

# Curating a Multiagency Set of Federal Climate Indicators

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The U.S. Global Change Research Program (USGCRP) commissioned the curation of a set of climate-relevant indicators, which are “observations or calculations that can be used to track conditions and trends”. These are considered to be “an important part of the vision for the sustained National Climate Assessment (NCA).” To this end, an interagency workgroup is managing a set of curated indicators, and working toward highlighting various efforts across the federal government related to climate indicators and how they can be leveraged for communicating key aspects of climate change. Much of this work draws on data, tools, and expertise already in place at NOAA's National Centers for Environmental Information and the Cooperative Institute for Climate and Satellites - North Carolina, both located in Asheville, NC. This poster will briefly describe the background, goals, and structure of the USGCRP Indicators effort, and plans for growing - and using! - this set of “Assessment-grade” quality indicators, and insights into the indicator “platform” that spans deeper efforts by several USGCRP agencies. Interaction with, and guidance from, global monitoring professionals is highly anticipated!

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### USGCRP Indicator Platform

The indicator platform is an interagency collaboration that leverages efforts from across the USGCRP agencies and highlights key climate information in the form of indicators that:

- Provide foundational science in support of USGCRP sustained assessment products including the National Climate Assessment
- Showcase examples from Federal agency-specific indicator efforts
- Connect Federal agency research and science to USGCRP priorities

JUMP TO →

- Indicators of Change
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#### Indicators of Change

Climate indicators show trends over time in key aspects of our environment including:

- Greenhouse gas levels in the atmosphere
- Temperatures across land and sea
- Extent of Arctic sea ice

Indicators based on long-term, consistently collected data can be used to:

- Understand how our climate and environmental conditions are changing
- Consider and assess risks and vulnerabilities
- Help us prepare, take action, and improve resilience to the impacts of climate change

Learn About Trends in Climate Change

Temperature ↑ | Heavy Precipitation ↑ | Western U.S. Snowpack ↓ | Arctic Sea Ice Extent ↓ | Heat Waves ↑ | Sea Level ↑ | Marine Species Distribution ↑ | Wildfires ↑ | Drought Conditions ↓ | Hawaii Ocean Acidity ↑ | Growing Season Length ↑ | Heating Degree Days ↑ | Cooling Degree Days ↓

Source: Fourth National Climate Assessment (NCA4, Overview Chapter)

VIEW STATIC IMAGE

Long-term observations provide evidence of warming in the climate system and the effects of increasing atmospheric greenhouse gas concentrations. This figure shows several climate-relevant indicators of change based on data collected across the United States. (NCA4, Overview Chapter)

#### Explore USGCRP Indicators

- Annual Greenhouse Gas Index
- Arctic Sea Ice Extent
- Atmospheric Carbon Dioxide

VIEW ALL

**Figure 1.** The USGCRP Indicators Platform at <https://www.globalchange.gov/browse/indicators>. This newly redesigned website includes a suite of 16 climate change indicators, as well as links to related federal resources.