

USGCRP Global Change Information System (GCIS)

ESIP Winter Meeting
January 6, 2016

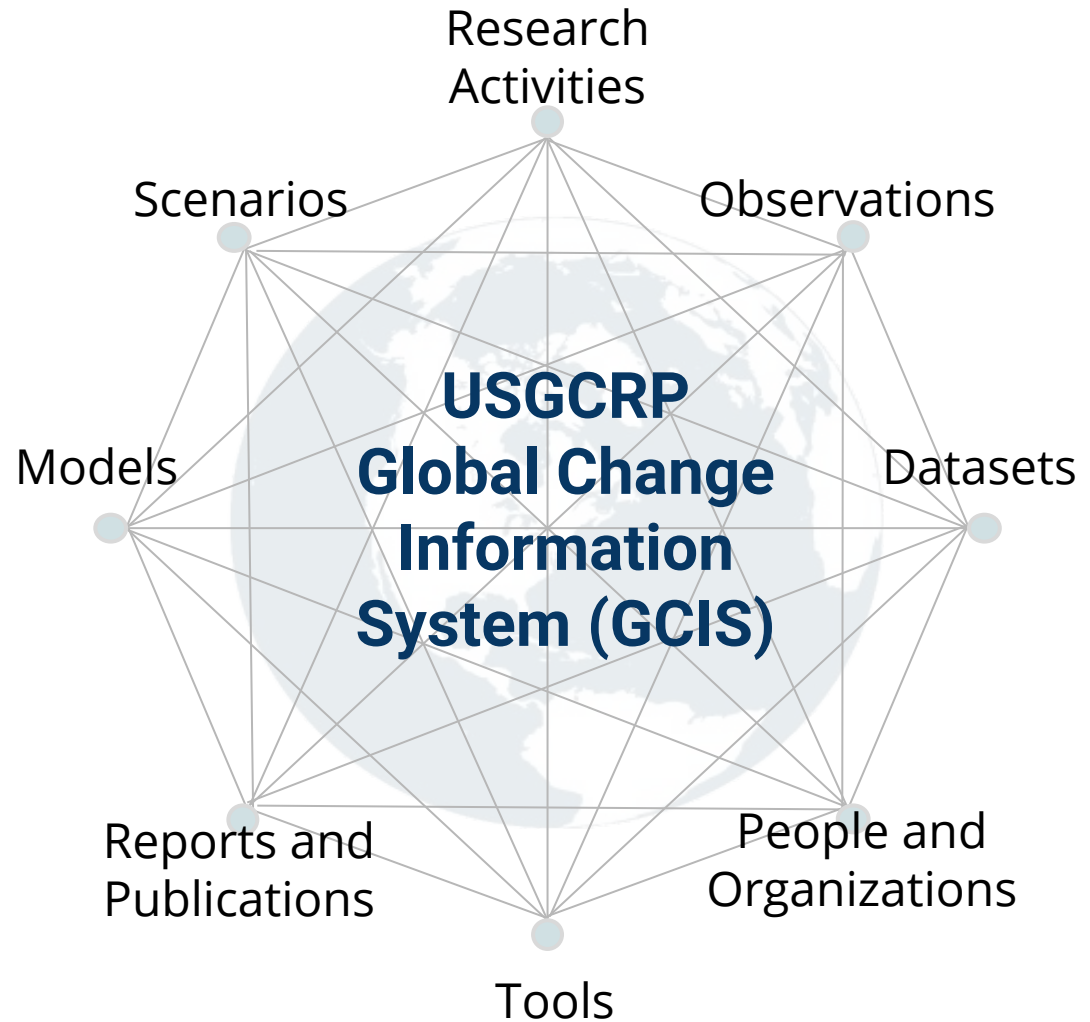


U.S. Global Change
Research Program



What is GCIS?

GCIS **connects** global change information for scientists, decision makers and the public.



Why GCIS?

The U.S. Global Change Research Program (USGCRP) established the Global Change Information System (GCIS) to better **coordinate and integrate** the use of Federal information products on **changes in the global environment** and the implications of those changes for society.



What does GCIS do?

Capture

Direct and automated retrieval from contributors, agency data centers, publishers, agency partners, etc.

Identify

Assign persistent, resolvable, controlled identifiers.

Organize

Capture and represent relationships between elements, across data center and agency boundaries.

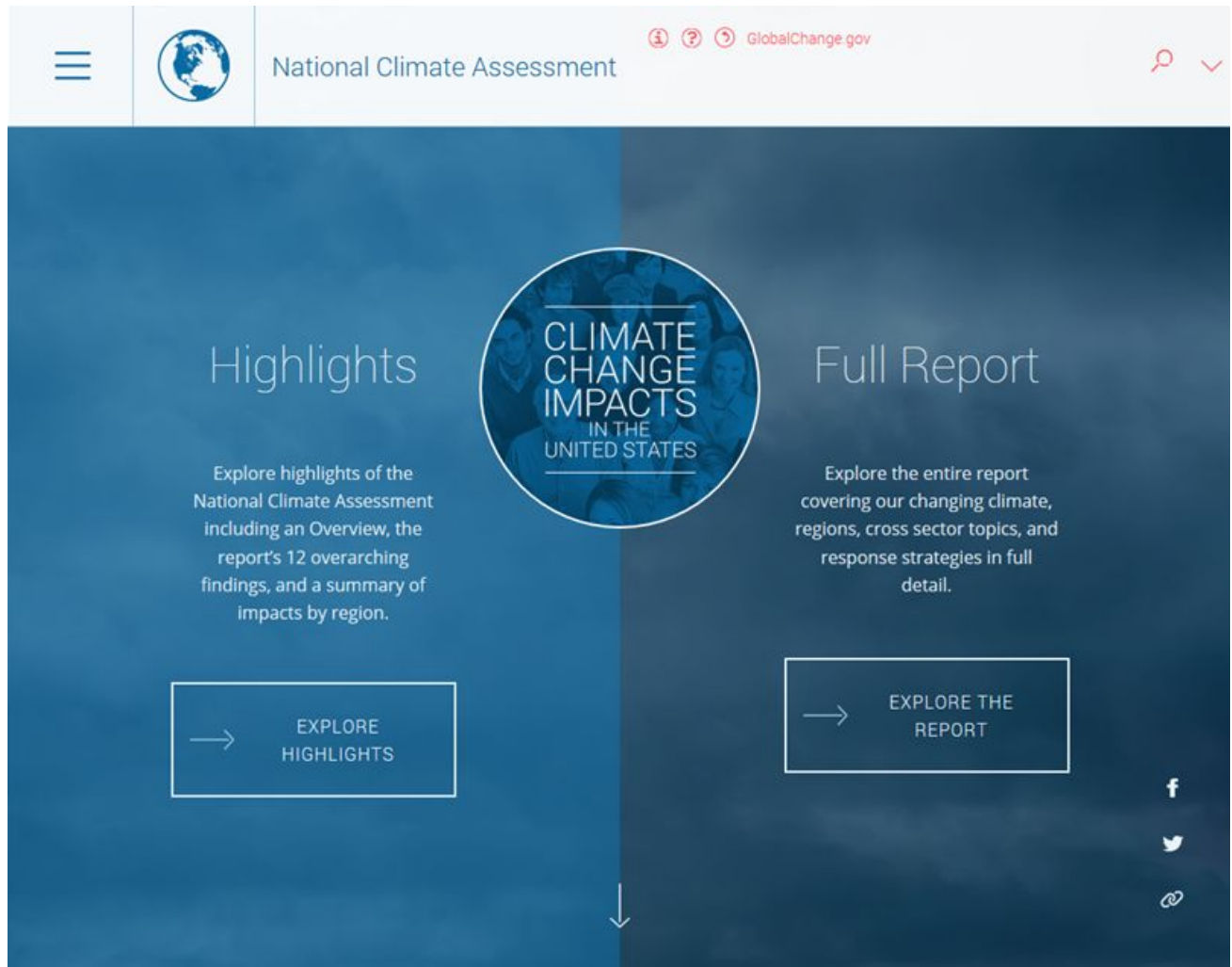
Present

Provide interfaces to retrieve, search and mine structured metadata

Maintain

Develop tools and processes to ensure quality and integrity of content over time.





nca2014.globalchange.gov

Figure Metadata

Figure : observed-us-temperature-change

Observed U.S. Temperature Change

Figure 2.7

Cooperative Institute for Climate and Satellites - NC

Kenneth Kunkel

This figure appears in chapter 2 of the *Climate Change Impacts in the United States: The Third National Climate Assessment* report.

The colors on the map show temperature changes over the past 22 years (1991-2012) compared to the 1901-1960 average, and compared to the 1951-1980 average for Alaska and Hawaii. The bars on the graphs show the average temperature changes by decade for 1901-2012 (relative to the 1901-1960 average) for each region. The far right bar in each graph (2000s decade) includes 2011 and 2012. The period from 2001 to 2012 was warmer than any previous decade in every region. (Figure source: NOAA NCDC / CICS-NC).

When citing this figure, please reference NOAA NCDC / CICS-NC.

This figure was created on August 03, 2013.

This figure is composed of these images :

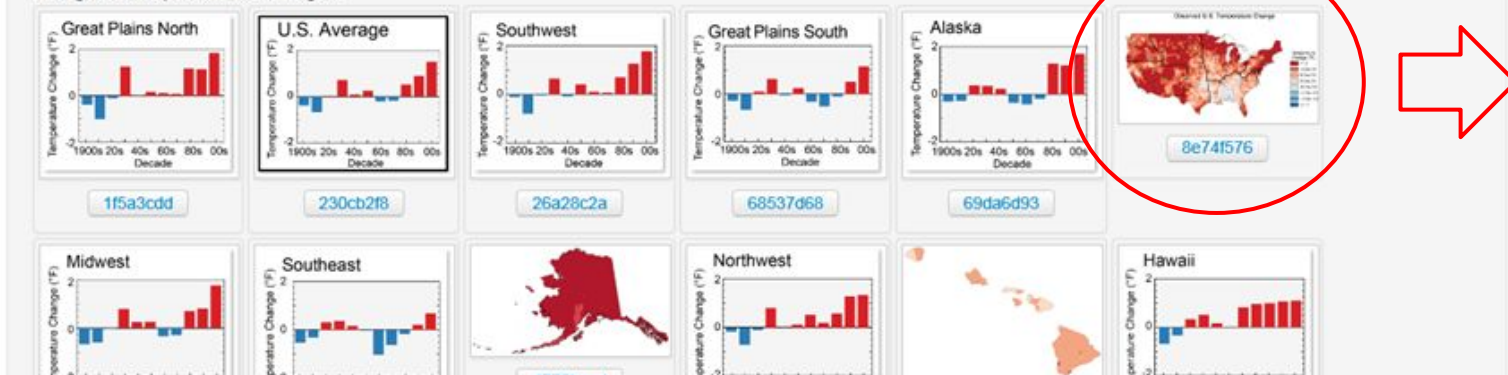
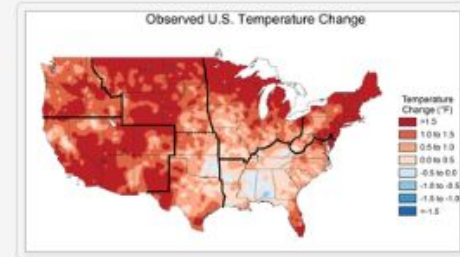


Figure Metadata (cont.)

image : 8e74f576-a5af-46c0-b33a-f30072118b86

Observed U.S. Temperature Change Map - Contiguous U.S.

National Oceanic and Atmospheric Administration National Climatic Data Center
Russell Vose



The time range for this image is January 01, 1901 (00:00 AM) to December 31, 2012 (00:00 AM).

This image was created on August 01, 2013.

The spatial range for this image is 24.50° to 49.38° latitude, and -124.80° to -66.95° longitude.

Attributes : Contiguous U.S., temperature, observed.

This image was derived from [dataset nca3-cddv2-r1](#) using the activity [8e74f576-nca3-cddv2-r1-process](#).

This image is part of this figure :

Dataset

Activity

