

# Applying Climate Information in Decision Support Services (DSS)

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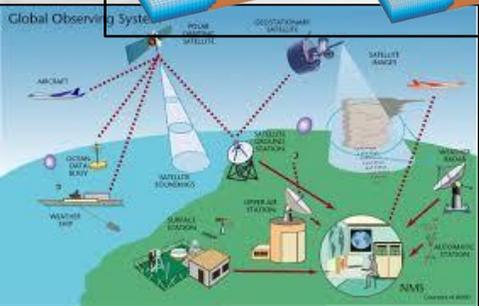
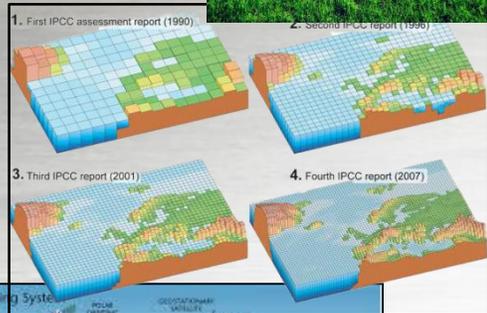
Climate Services Branch

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# Climate DSS

- Climate DSS includes engagement, collaboration, and provision of interpretative services of sub-seasonal to seasonal (S2S) information to federal, state, local, tribal, and territorial government partners dealing with climate-sensitive water resources, agriculture, disaster risk reduction, energy, and health to enable them to prepare for and respond to disruptive weather, water, and climate events
- S2S information includes data, potential risks, vulnerability analyses, assessments, predictions, and longer-term projections
- It is this **S2S DSS** that enables stakeholders to be “climate-smart” and thus weather-ready

# Science-Based Decision Making



Decision

Impact

Analysis

Data

# S2S DSS Process

Weather,  
Water &  
Climate

Observations  
& Monitoring

Analysis &  
Models

Products &  
Services

Dissemination &  
Communications

Perception  
Interpretation

Uses /  
Decision  
Making

Outcomes

Economic  
& Social  
Values

# S2S DSS Need for Information



## Water Resources

- Drought
- Flood
- Precipitation
- Temperature
- Evaporation



## Disaster Risk

- Heat
- Flood
- Snow storms
- Tornadoes
- Hurricanes
- Hail
- Wildfires



## Energy

- Temp & Precip Climatology
- Trends
- Degree Days
- Winds
- Solar Insolation
- Water Resources for Hydropower



## Agriculture

- Drought
- Precipitation
- Frost/Freeze
- Extreme Heat
- Evaporation



## Health

- Heat
- Flood
- Temperature range
- Air Quality



## Media

- Interpretation
- Event Outreach
- Soundbite messages
- Impacts and uncertainty
- Social Media