

The Society for Conservation Biology: why might this society be helpful in the fight to conserve Thailand's biodiversity?

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Outline

- 1) Global biodiversity research trends and Thailand's capacity limitations in biodiversity research & some 'rough' example data
- 2) A bit about the Society for Conservation Biology (SCB)
- 3) Some future trainings with the help of SCB

A big questions...!

- What are Thailand's current limitations regarding
 - (a) biodiversity research & (b) the training of biodiversity researchers?
 - (c) How do we reduce these limitations??

Global biodiversity research trends & Thailand's capacity limitations in biodiversity research

- 1) Thailand probably has a relatively small community of researchers working on biodiversity management and conservation

Researchers in all R&D fields (UNESCO database 2014):

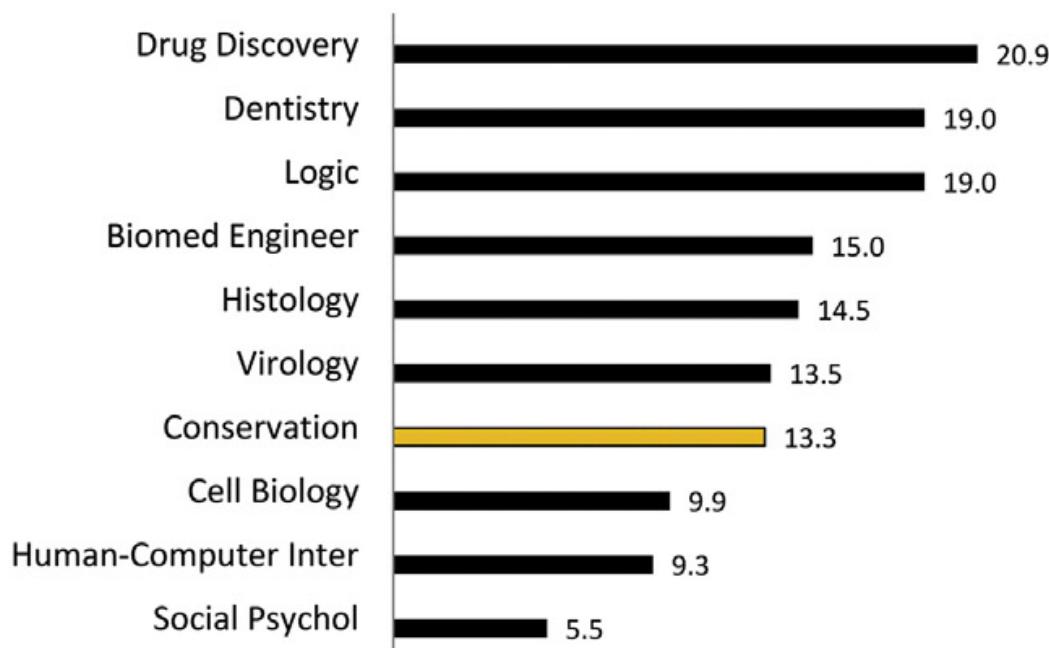
Thailand 974 researchers per million people

UK 4252 researchers per million people

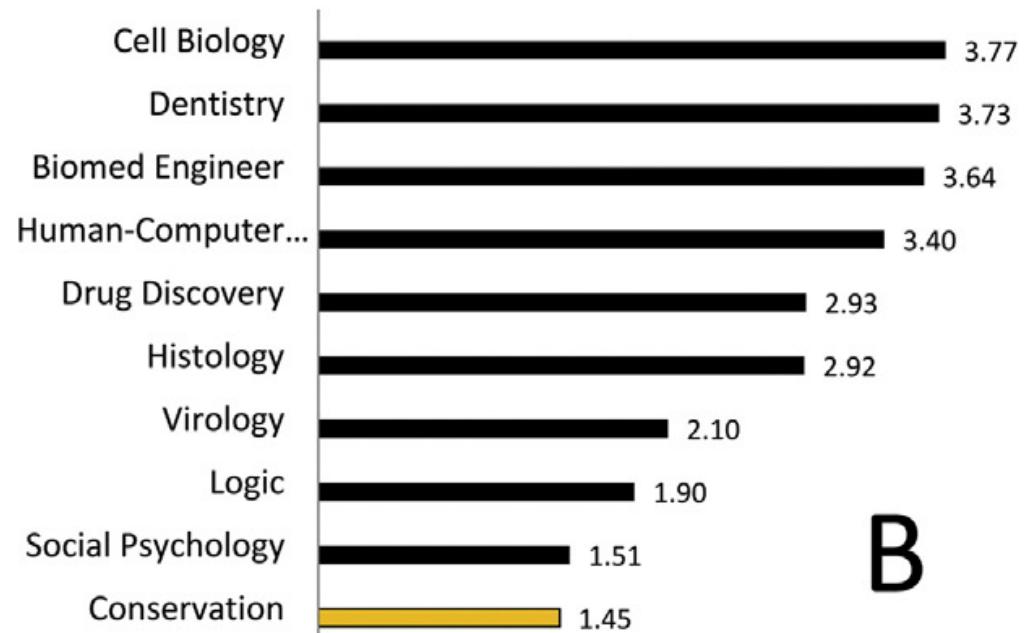
But we still don't know specifically how many researchers focusing on biodiversity in Thailand...

Research output from Thailand probably similar to other middle-income countries: biodiversity conservation is not a high priority

**% Publications contributed by NHI countries
2013**

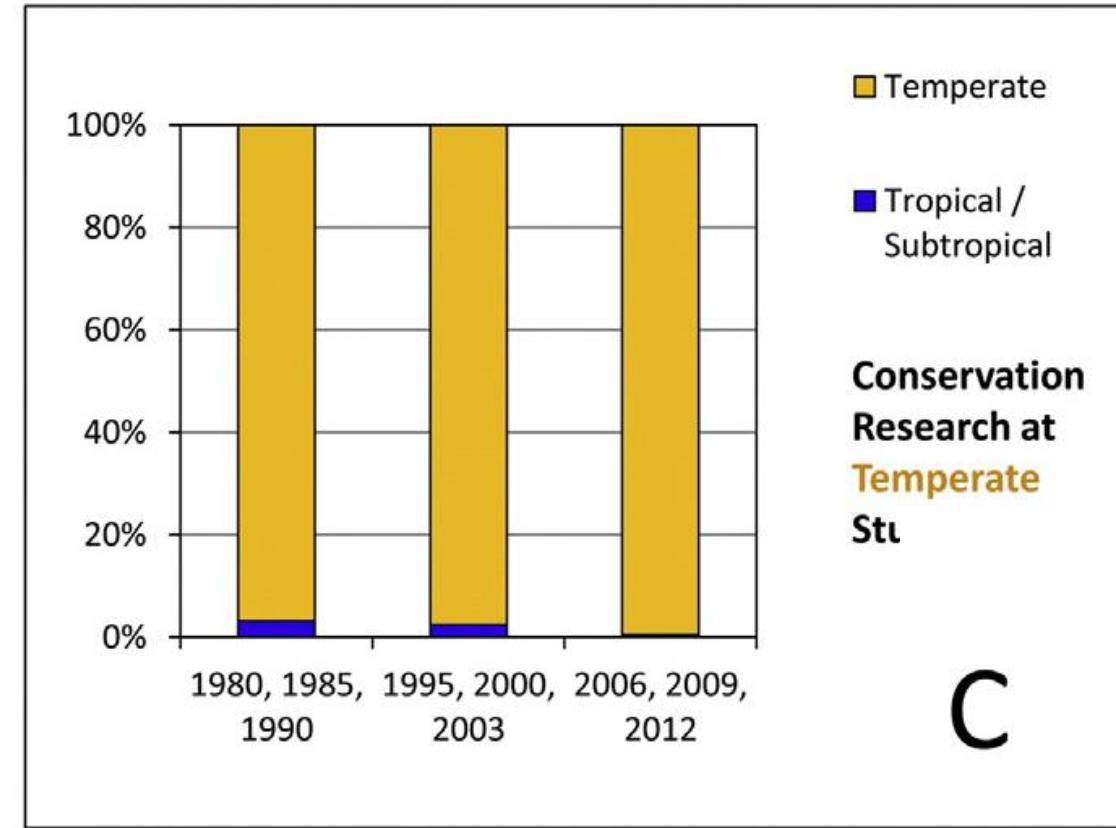
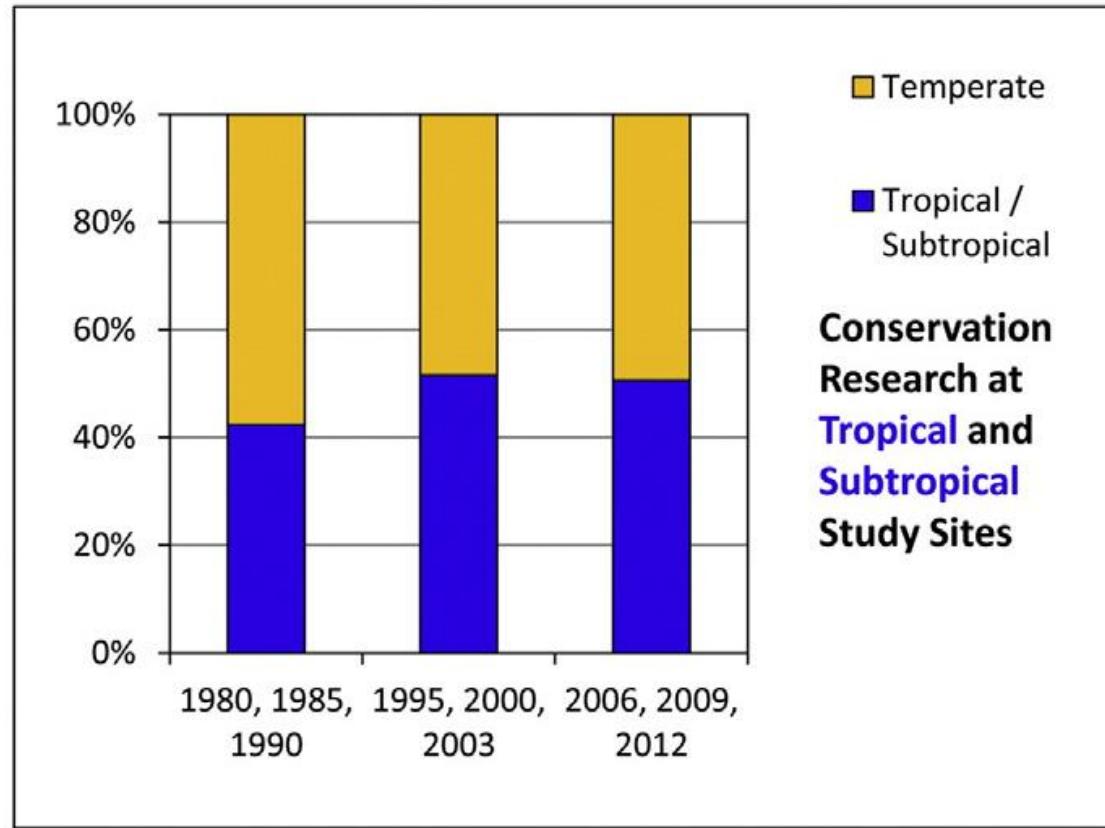


**Change in % publications contributed by NHI
countries, 1996-2013**

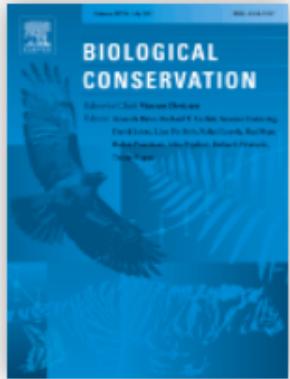


B

A large proportion of the research conducted in the tropics is lead by researchers from the temperate zone



- Some rough data from Thailand!!

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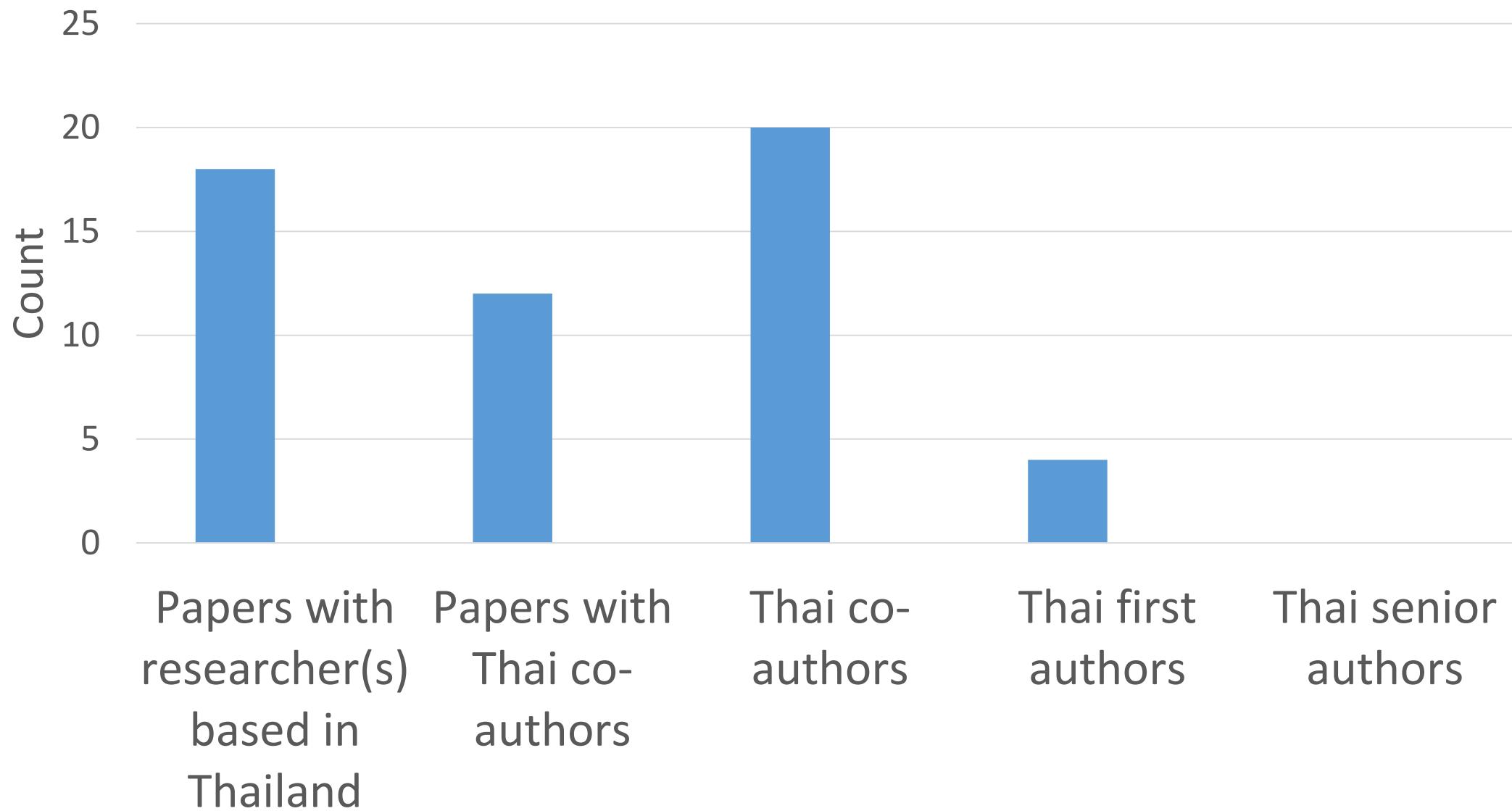
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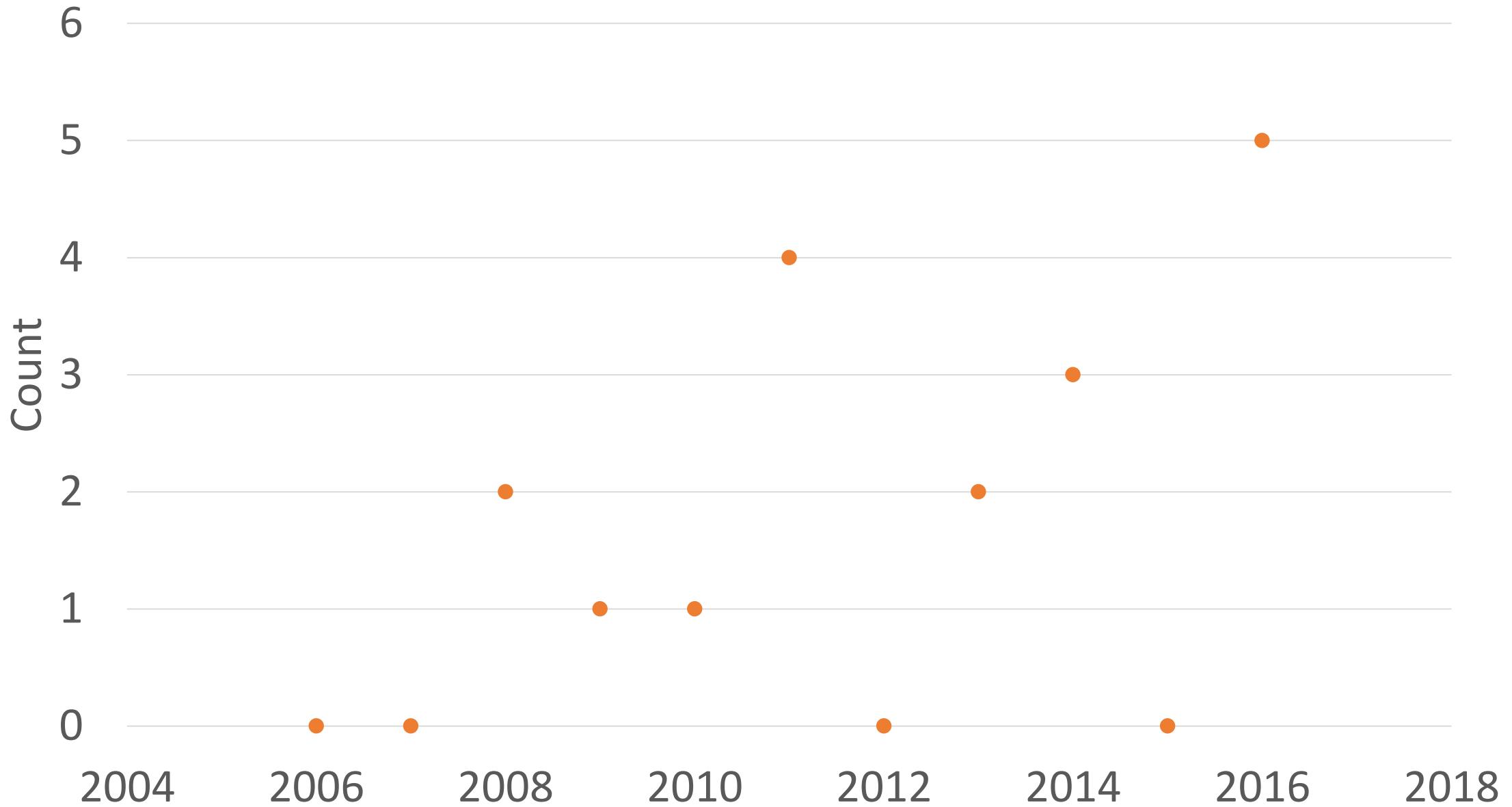
Environmental DNA – An emerging tool in conservation for monitoring past and present biodiversity Philip Francis Thomsen | Eske Willerslev

Recent increases in human pressure and forest loss threaten many Natural

Biological Conservation 2006-2016



Biological Conservation 2006-2016





ELSEVIER

Biological Conservation

Volume 144, Issue 10, October 2011, Pages 2534-2540



Evaluating the effectiveness of Protected Areas for conserving tropical forest butterflies of Thailand

Sravut Klovuttimontara^{a, c}, Colin J. McClean^b, Jane K. Hill^a

Show more

<https://doi.org/10.1016/j.biocon.2011.07.012>

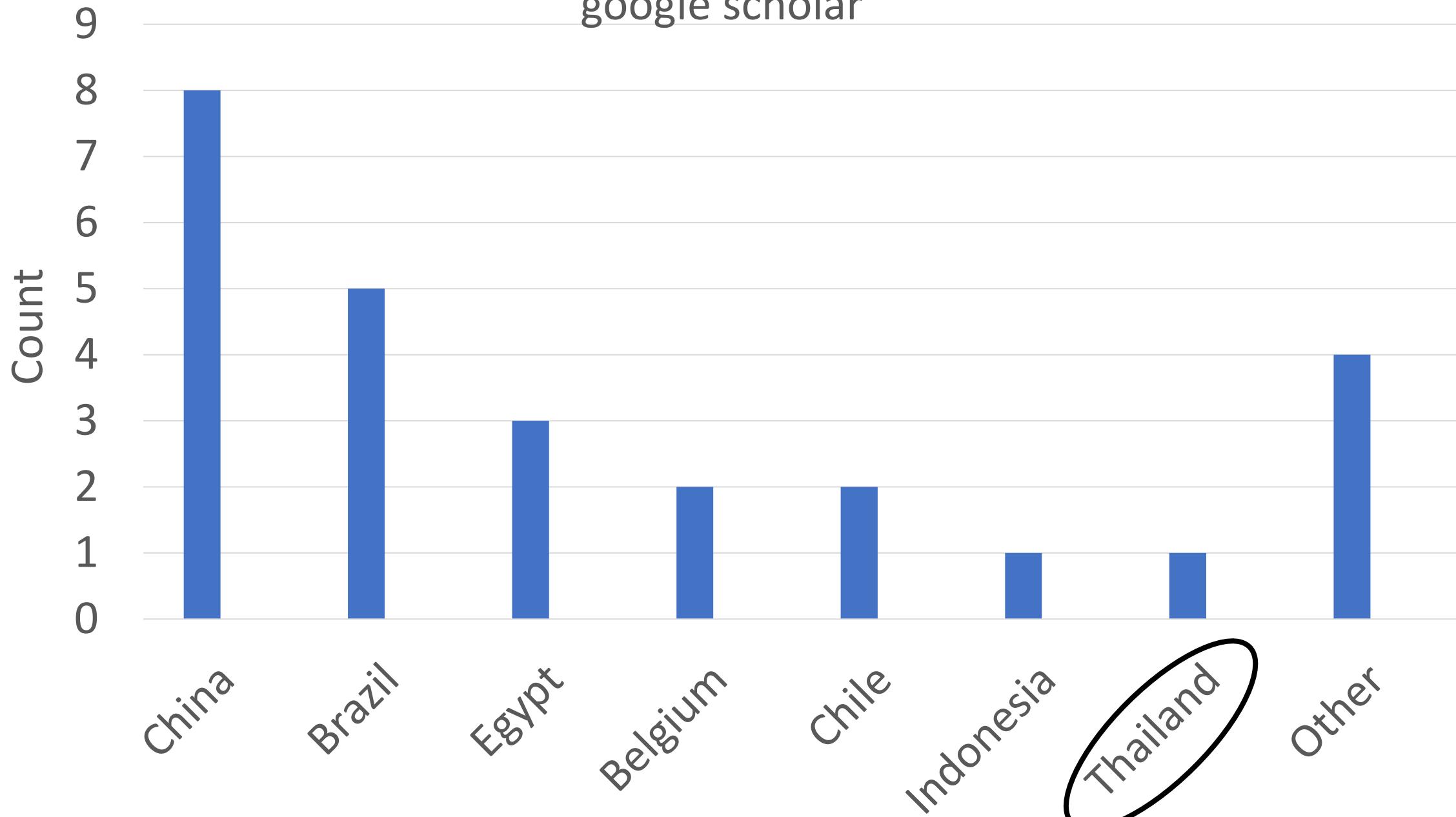
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Abstract

In many cases, the designation of Protected Areas (PAs) is not based on biological information, particularly in tropical regions

“The species richness of PAs was projected to decline by ~30% in future, but the relative conservation rankings of individual PAs were projected to change very little. The preponderance of PAs in montane regions makes them well-placed to support forest species shifting from areas at lower elevation that become climatically unsuitable in future. By contrast, the conservation value of low-elevation PAs may decline in future if climate conditions become unsuitable for species.”

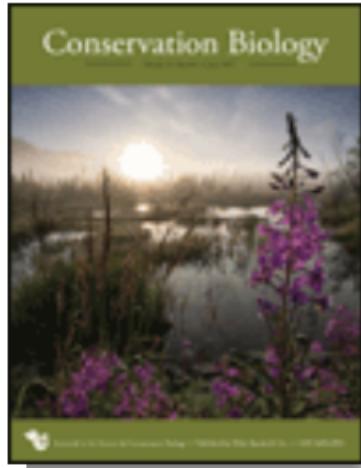
26 Citations of Klorvuttimontara et al. 2011 by country from google scholar



Conservation Biology

Conservation Biology

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Impact Factor: 4.842

ISI Journal Citation Reports © Ranking: 2016: 5/53 (Biodiversity Conservation);
19/153 (Ecology); 23/229 (Environmental Sciences)

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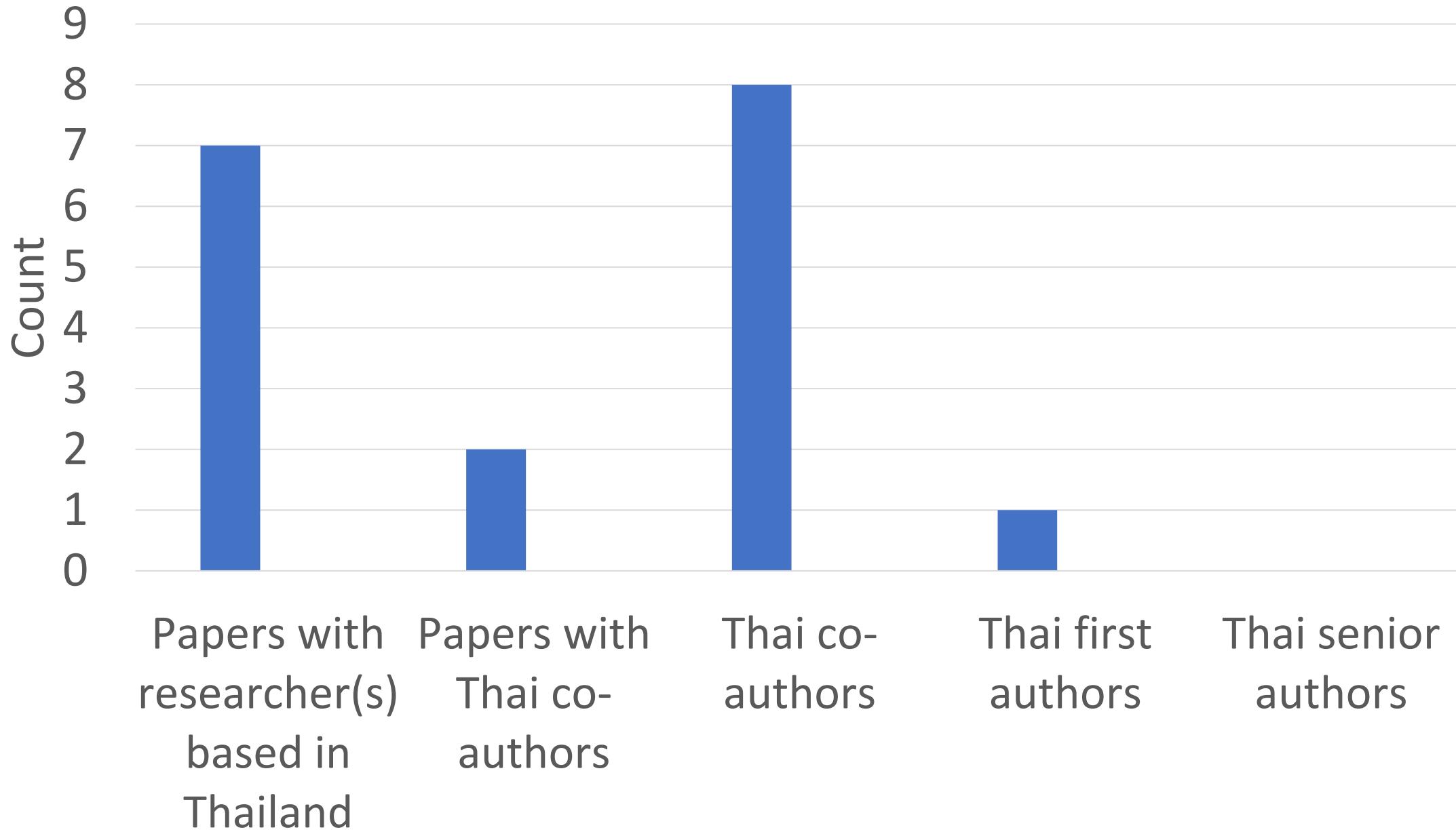
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Society for Conservation Biology



Conservation Biology 2006-2016



Other examples of recent research

Duangchantrasiri, S., Umponjan, M., Simcharoen, S., Pattanavibool, A., Chaiwattana, S., Maneerat, S., ... & Karanth, K. U. (2016). Dynamics of a low-density tiger population in Southeast Asia in the context of improved law enforcement. *Conservation Biology*.

Brodie, J. F., Paxton, M., Nagulendran, K., Balamurugan, G., Clements, G. R., Reynolds, G., ... & Hon, J. (2016). Connecting science, policy, and implementation for landscape-scale habitat connectivity. *Conservation Biology*.

Hajjar, R., Oldekop, J. A., Cronkleton, P., Etue, E., Newton, P., Russel, A. J., ... & Agrawal, A. (2016). The data not collected on community forestry. *Conservation Biology*, 30(6), 1357-1362.

Tantipisanuh, N., Savini, T., Cutter, P., & Gale, G. A. (2016). Biodiversity gap analysis of the protected area system of the Indo-Burma Hotspot and priorities for increasing biodiversity representation. *Biological Conservation*, 195, 203-213.

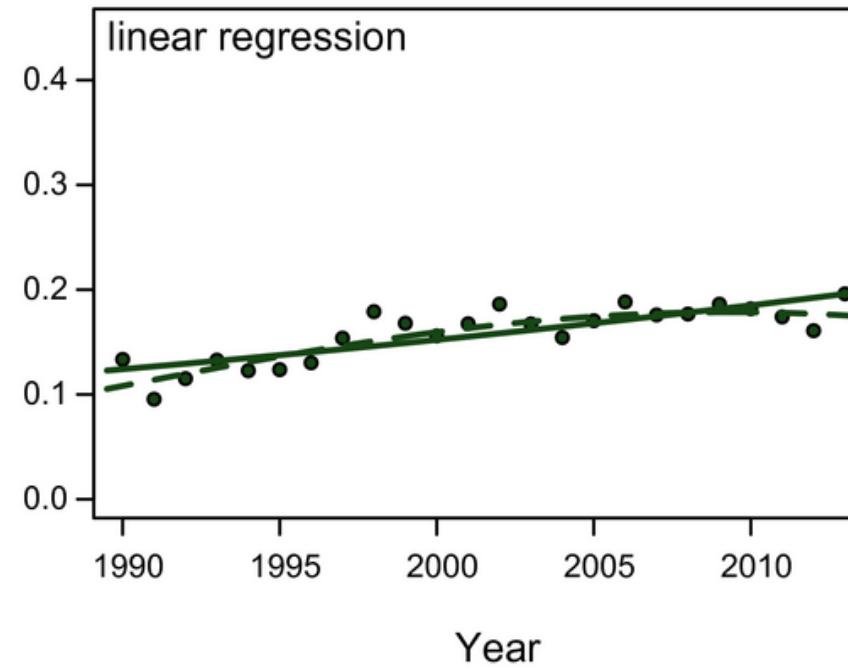
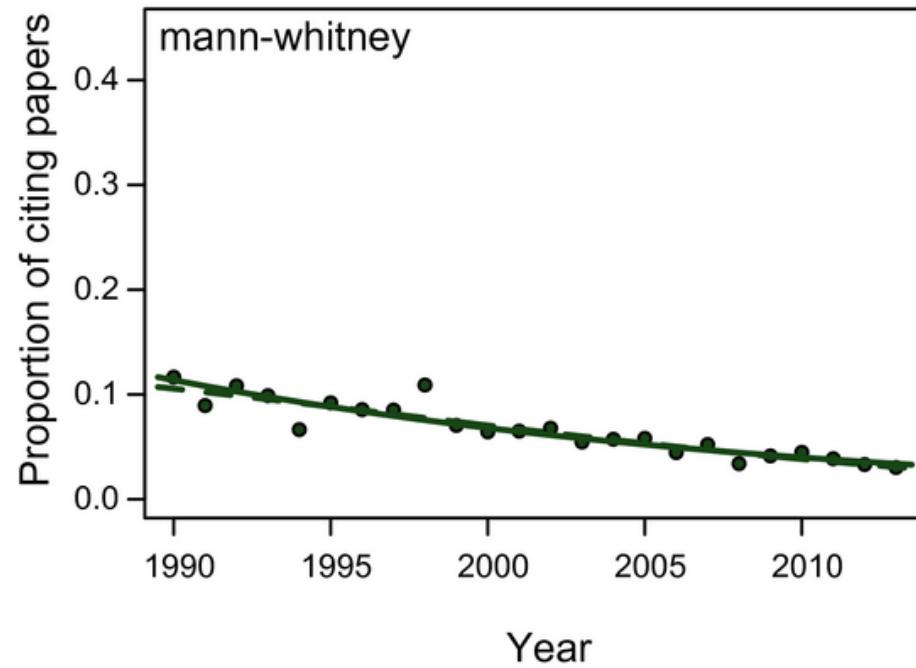
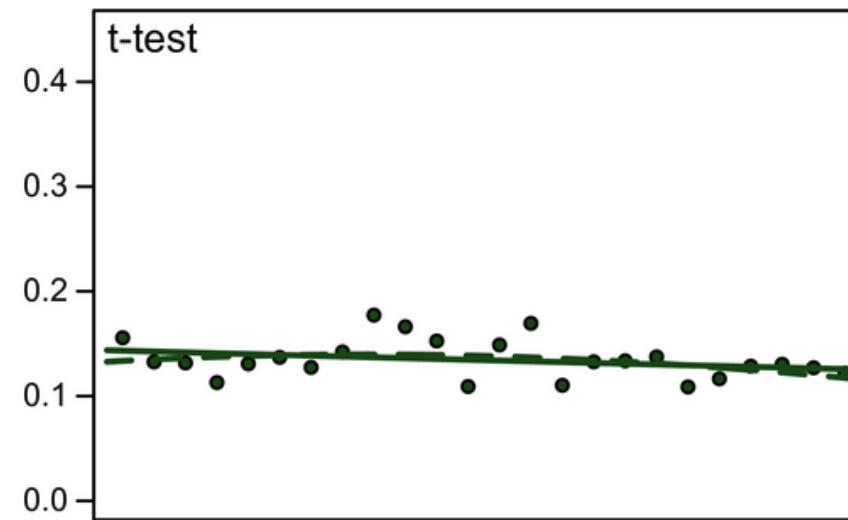
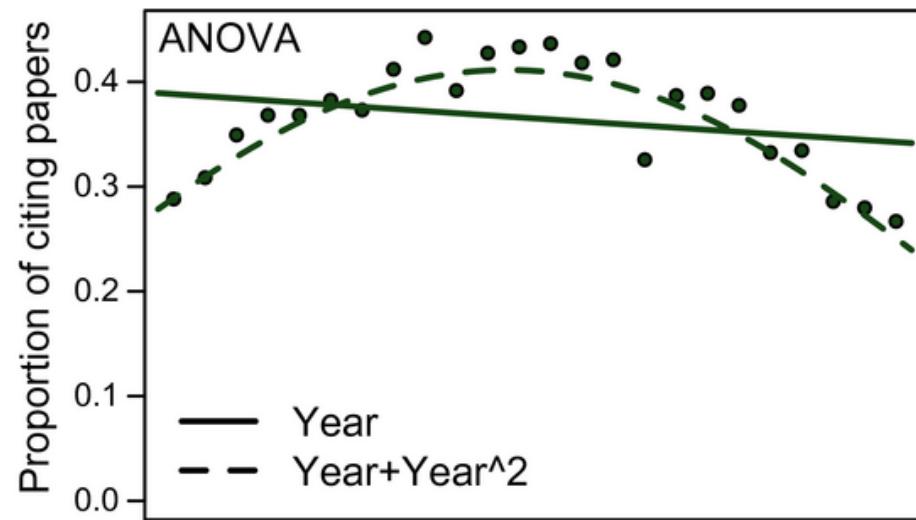
Sripanomyom, S., Round, P. D., Savini, T., Trisurat, Y., & Gale, G. A. (2011). Traditional salt-pans hold major concentrations of overwintering shorebirds in Southeast Asia. *Biological Conservation*, 144(1), 526-537.

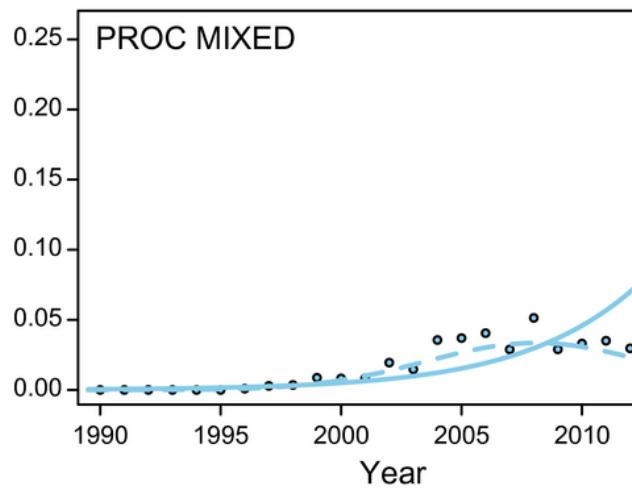
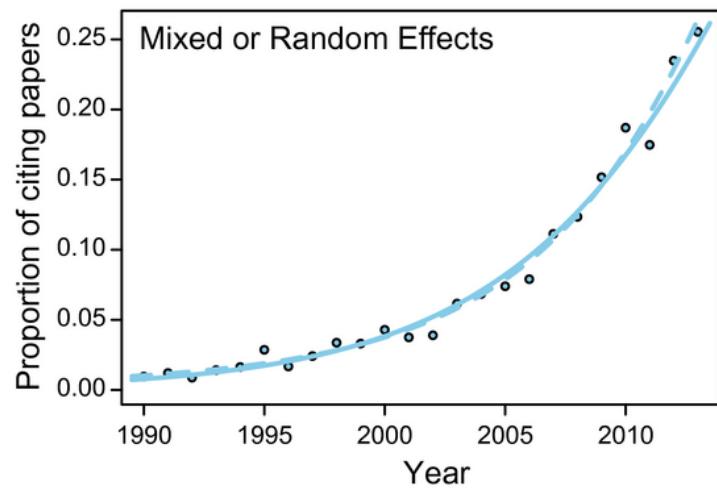
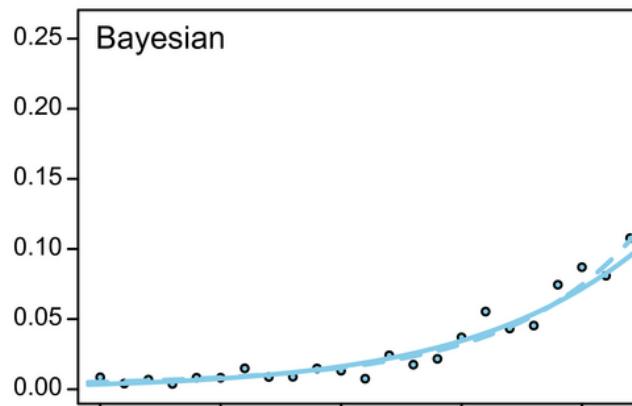
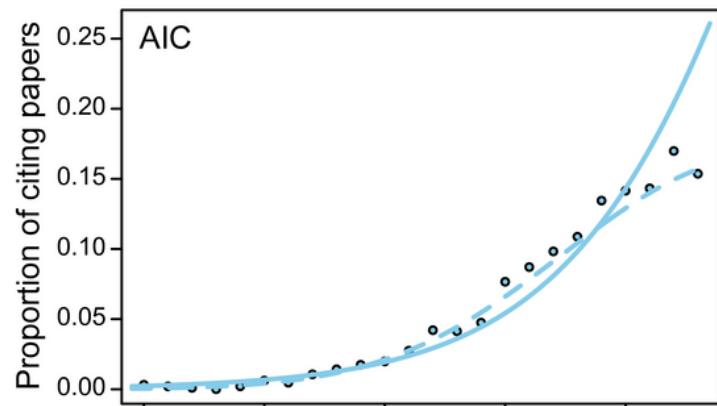
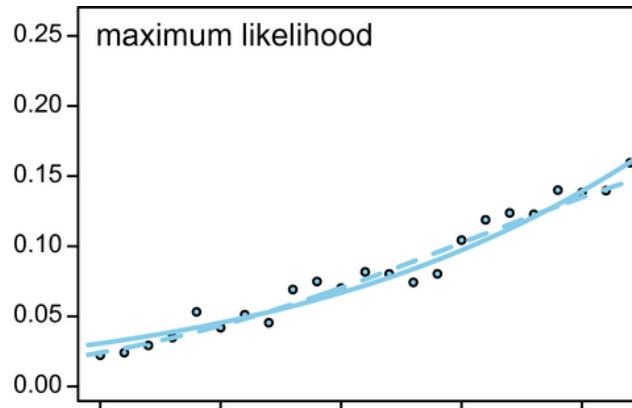
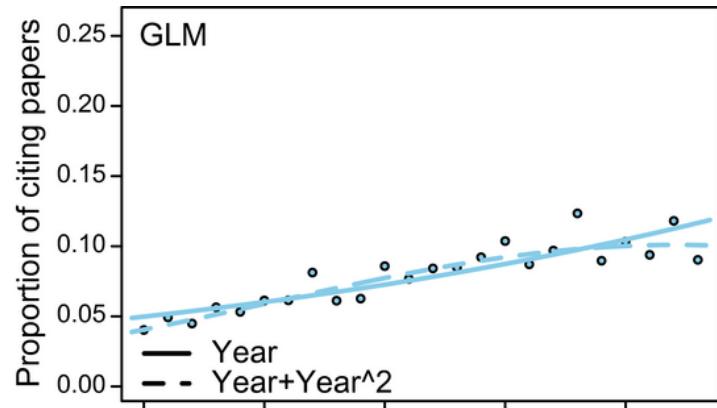
Potential benefits with working with the SCB

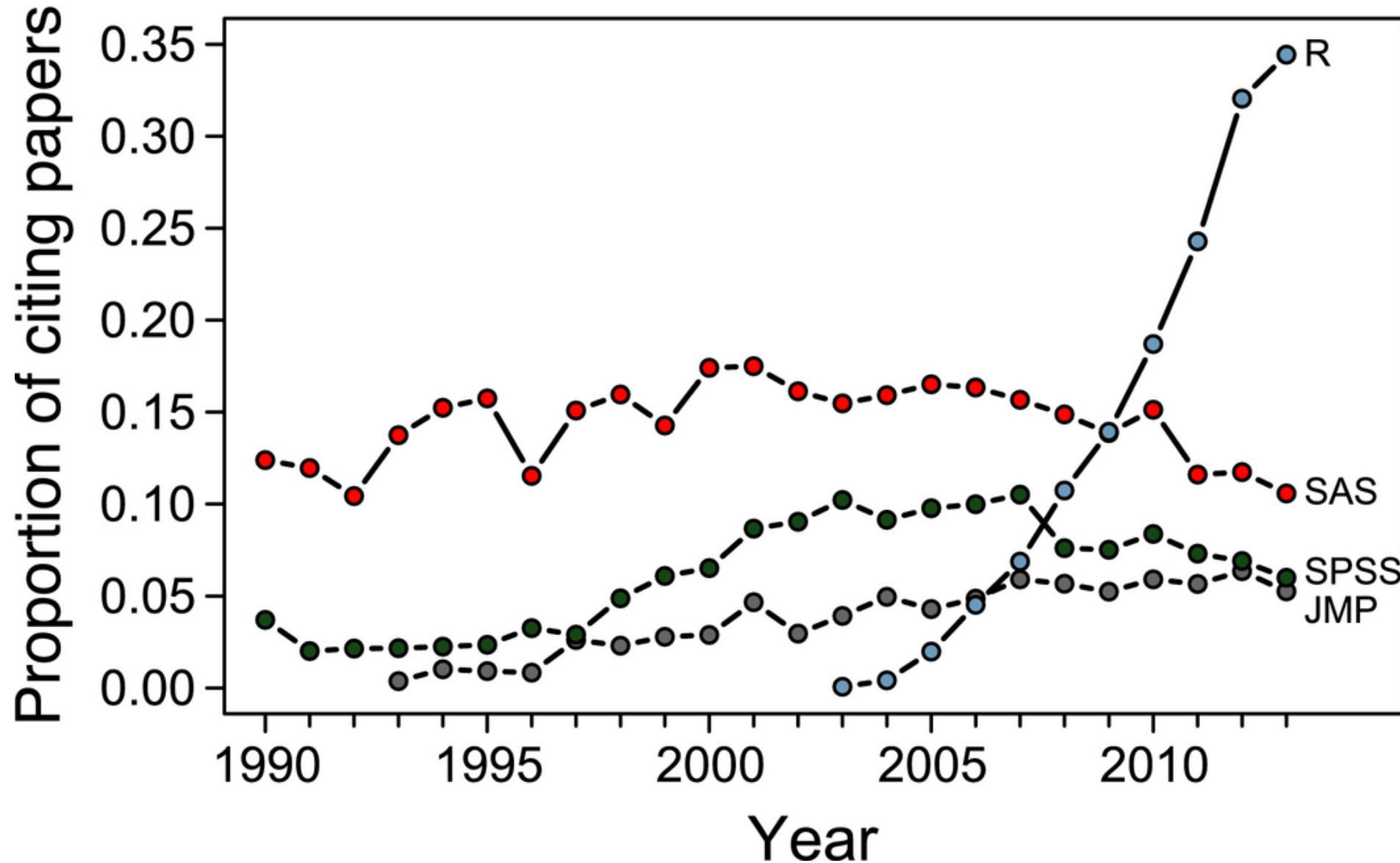
- Support various forms of training...

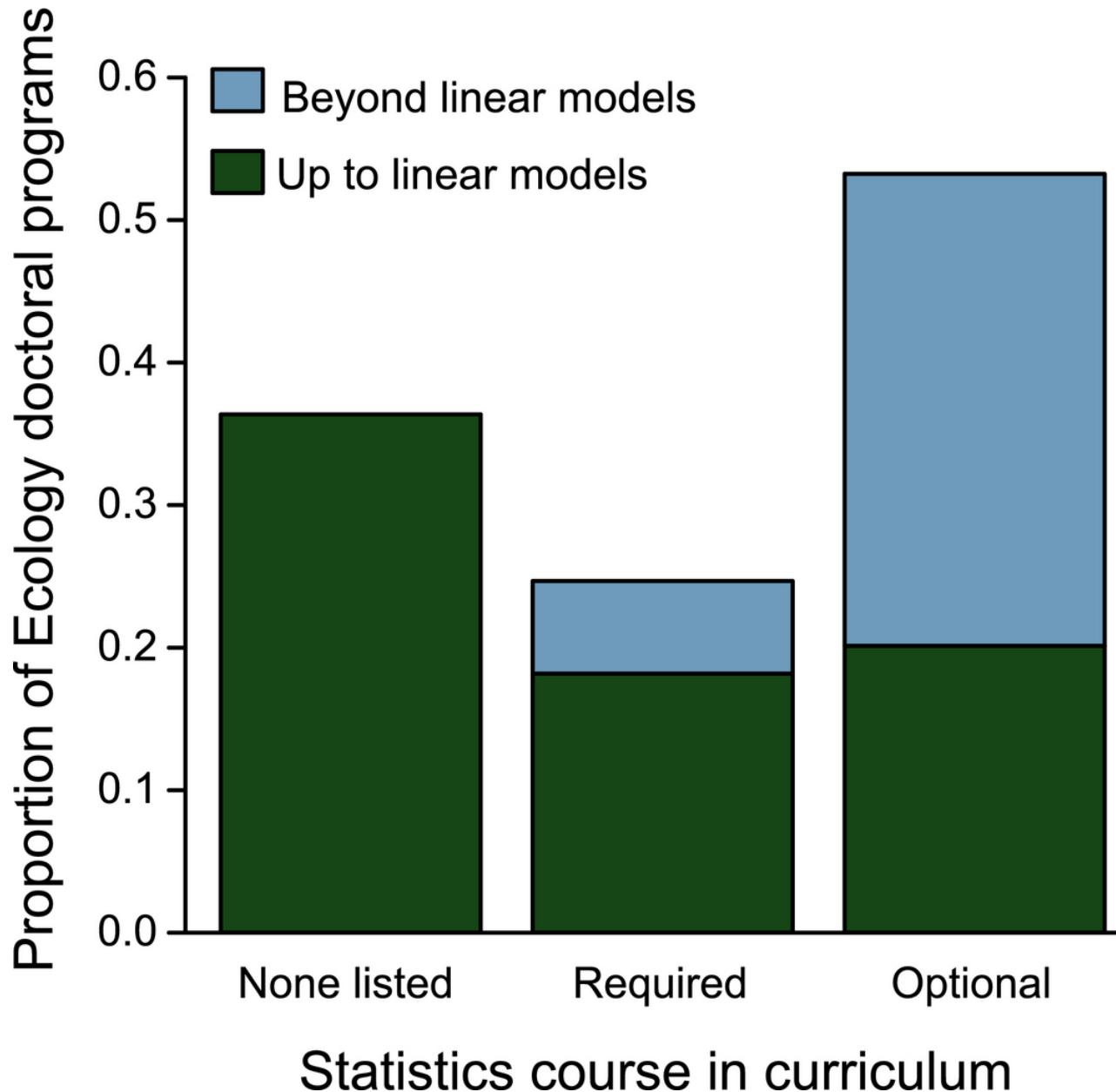
- The need for new training on quantitative techniques...

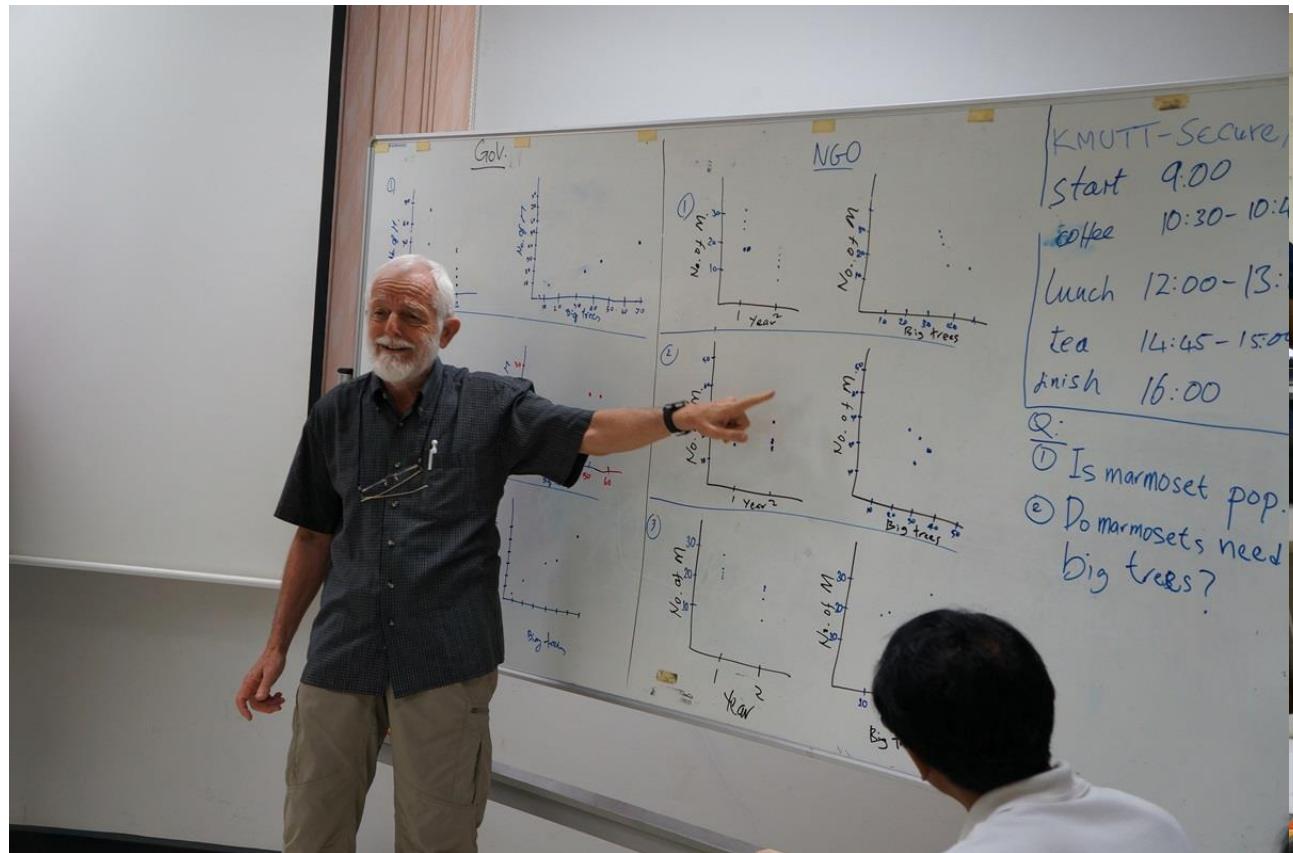
Touchon J. C., and M. W. McCoy. 2016. The mismatch between current statistical practice and doctoral training in ecology. Ecosphere 7(8):e01394. [10.1002/ecs2.1394](https://doi.org/10.1002/ecs2.1394)











Help fora:

- phidot.org
- HMecology
- secr
- unmarked

Workshops and training:

- SECR Melbourne, May
- Integrated Population Modelling:
 - Norway, Sept
 - Alaska, Oct
 - Maryland, Nov

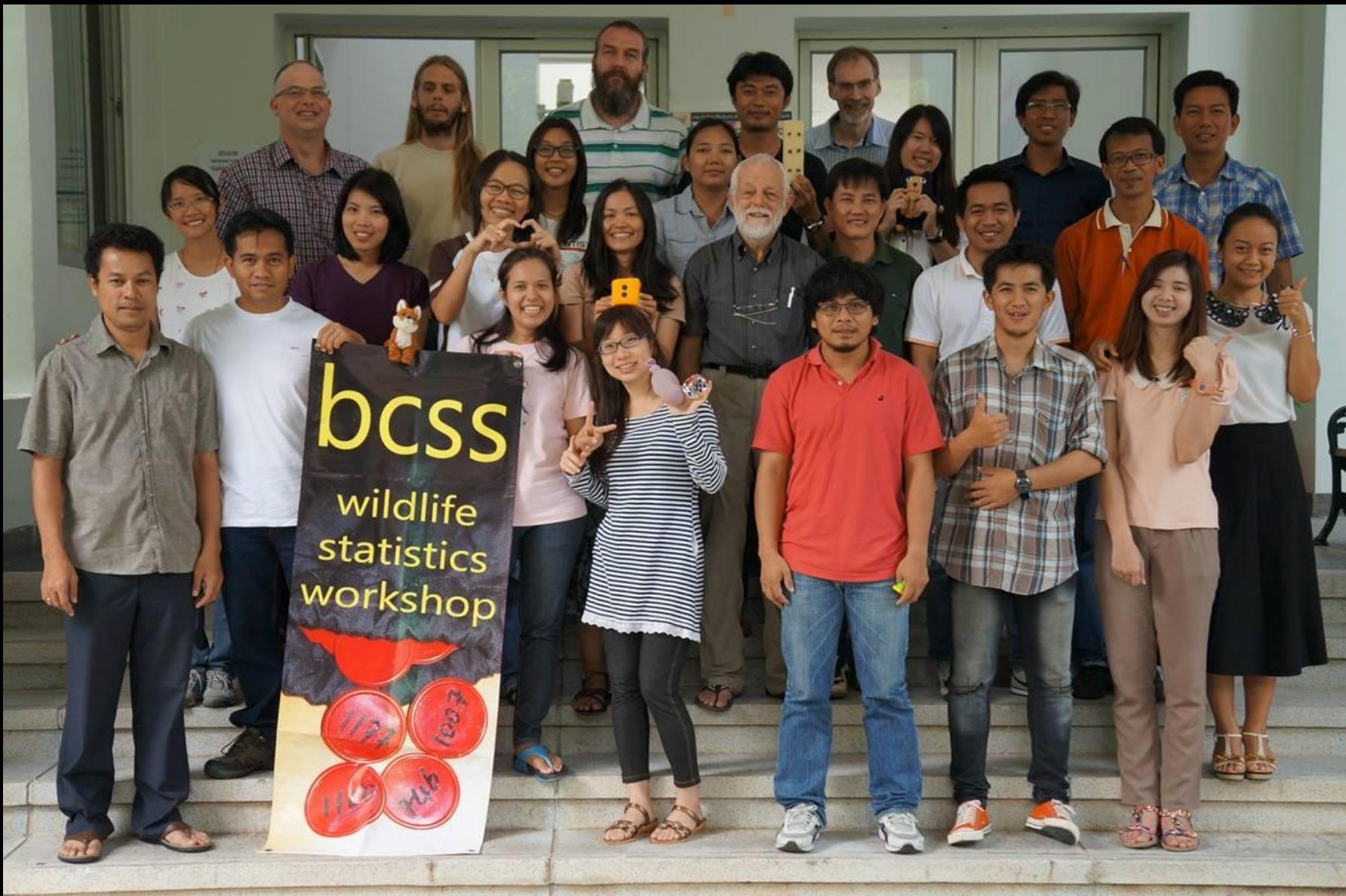
Conferences and meetings:

- ATBC Asia-Pacific XTBG (China), March
- Hornbills, Kuching, May
- SAGE, Bogor, August
- ISEC, UK, July 2018

"Boot Camp" in wildlife study design and data analysis

Xishuangbanna, China, 30 March - 10 April 2017





Specialist workshops

Bayesian analysis with JAGS and R

Bangkok, 3 – 14 July 2017

Bayesian analysis seems to be taking the world of ecological statistics by storm! Since 2009, more than 20 papers have appeared in the mainstream ecological literature (eg. *Ecology*, *Journal of Applied Ecology*, *Biological Conservation*) which use Bayesian analysis methods **and** provide the code used to run the analysis in R or WinBUGS.

This workshop aims to get participants to the point where they can read and understand Bayesian analyses in the ecological literature, run the example code provided, and adapt it to suit their own models. Details of workshop content are [here](#).

The next Bayesian analysis with JAGS workshop will be a 10-day event organised by the [Conservation Ecology Program](#) at King Mongkut's University of Technology Thonburi (KMUTT) from 3 to 14 July 2017. The content will be an extension of the usual 5-day workshop; details will be available in late January.

If you are interested in joining this workshop, please contact Dr Dusit Ngoprasert: ndusit_at_gmail_dot_com.

Introduction to GIS with QGIS and R

Geographic information system (GIS) tools are essential today for understanding what is happening around us. A commonly used application is QGIS, which is free, open-source, cross-platform software that is constantly updated for greater performance.

QGIS works on Macs and Linux, but the facilitators only have experience with Windows.

This workshop is intended for those who want to learn the basics of GIS but do not have access to proprietary software.

More details of the content are [here](#).

The next QGIS workshop in Malaysia will likely be late in 2017.



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Mission



SCB is dedicated to advancing the science and practice of conserving Earth's biological diversity

"SCB SHOULD SERVE AS THE WORLD'S LEADING REPRESENTATIVE FOR CONSERVATION BIOLOGY SCIENTISTS AND PRACTITIONERS AND USE THE POWER OF THE COLLECTIVE TO ADVANCE POLICY DECISIONS THAT RESULT IN INCREASED CONSERVATION."

Debi Luke
SCB Executive Director



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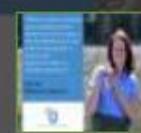
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Society for Conservation Biology



SCB announces Deborah Luke, Ph.D., as executive director

What is The Society for Conservation Biology (SCB) ?

- The Society for Conservation Biology (SCB) is an international professional organization which focuses on the study of factors that affect the maintenance, loss, and restoration of biological diversity.
- SCB's membership comprises a broad range of people interested in the conservation and study of biological diversity, including resource managers, educators, government and private conservation workers, and students.

- There are more than 5,000 members world-wide. The Society was founded in Ann Arbor, Michigan, USA in 1985.
- The mission of SCB is to advance the science and practice of conserving Earth's biological diversity.

The five main goals of the SCB are:

- (1) advocate support for, and facilitate the creation and dissemination of, conservation science,
- (2) identify and support the scientific research needed to understand and conserve biological diversity,
- (3) appraise scientific outputs and disseminate the highest quality science,
- (4) increase application of science to management and policy and
- (5) directly inform management and policy at local, national, regional, and global levels with the highest quality science.

The Thailand Chapter of SCB

- The Thai chapter of SCB was launched in February 2017 and held its first meeting in which >40 researchers and students attended.
- The hope is that through connections to the SCB parent organization that the Thai SCB chapter can facilitate networking and specialized training for students and researchers in Thailand and the region.

Regional meetings

- Katmandu 2005
- Bangalore 2012
- Melaka 2014
- Singapore 2016
- Kyrgyzstan? 2018

Next proposed activity...

- Workshop on social science techniques...likely invited speaker
- Dr. Meredith Gore, Michigan State University

The image shows a screenshot of the Michigan State University College of Social Science School of Criminal Justice website. At the top, there is a green header bar with the Michigan State University logo, a search bar, and social media links. Below the header, the text "MICHIGAN STATE UNIVERSITY | College of Social Science School of Criminal Justice" is displayed. A navigation menu includes links for Home, About Us, People, Undergraduate, Graduate On-Campus, Graduate Online, Research, Alumni, and Centers and Training. In the center of the page is a large circular watermark featuring the Michigan State Spartans logo and the text "SCHOOL OF CRIMINAL JUSTICE". To the right of the watermark is a portrait photo of Dr. Meredith Gore, a woman with curly hair, smiling. To the left of the photo is her name and title: "Meredith Gore, PhD Associate Professor". Below her name are her office location ("Baker Hall 655 Auditorium Road Room 448 East Lansing, MI 48824"), phone number ("517-353-9545"), email ("gorem@msu.edu"), personal website link ("Personal Website"), and curriculum vitae link ("Curriculum vitae"). At the bottom right, it says "PhD, Cornell University".

- Other trainings-
 - International publication & writing clinic

- **Question: what are the priorities for SCB Thailand chapter?**
- e-mail: SCBThailand2017@gmail.com

- Current officers of SCB Thailand

Naruemon Tantipisanuh

Dusit Ngoprasert

Wirong Chanthorn

George A. Gale

Tommaso Savini

Conclusions

- 1) Thailand has several researchers now regularly publishing useful research in the top journals in the field of biodiversity conservation
- 2) However, while Thailand is participating in top quality research, it has a lot more potential to be a regional and global leader in the field
- 3) Continued collaboration and training will be essential for producing useful research and innovative young conservation scientists



Thank you