPs | F&W | LCCs | | |
| Forestry | USDA | Plan Guides | State foresters | Cli Hubs | | Climate |
| Health | CDC | BRACE | DOH | CoP, NE states | | Info Providers |
| Infrastructure | DOT/FH WA | TIPs | DOT | ICNet | | r roviders |
| Emergency Mgmt | FEMA | HMPs, THIRA | EMA | NEMAC | IMEG | \ |
| Environment | EPA | PPAs, PPDs | DEP, DEM | New! | | |
| COORDINATION | NEFP, | | State Task | | | |

Climate Information Providers

Variables:

Geographic scale (international, national, regional, state, local) Temporal coverage (historical or projected) Research or operational information delivery

| Regional Group | Temporal coverage | Research or operational delivery |
|--------------------------------|--|---|
| NOAA RCS (RCSD, RCC, and SC) | Historical context, present observations | Operational |
| NOAA RISAs | Historical and projected | Research, multi-sectoral |
| NOAA Cooperative Institutes | historical | Research, multi-sectoral |
| DOI/Climate Science Centers | Historical and projected | Research, primarily for natural resources |
| Others? | | |

NOAA Compared to Other Agencies





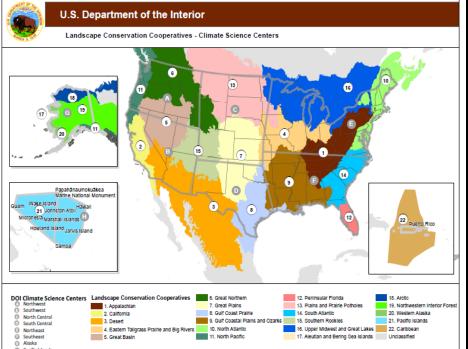
USGS- Cli Sci Centers- 8

DOI LCC-23

Produced by FWS, IRTM, Denver, CO Map Date: 03182010



USDA Climate Hubs- 7/3



The Continuum of Regional Climate Services Delivery



- Lessons from the Weather Enterprise, application to Climate Enterprise?
- NOAA Big Data Partnership, offer the data, sell the tools
- What about those that can't pay for the tools we've been discussing?





Silver Spring, MD

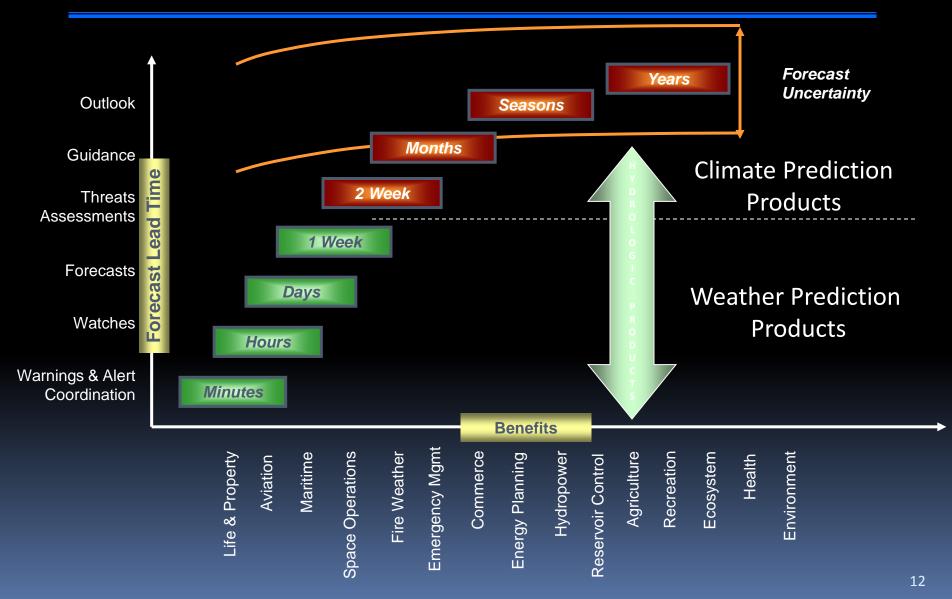


BackUps



NOAA Seamless Suite of Forecast Products Spanning Climate/Weather/Water





Regional Climate Services

The development and delivery of climate products and services that are on time and spatial scales needed most by decision-makers

<u>Development and Delivery</u>: requires and end-to-end system that links research, modeling and assessment activities to product and services development, along with delivery systems and capacity building to help users incorporate new knowledge into their decision making.

<u>Products and Services:</u> climate information and decision support tools that expand one's understanding of risk and impacts and promote identification of adaptation and mitigation options

<u>Time and spatial scales:</u> climate impacts are felt closest to home. Users need timely, place-based information on climate risks and impacts in order to make informed decisions.

<u>Decision-makers:</u> users of climate information representing all public and private sectors of activity. These are our climate stakeholders.

Key Services

Generate, transmit, transform, translate

- Monitoring value add, trends, anomalies
- Data instrumentation, collection, database
- Prediction interpretation, place/sector based
- Outreach informing decisions, accessibility
- Education capacity building for understanding
- Research applied, useable
- Networks awareness, linkages, sharing

NOAA Regionally Integrative Programs







7. Southeast & Caribbean Region