

## **Taking the Pulse of our Planet:**

### *Volunteers Needed to Track Seasonal Signs of Climate Change*

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Volunteers across the nation are being recruited to get outdoors and help track the effects of climate on seasonal changes in plant and animal behavior.

The USA-National Phenology Network (USA-NPN), a consortium of government, academic and citizen-scientists, is launching a new national program built on volunteer observations of flowering, fruiting and other seasonal events. Scientists and resource managers will use these observations to track effects of climate change on the Earth's life-support systems.

“This program is designed for people interested in participating in climate change science, not just reading about it,” said USA-NPN Executive Director and U.S. Geological Survey scientist Jake Weltzin. “We encourage everyone to visit the website ([www.usanpn.org](http://www.usanpn.org)) and then go outside and observe the marvelous cycles of plant and animal life.”

Phenology is the study of the seasonal cycles of plant and animals, such as plants sprouting, flowering and fruiting, and animals reproducing, migrating and hibernating. Changes in these patterns, caused by climate change or other factors, can significantly affect human economies and health. In some areas, such changes have already imperiled species, such as in the disappearance of some wildflowers from near Walden Pond, home of the famed 19th-century naturalist Henry David Thoreau.

The USA-NPN monitoring program harnesses the power of people and the Internet to vastly increase the data available to scientists and the public alike, Weltzin said. The program provides easy-to-use methods to track the life cycles of nearly 200 species of plants, and will begin monitoring animals next year.

Mark D. Schwartz, a professor at the University of Wisconsin-Milwaukee and chair of the USA-NPN board of directors, said monitoring changes in seasonal events across large areas helps researchers forecast the effects of global climate change on plants, animals, and ecosystems.

Among other uses, data collected by USA-NPN will help resource managers predict wildfires and pollen production, detect and control invasive species, monitor droughts, and assess the vulnerability of various plant and animal species to climate change.

The USA-NPN, based at The University of Arizona in Tucson, is built upon partnerships among citizen scientists, government agencies, non-government organizations, academic researchers, educators and the public. The rapidly expanding network includes collaborations among the U.S. Geological Survey, University of Wisconsin-Milwaukee, The University of Arizona, U.S. Fish and Wildlife Service, and The Wildlife Society. Project BudBurst, a major partner of the USA-NPN, is launching its second season of plant phenology monitoring at [www.budburst.org](http://www.budburst.org)

Link to press release: <http://www.usgs.gov/newsroom/article.asp?ID=2151>