

Taking the Pulse of Our Planet

TIMING IS EVERYTHING

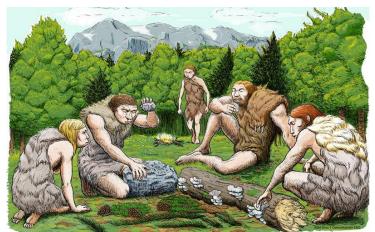
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CITIZEN SCIENTISTS











nature's notebook A project of the USA-NPN

BENEFITS OF THE PARTNERSHIP





THE UNIVERSITY OF ARIZONA COLLEGE OF AGRICULTURE & LIFE SCIENCES

Natural Resources & the Environment



- Initiated in 2007
- \$14.5 M to UA
 - USGS: \$12 M (\$10 M direct expenditures)
 - Other sources (FWS, NASA, NSF, NOAA, Microsoft): \$2.5 M (\$2.2 M direct expenditures)
- 18 UA employees over the past 11 years (10 today)

- 23 UA students in 10 years
 - 9 graduate
 - 14 undergraduate
- 5 dissertations at UA & dozens globally
- 5 International visiting scholars
 - Mexico, Netherlands, Bhutan, Switzerland
- 56 peer-reviewed papers have used USA-NPN data or data products



RESEARCH SYNERGIES AT UA



College

College of Agriculture and Life Sciences

of Science

- Laboratory for Tree Ring Research
- Tumamoc Hill
- Ecology & Evolutionary Biology
- Biosphere 2

- SWES
- SNRE
 - SRER
 - AED

- Biosystems Engineering
- Campus Arboretum
- Entomology
- Extension

College

of Social and

Behavioral Sciences

- School of Geography and Development
- School of Information

College of Public Health

College of Education

Local Partnerships

- ASDM
- Tohono Chul
- Tucson Audubon
- Mission Gardens
- Ironwood Tree Exp
- **Borderlands Restoration**
- Tucson Botanical Gardens
- Watershed Management Group

Federal Partnerships in AZ

- USFWS Arizona Ecological Services
 - SW Climate Adaptation Science Center
 - Southwest Desert Research Station
 - Fish & Wildlife
 Coop Desert

Southwest

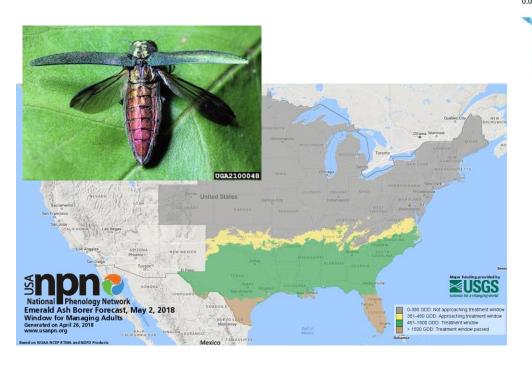
CESU

- BIO5
- CyVerse
- UA Libraries
- CNRS (France)

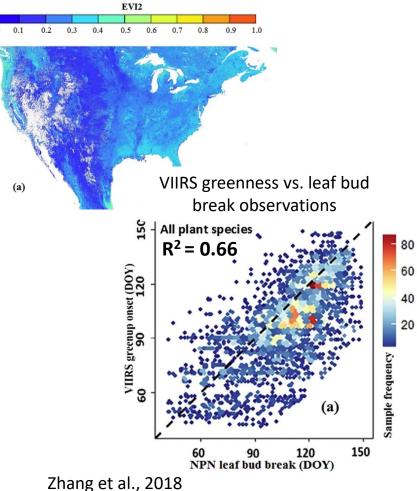
SCIENCE ADVANCES SUPPORT DECISION MAKING



 Pheno Forecasts: Short-term forecasts can guide pest insect control activities



Verifying satellite-based data and data products



Remote Sensing of the Environment