

# Climate Literacy Initiatives from the Cooperative Institute for Meteorological Satellite Studies



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Addressing the complexity and scale of climate change-related challenges requires effective partnerships to raise climate literacy and galvanize meaningful responses to climate change. This poster presents several collaborative efforts to engage the public in formal and informal settings that originate from CIMSS at the University of Wisconsin-Madison.

## TEACHER WORKSHOPS



CIMSS trains middle and high school science teachers to be *Climate Literacy Ambassadors* in their schools and communities through workshops and on-line resources. About half of all CIMSS workshops take place on the UW-Madison campus, but many coincide with summer gatherings of the Earth Science Information Partners (ESIP).



## SCIENCE ON A SPHERE (SOS) CONTENT AND SUPPORT

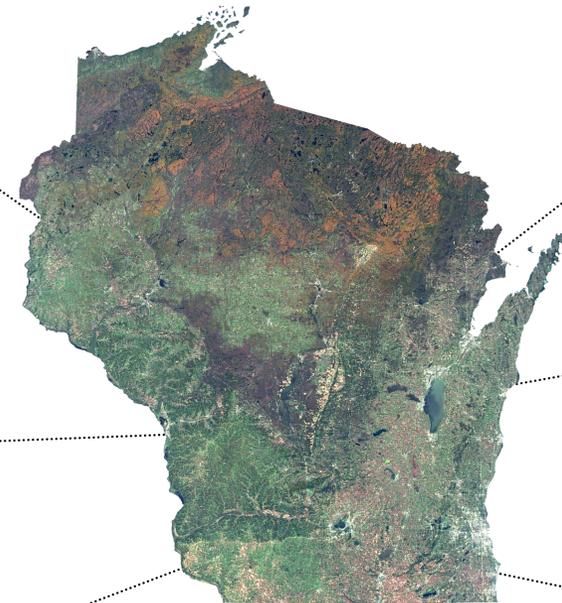
CIMSS is leading an effort to create visualizations for Science On a Sphere (SOS) exhibits using near real-time data such as NOAA NCDC's monthly climate report and seasonal outlooks. Along with producing large animations for SOS exhibits with background content for museum docents, small videos (with audio) are being created for mobile viewing and made freely available in the digital domain via a blog-style website called EarthNow. <http://sphere.ssec.wisc.edu/>



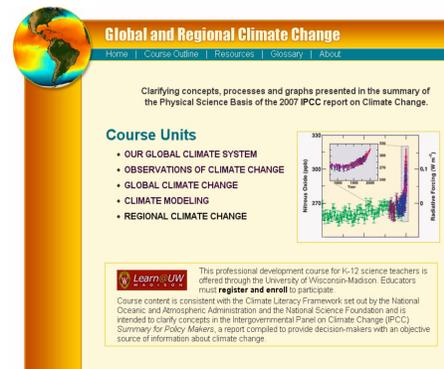
## STUDENT WORKSHOPS



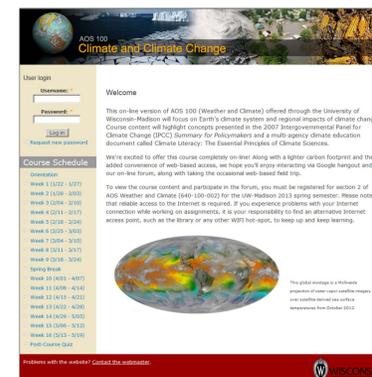
CIMSS has conducted a summer science camp for high school students since 1991. Climate-related content has gradually increased to include multiple sessions including a field trip to a near-by interactive climate change exhibit at the Aldo Leopold Nature Center.



## ON-LINE CURRICULUM



CIMSS has an asynchronous course created specifically for G6-12 science teachers. <http://cimss.ssec.wisc.edu/climatechange>



In 2013 CIMSS offered an on-line climate change course for college students. <http://cimss.ssec.wisc.edu/wxfest/>



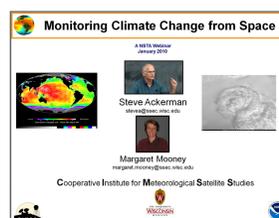
In Wisconsin, CIMSS/SSEC pioneered the use of a spherical display system to convey weather and climate concepts with a "mini-SOS" located in the Atmospheric, Oceanic & Space Science building powered by solar panels on the roof, modeling the Sun-Earth connection and the first principle of climate literacy.

## TECHNOLOGY LENDING LIBRARY



The CIMSS iPad Library loans iPads to science teachers for an entire school year to help engage students in data acquisition and regional climate studies using apps like SatCam where users collect observations of cloud and surface conditions coordinated with an overpass of the Terra, Aqua, or Suomi NPP satellite.

## WEBINARS



CIMSS presents webinars on climate-related topics to reach remote audiences with minimum carbon footprint.

Humans can take actions to reduce climate change and its impacts.

