

# **An Overview of CPC's Development Branch**

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# Current Major Activities

- **Global and Regional Climate Analysis**
- **Real-time Global Climate Monitoring**
- **Forecast Tool Development/ Improvement**
- **Predictions, Verifications, and Expert Assessments**
- **Climate Diagnostics and Attribution**
- **Applied Research**
- **Outreach and Service**
- **International Activities**
- **Climate Test-Bed**

# Climate Monitoring Activities

- **State of the oceans**
    - *State of Global Oceans*
    - *Variations in tropical eastern Pacific--El Niño & La Niña*
    - *Global Climate Impacts of Sea Surface Temperatures*
  - **Surface monitoring**
    - *Global rainfall*
    - *Global land surface Temperature*
    - *Soil moisture & Drought Monitoring*
  - **Atmospheric circulation**
    - *Atmospheric indices (PNA, NAO, AO, MJO,...)*
    - *Satellite monitoring (e.g., outgoing longwave radiation)*
    - *Climate Reanalysis*
  - **Stratospheric circulation and variability**
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# Prediction And Assessment Activities

- **UV index (daily)**
- **ENSO Diagnostics Discussion & Outlook (monthly, weekly update)**
- **Seasonal Hurricane Outlooks (Atlantic and Eastern Pacific - issued in May, updated in August)**
- **Dynamical Forecasts: Climate Forecast System (CFS)**
- **Routine briefings**
  - *Global monsoon*
  - *State of the ocean*
  - *Drought*
  - *ENSO update*
  - *Other briefings – CPC International Desks*