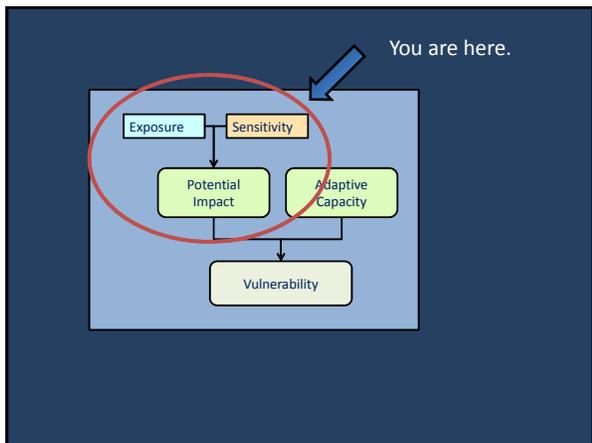


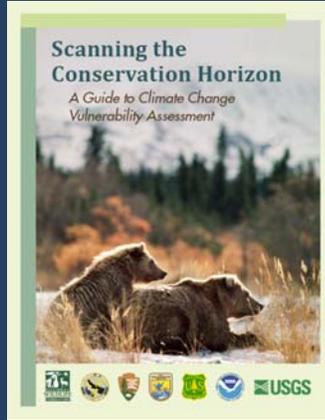
Ecological Response Modeling: Part II Applications









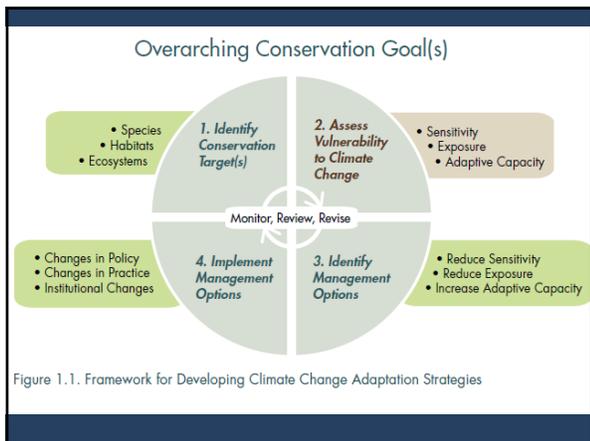


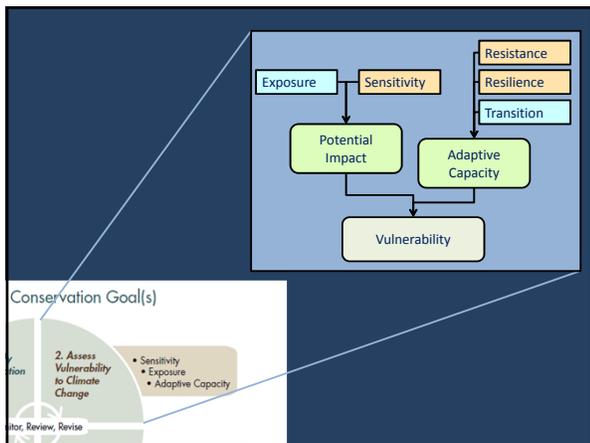
Scanning the Conservation Horizon
A Guide to Climate Change Vulnerability Assessment

A framework for Vulnerability Assessment under a changing climate

Glick, P., Stein, B.A., and Edelson, N.A., eds., 2011, Scanning the conservation horizon: A guide to climate change vulnerability assessment. Washington, D.C., National Wildlife Federation, 176 p.



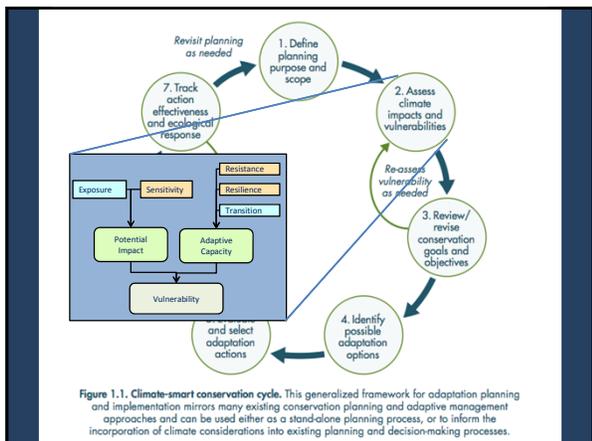




Climate-Smart Conservation
Putting Adaptation Principles into Practice

...helping put adaptation principles into practice, and moving adaptation from planning to action.

Stein, BA, P. Glick, N. Edelson, and A. Staudt (eds) 2014. Climate-Smart Conservation: Putting Adaptation Principles into Practice. National Wildlife Federation, Washington, D.C.



Conservation Biology

Special Section

Choosing and Using Climate-Change Scenarios for Ecological-Impact Assessments and Conservation Decisions

AMY K. SNOVER,*† NATHAN J. MANTUA,*† JEREMY S. LITTELL,*‡ MICHAEL A. ALEXANDER,§ MICHELLE M. MCCLURE,** AND JANET NYE††

- identifying primary local climate drivers by climate sensitivity of the biological system of interest
- determining appropriate sources of information for future changes in those drivers
- considering how well processes controlling local climate are spatially resolved and
- selecting scenarios based on considering observed emission trends, relative importance of natural climate variability, and risk tolerance and time horizon of the associated decision.

Eos, Vol. 94, No. 46, 12 November 2013

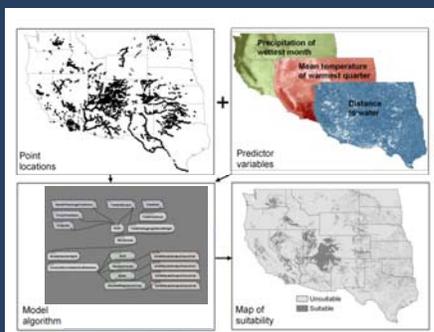
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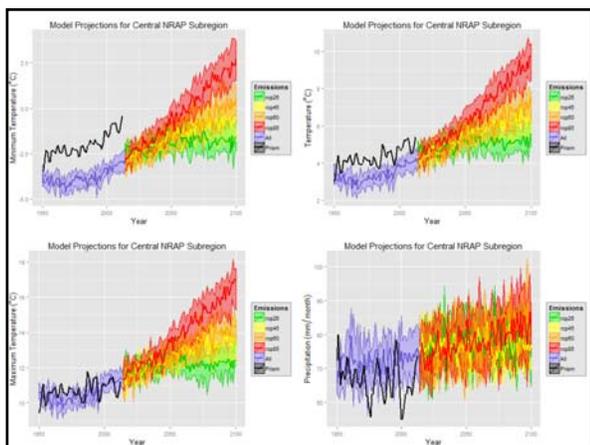
The Practitioner's Dilemma: How to Assess the Credibility of Downscaled Climate Projections

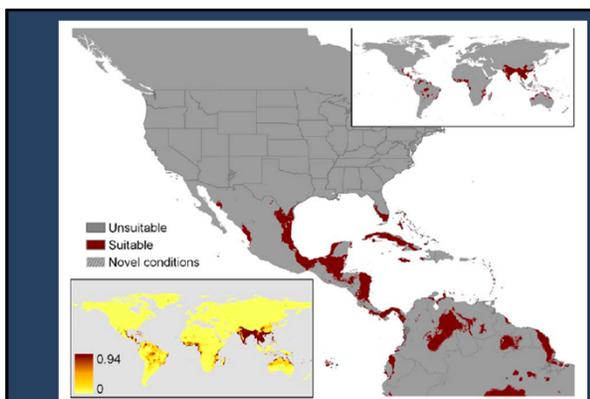
Joe Barsugli et al.

“...usability will depend also on additional factors inherent in decision making such as institutional constraints, decision and policy goals, and the level of skill needed to use the information.”

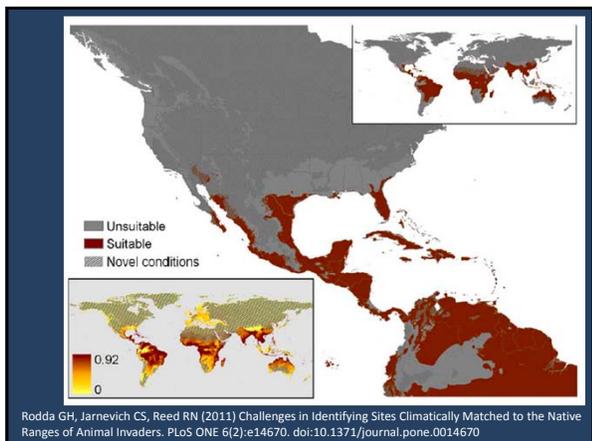
Connecting Climate to Plants and Animals through Habitat Suitability Modeling

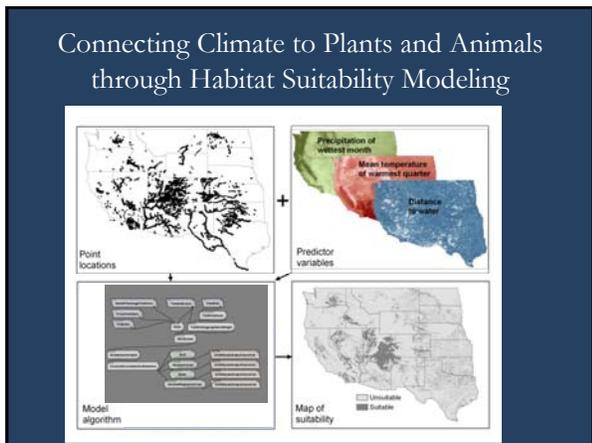


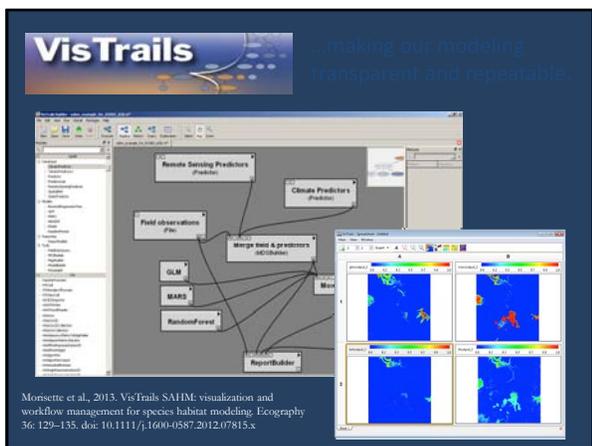


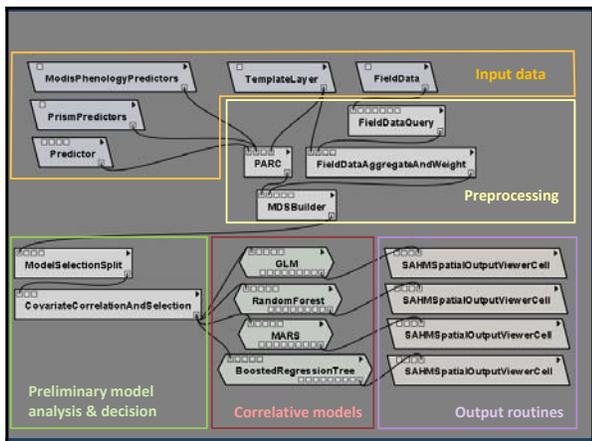


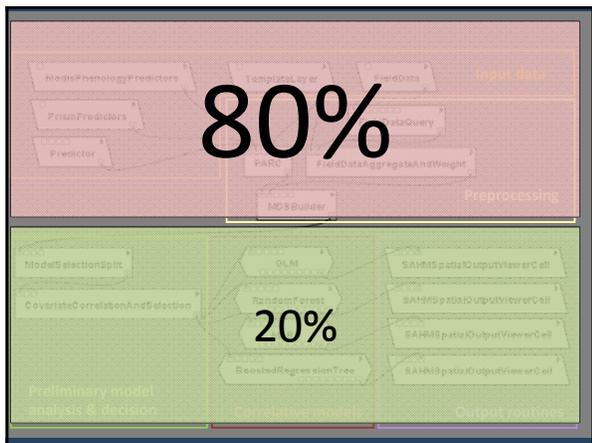
Rodda GH, Jarnevich CS, Reed RN (2011) Challenges in Identifying Sites Climatically Matched to the Native Ranges of Animal Invaders. PLoS ONE 6(2):e14670. doi:10.1371/journal.pone.0014670

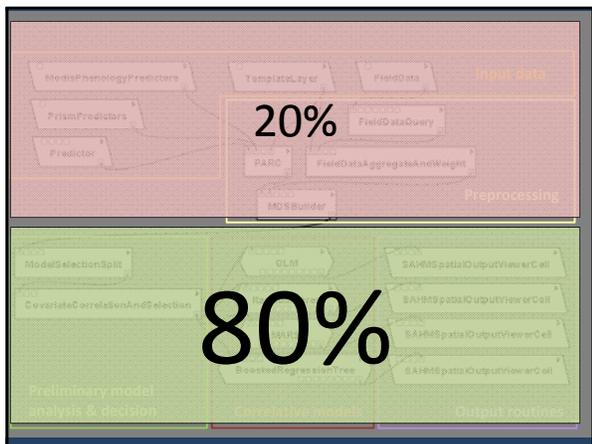




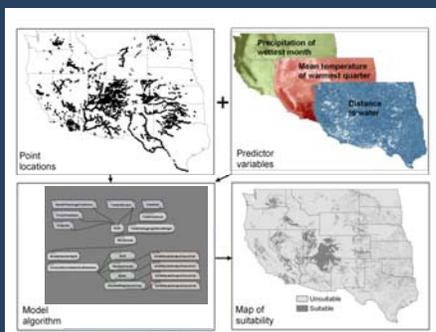






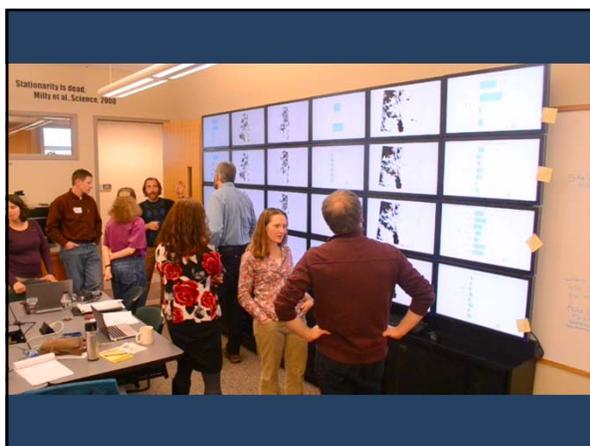


Connecting Climate to Plants and Animals through Habitat Suitability Modeling



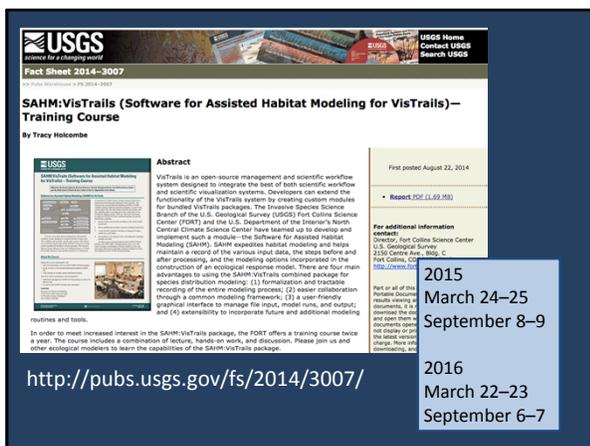
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Ecological Response Modeling: Part II Applications implies Collaboration

Some training and technical references to consider...



USGS
Fact Sheet 2014–3007

SAHM:VisTrails (Software for Assisted Habitat Modeling for VisTrails)– Training Course
By Tracy Holcombe

Abstract
VisTrails is an open-source management and scientific workflow system designed to integrate the best of both scientific workflow and scientific visualization systems. Developers can extend the functionality of the VisTrails system by creating custom modules for tailored VisTrails packages. The Invasive Species Biology Air funded VisTrails packages, The Invasive Species Biology Center (ISBC) and the U.S. Department of the Interior's North Central Climate Science Center have teamed up to develop and implement such a module: the Software for Assisted Habitat Modeling (SAHM). SAHM expedites habitat modeling and helps maintain a record of the various input data, the steps before and after processing, and the modeling options incorporated in the construction of an ecological response model. There are four main advantages to using the SAHM-VisTrails combined package for species distribution modeling: (1) formalization and traceable recording of the entire modeling process; (2) easier collaboration through a common modeling framework; (3) a user-friendly graphical interface to manage file input, model runs, and output; and (4) extensibility to incorporate future and additional modeling routines and tools.

In order to meet increased interest in the SAHM-VisTrails package, the FORB offers a training course twice a year. The course includes a combination of lecture, hands-on work, and discussion. Please join us and other ecological modelers to learn the capabilities of the SAHM-VisTrails package.

<http://pubs.usgs.gov/fs/2014/3007/>

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For additional information contact:
Director, Fort Collins Science Center
U.S. Geological Survey
1165 Collins Ave., Suite C
Fort Collins, CO 80520
<http://www.usgs.gov>

2015
March 24–25
September 8–9

2016
March 22–23
September 6–7

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