

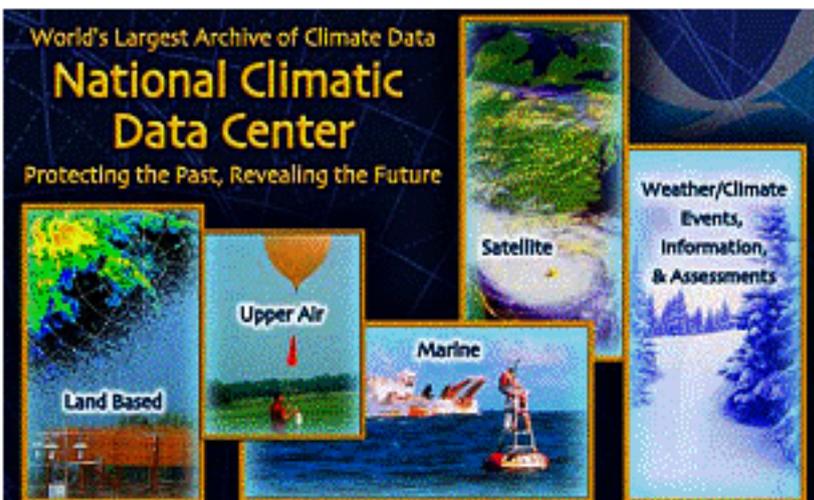
CDC (Climate Diagnostic Center) develops national capabilities to analyze, interpret, and forecast important climate variations on time scales ranging from a few weeks to centuries.

<http://www.cdc.noaa.gov/index.html>

Archived Climate Data & Services

All data gathered is stored and archived at the National Climatic Data Center (NCDC) in Asheville, NC.

<http://www.ncdc.noaa.gov/oa/ncdc.html>



A variety of climate data is available on line and can be searched by county, geographical region, data set/product, or map services. Data is free to NOAA and .edu users.

Upper Air Inventory and Quality Assurance Reports:

<http://www1.ncdc.noaa.gov/pub/data/ua/2004/>

<http://www1.ncdc.noaa.gov/pub/data/ua/reports/>

Local climate data (from COOP reports):

<http://www5.ncdc.noaa.gov/pubs/publications.html>

LCD Data:

<http://www.ncdc.noaa.gov/oa/pdfs/lcd.html>

Storm Events Database:

<http://www4.ncdc.noaa.gov/cgi-win/wwwcgi.dll?wwwevent=storms>

Official Climate records for mitigation, legal proceedings and insurance claims are only available through NCDC.

Additional Climate Data & Services

Marine Data:

<http://www.vos.noaa.gov>

http://www.ndbc.noaa.gov/ship_obs.php

Bouy Data:

<http://www.pmel.noaa.gov/tao/>

COOP Data:

<http://nws.noaa.gov/om/coop/>

Surface Data:

<http://www.nws.noaa.gov/ops2/Surface/>

Upper Air Data:

<http://www.ua.nws.noaa.gov>

<http://www.crh.noaa.gov/tandax/>



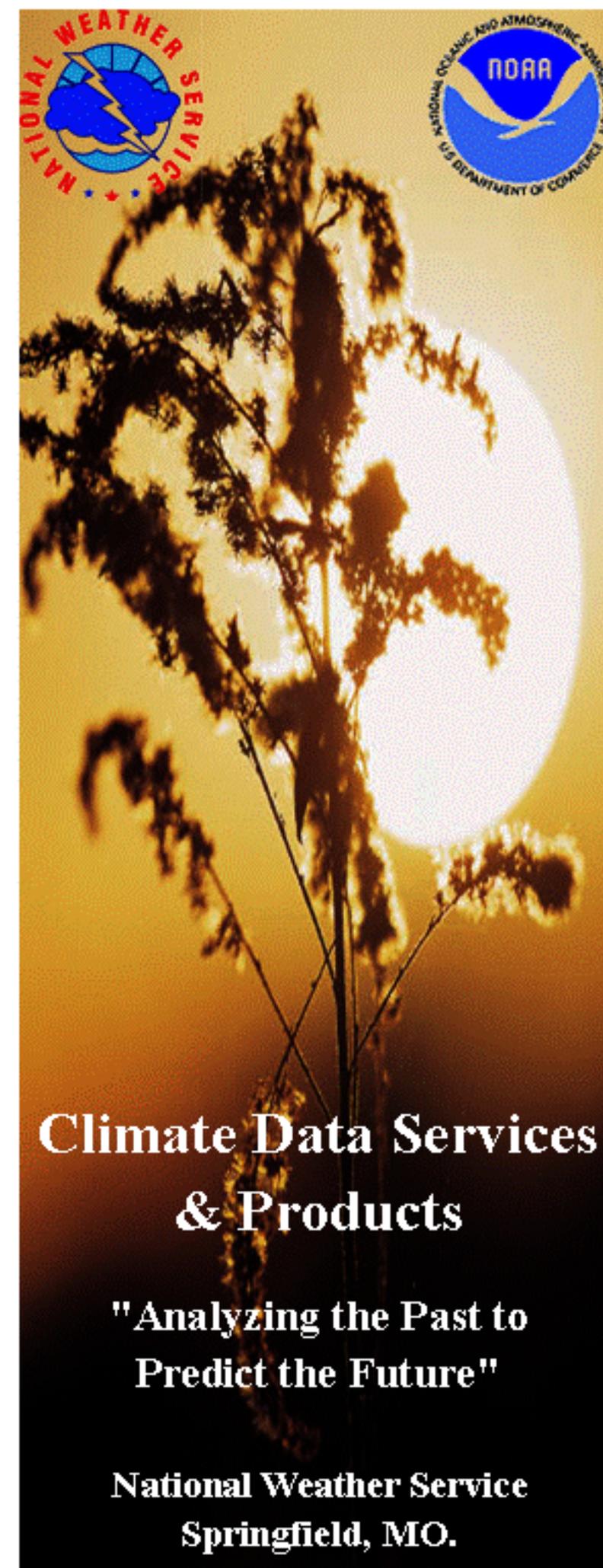
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Climate Data Services & Products

"Analyzing the Past to Predict the Future"

National Weather Service
Springfield, MO.

Climate Data & Services

Climate Data is based upon the collection, quality control, and archival of meteorological and climatological data. High quality and accurate data is necessary to maintain the climate record and to use the data effectively.

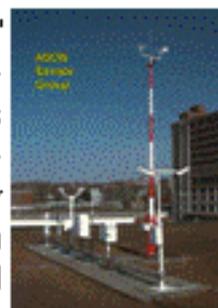
Data is collected through a system of integrated atmospheric, oceanic and terrestrial observations. This information improves our understanding of past climate variations and helps us create more reliable climate predictions.

High quality data is gathered using a variety of methods:

- *Upper air releases (radiosondes attached to a balloon) for atmospheric data*
- *The TAMDAR project and other similar Aircraft reports such as PIREP's*
- *Surface observations and the Cooperative (COOP) volunteer network for terrestrial data*
- *VOS program (Volunteer Observing Ships) for ocean data*
- *Buoy Data from the TAO Array in the Pacific ocean*
- *Satellite gathered and derived information*

Local Climate Data & Services

Weather Forecast Offices or "WFOs" gather local data from Automated Surface/Weather Observing Systems (ASOS/AWOS), manual surface observations, COOPs, spotters and other volunteer observers. Using this data the WFOs produce a series of local data products:



- Preliminary Climate Data (**F-6**) is the unofficial daily and monthly summary
- Climate Report for the day (**CLD**) is the official 24 hour record for a local station

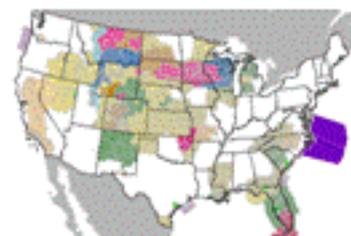
- Climate Record for the Month (**CLM**) is the official monthly record for a local station
- Report of Record (**RER**) is the unofficial daily report of meteorological conditions that exceed one or more daily records

All this information is ingested, archived, quality controlled, processed and delivered to the public at the local WFO. **This makes the local WFO the first and most important step from data collection to data distribution and services.**

Data from any WFO can be found by starting at:

<http://www.nws.noaa.gov/>

Then navigate to the office you are interested in by selecting your location.

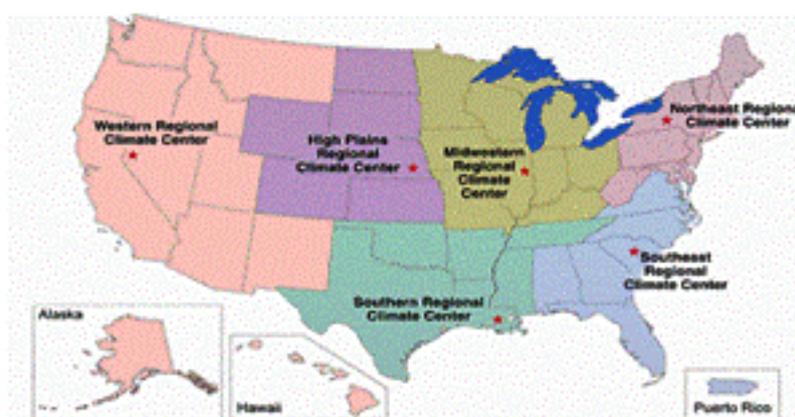


In addition, each state has its own **State Climatologist** who maintains state records. State Climatologists, in association with the American Association of State Climatologists work closely with the National Weather Service to provide climate information to the public.

Missouri State Climate web: <http://www.mcc.missouri.edu/>

Regional Climate Data & Services

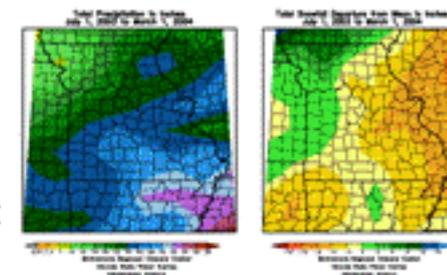
The Regional Climate Centers have developed an Applied Climate Information System (ACIS) that contains near real time climate data for WFO and public needs.



There are six Regional Climate centers across the United States including Puerto Rico.

XmACIS – Hosted Regional Climate Centers (RCC's), will provide near real time automated updates of retrospective data to match NCDC quality levels.

Central Region WFOs can access this data locally to aid in local studies, compositing, customer requests and localized 3 month outlooks. The WFO can also utilize the graphical output produced by the Regional Climate Centers.



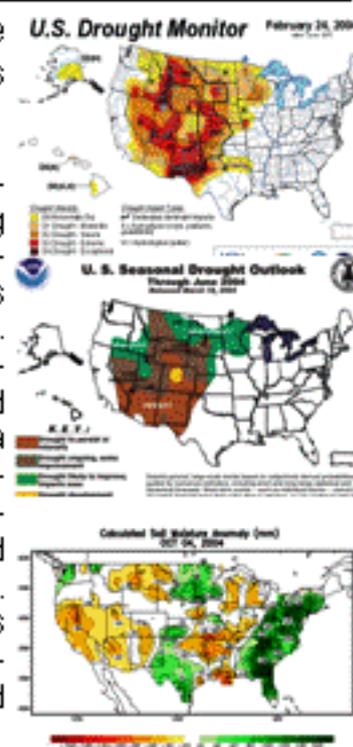
To access information from the Regional Climate Centers follow the links below:

1. **Western Regional Climate Center:**
<http://www.wrcc.dri.edu/index.html>
2. **High Plains Regional Climate Center:**
<http://www.hprcc.unl.edu/index.html>
3. **Midwest Regional Climate Center:**
<http://sisyphus.sws.uiuc.edu/index.html>
4. **Southern Regional Climate Center:**
<http://www.srcc.lsu.edu/>
5. **Southeast Regional Climate Center:**
<http://www.sercc.com/>
6. **Northeast Regional Climate Center:**
<http://www.nrcc.cornell.edu/index.html>

National Climate Data & Services

NOAA and the NWS operate many National Climate Centers including:

CPC (Climate Prediction Center) produces Medium and Long range forecasts. They also produce El Niño/La Niña forecasts and monitor drought in the U.S. CPC meteorologists and oceanographers review climate and weather observations and data along with model results; assess their meaning, significance, and current status; and likely future climate impacts. Their findings are issued as assessments, advisories, special outlook discussions, and bulletins.



<http://www.cpc.ncep.noaa.gov/index.html>