

Data Inventory

A list of climate datasets available at the SRCC

Notes:

Information available, locally, at the SRCC

Information available through the NCDC. SRCC can assist in obtaining these data

NATIONAL DATASETS

Local Climatological Data, Edited

Publication by month for major US cities showing 3-hourly, daily, & monthly values.

Local Climatological Data Edited Subs (LCD)

Online access to all previous & future data for one year from date of purchase.

Local Climatological Data Unedited (ULCD)

Monthly form for approx 800 US sites showing daily temps/precip. Also hourly data

Edited Local Climatological Data Annual (LCD)

Annual summary of monthly temp/precip/rh/wind/hdd/cdd. Normals/extremes

Edited Local Climatological Data Annual Sub (LCD ASCII ONLY)

Online access to all previous & future data for one year from date of purchase.

Unedited Surface Weather Observations (SWO)

Hourly ASOS/AWOS obs for most U.S airports

Unedited Surface Weather Obs. Subs (USWO)

Online access to all previous & future data for one year from date of purchase.

COOP Data / Record of Climatological Observations (COOP)

Daily temp/precip/snow/evap/soil temp 8000 US sites. Some PDF available

COOP Subscription (COOP)

Online access to all previous & future data for one year from date of purchase.

Climatological Data (CD)

Monthly pub of daily temps, precip, snow, evap, soil temp, hdd/cdd for 8000 US sites

Climatological Data Subscription (CD)

Online access to all previous & future data for one year from date of purchase.

Annual Climatological Summary Subs

Monthly temp/precip/hdd/cdd. Number of rain days. 8000 US sites

Combined Subs (ALL ULCD ANCSUM COOP SWO)

Online access to four subscription products for one year from date of purchase.

Storm Data (SD)

State/county listing of tornados, thunderstorms, wind, hail, flood by date

Hourly Precipitation Data (HPD) publication

Hourly precipitation total for approx 2800 U.S. sites. Also short term maximums

Daily Normals (CLIM84)

Daily normals of temperature, precipitation, hdd/cdd. Pdf and ASCII

Monthly Normals (CLIM81)

Monthly normals of temperature, precipitation, hdd/cdd. Pdf and ASCII

Monthly Precipitation Probabilities (CLIM81, SUP 1)

10%, 50%, 90% US monthly and annual precipitation probabilities. Pdf and ASCII

- Annual Degree Days to Selected Bases (CLIM81, SUP 2)
 - Annual US heating/cooling degree days to selected bases. Pdf and ASCII
- Maps of Annual 1961-1990 Normal Temp, Precip & Degree Days (CLIM81, SUP 3)
 - Annual US maps of 1961-90 temp, precip, hdd/cdd. Pdf and low/high res jpeg
- Monthly Divisional Normals & Standard Deviations (CLIM85)
 - Monthly/annual US divisional normals-standard dev for temp, precip, hdd/cdd
- Substation Climatic Summary (CLIM20)
 - Monthly US normals of temp/precip,hdd/cdd, freeze probabilities, growing deg days
- Freeze/Frost Data (CLIM20, SUP 1)
 - Freeze/Frost Occurrence US State/Station 90 - 50 - 10% probability
- NWS Snow Normals 1971-2000 (CLIM20, SUP 2)
 - US daily/monthly snowfall/snowdepth/number of snow days w/ ≥ 0.1 " or 1.0"
- Population-Weighted State, Regional, and National Monthly Degree Days (HCS 5:1-2, 2)
 - US heating & cooling degree day, temp and precip data/ updates. pdf and ASCII
- Area-Weighted State, Regional, and National Monthly and Seasonal Temp.and Precip. (HCS 4-1;2;3)
 - US Monthly & seasonal temp and precip/ updates. pdf and ASCII
- Climate Maps of the United States
 - US color climatic maps for temp/precip/snow/wind/pressure
- US Summary of the Day Data
 - US Daily temp/precip/snow/evap/soil temp 8000 sites. Other elements for larger cities
- Hourly Precipitation Data (TD 3240)
 - About 2800 U.S. stns currently active. Hourly precip amounts
- US 15-Minute Precipitation Data (TD 3260)
 - US & non-US stns in US territories/15-min precip data . 2000 active stations
- Monthly Climatic Data for the World (TD 3500)
 - Monthly avg temp, total precip, avg slp for larger cities worldwide
- US Monthly Climate Normals
 - CDROM - Monthly/annual, 1971 - 2000 normals of mean/max/min temp, precip, hdd/cdd. ASCII and .pdf format
- NCDC Cooperative Station Data
 - CDROM - Daily max/min temp, precip,snowfall,evap,soil temp. Mostly 1940's-2001
- International Station Meteorological Climate Summary Ver 4.0
 - CDROM - Detailed climate summaries for 2600 sites. Limited summary for 4000 other sites
- Engineering Weather Data
 - CDROM - Tables/graphs of temps/rh/dewpoints/winds for building designs. 800 global sites
- Climate Atlas of the United States
 - CDROM - Displays over 2000 maps of temp, precip, snow,etc using ESRI's ArcExplorer
- Hourly United States Weather Observation 1990 - 1995
 - CDROM - Hourly obs of temp, visibility, wind, pressure, etc for 262 NWS sites 1990-95
- Integrated Surface Hourly Observations
 - CDROM - Routinely observed hourly weather elements for approx 12,000 global sites
- Solar and Meteorological Surface Observational Network
 - CDROM - Hourly solar radiation data/selected meteorological elements, 1961-1990.
- US Divisional and Station Climatic Data and Normals Vol. 1.0
 - CDROM - 1961-90 and earlier normals of temp, precip, hdd/cdd,palmer drought
- US Navy Marine Climatic Atlas of the World - Ver. 1.1 (other elements)
 - CDROM - Allows user defined 1-5deg grids for summaries of wind, wave hgt, temp, dewpoint
- Global Climate Normals 1961 - 1990
 - CDROM - Standard climate summaries for approx 4000 sites in 135 countries
- Global Upper Air Climatic Atlas

CDROM - 2.5deg gridded summaries of temp,dewpoint, geopotential hgt, vector/scalar wind
US Hourly Precipitation Data
CDROM - Hourly precip for approx 2500 active stations/ 7000 total stations1948-98.
Radiosonde Data of North America
CDROM - All available radiosonde data; hgt, temp, dewpoint, wind thru 100mb
Global Surface Summary of the Day
Global surface daily data for over 8000 active stations
temp/dewp/slp/stp/visib/wdsp/mxspd/gust/snowdepth/precip
Global Historical Climatology Network
Baseline global data set for monitoring climate change of monthly temp, precip, pressure.
Extreme WX & Climate Events
Maps/ reports of U.S. and global extreme temp, precip, wx events US Storm Events Database
Climatic Wind Data for US
1930-96. Mean wind speed, prevailing direction, peak gust for 321 locations
Comparative Climatic Data
Monthly mean for US temperature, precip, rh, number of days with rain/tstm/fg/clouds *
NCEP Charts
Most commonly requested surface and constant pressure charts
Locate a Weather Station (WebCliserv)
US station id, lat/lon and elevation, data holdings, online data, and station history.
Climate Visualization
Interactive graphing tool for visual browsing of some of the data available on-line
NEXRAD
National base reflectivity U.S. composite radar images
HCS Heating & Cooling Degree
US monthly updates of state/reg/national hdd/cdd/avg temp/precip 1993-most recent
Climates of the World HCS 6-4
Old climate summary: 1931-60. Maps of avg/extreme temps and precip for U.S.
USHCN US Historical Clim Network
High quality dataset of monthly temp, precip from 1221 U.S sites 1900-95
Products & Service Guide
Summary of datasets, publications, subscriptions, and services available at NCDC
Conversion and Decoder Charts
Frequently requested weather decodes and conversion chart
Enviromental Info Summaries (EIS)
Brief descriptions/samples of various NCDC datasets and summaries
Climatic Data for Frost Protected Shallow Foundations (FPSF)
Provides builders, code officials with AFI(air freeze index) data for the US
US Monthly Surface Data (TD 3220)
Monthly mean max/min temperature, total precipitation, evap., soil temp, 8000 active stations
Integrated Surface Hourly
Global surface observational data for over 10,000 active stations
Climate Reference Network
A coordinated network of U.S. climate stations now being developed to provide long-term observations
NEXRAD Level II and III Digital Data
NEXRAD Level II and III digital data for all radar sites, for the full period of digital record
Rainfall Frequency Atlas of the US
1-100 return periods/1-24 hour durations for precipitation frequency
HSEI Satellite Data: Images

Hundreds of satellite images and some movies of major weather and geological events

UNOFFICIAL NWS DATA ARCHIVES

NWS Forecasts and Advisories

Text-based summaries of NWS forecasts and advisories for the entire U.S.

National Hurricane Center Forecasts and Advisories

Text-based summaries of NHC forecasts and advisories for the entire U.S.

NWS Severe Storm Reports

Text-based summaries of NWS severe storm reports and summaries for the entire U.S. Reports include geo-referenced reports of tornado, hail, and severe wind observations.

LOCAL and REGIONAL DATASETS

Louisiana AgriClimatic Information System (LAIS)

A system comprised of twenty-six (26) automated stations operated by the Louisiana Agricultural Experiment Station. Includes daily and hourly observations of temperature, precipitation, wind speed and direction, relative humidity, solar radiation, and soil temperature. A specialized dataset is available that includes 1-minute observations of precipitation.

Automated Weather Data Network (AWDN)

An extensive network of stations operated by the High Plains Regional Climate Center covering states in the High Plains region of the Central U.S. Observations are similar to those of the LAIS (above). Data are available through subscription via the Applied Climate Information System (ACIS) offered through the CLIMOD interface.