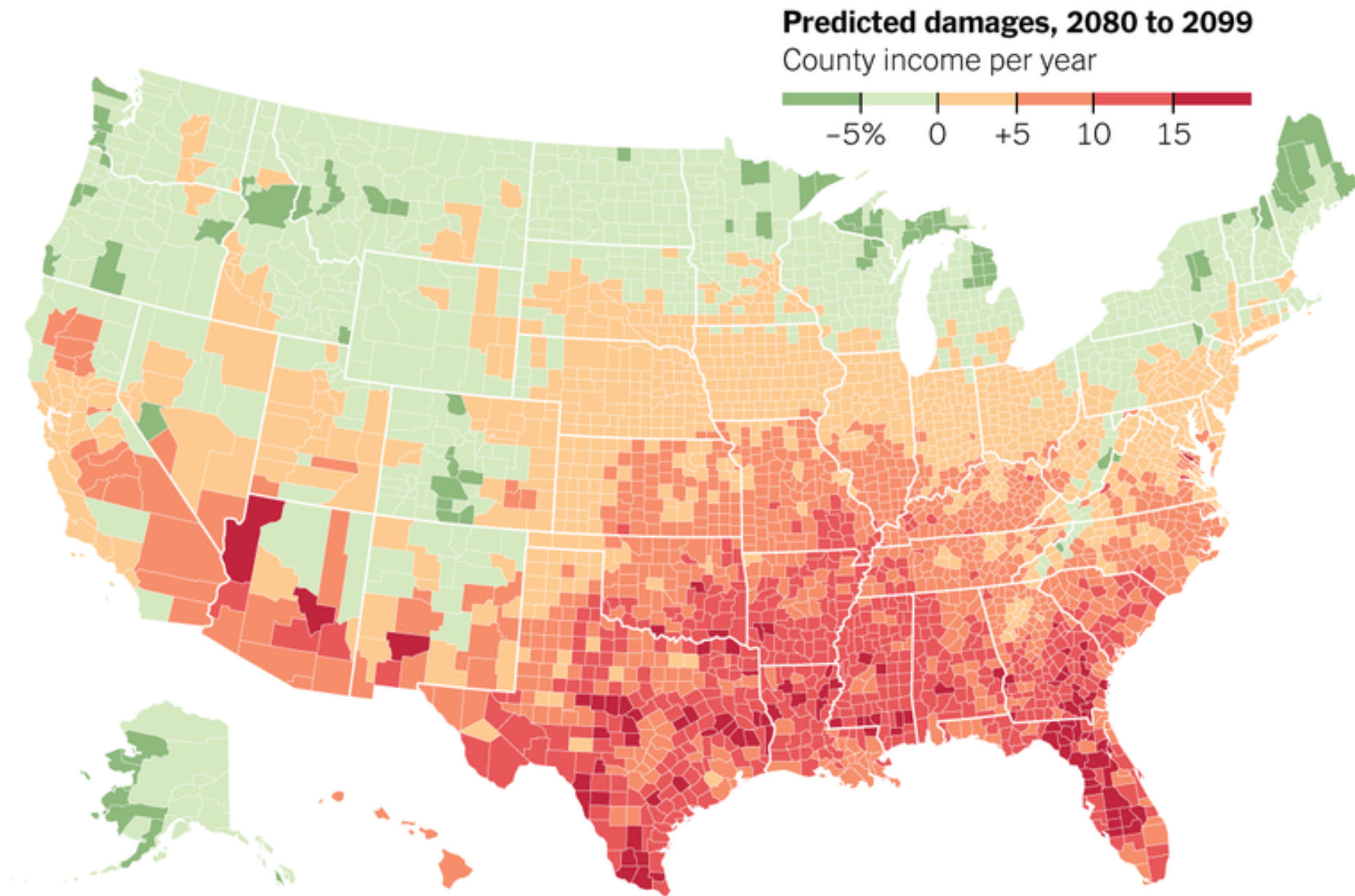


evidence mapping is an environmental management reproducible solution



@cjlortie

environmental management solution

NATURE | COMMENT



Sustainability: Map the evidence

Madeleine C. McKinnon, Samantha H. Cheng, Ruth Garside, Yuta J. Masuda & Daniel C. Miller

09 December 2015

Too many studies go unread. Collate them to enable synthesis and guide decision-making in sustainability, urge Madeleine C. McKinnon and colleagues.

ers

novelty

map what we know

included human well-being

conservation to people

explicitly addressed research gaps

challenge

**Mischief
Managed**



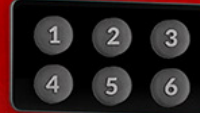
information overload

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publisher paywalls

downloading and processing reports or papers even as pdfs
is non-trivial

methods

> 1000 studies documenting links between conservation efforts and human well-being

unique classification of studies to include
studies with humans directly

considered the business-as-usual model
and hope-for-the-best in the studies

evidence

many non-comparative studies, i.e. without
controls but were included

A total of 25% of 1,014 studies measured the economic impacts of protected areas

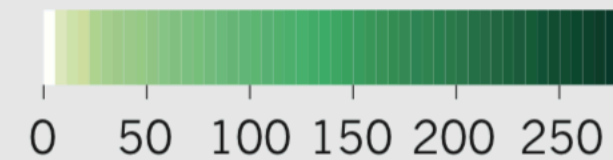
Only 2% of studies measured well-being
such as health of local communities

More than 1,000 studies were included in the evidence map on the basis of systematically designed selection criteria.

Conservation intervention

Area protection
Land or water management
Resource management
Species management
Education and awareness
Law and policy
Economic incentives

Number of studies

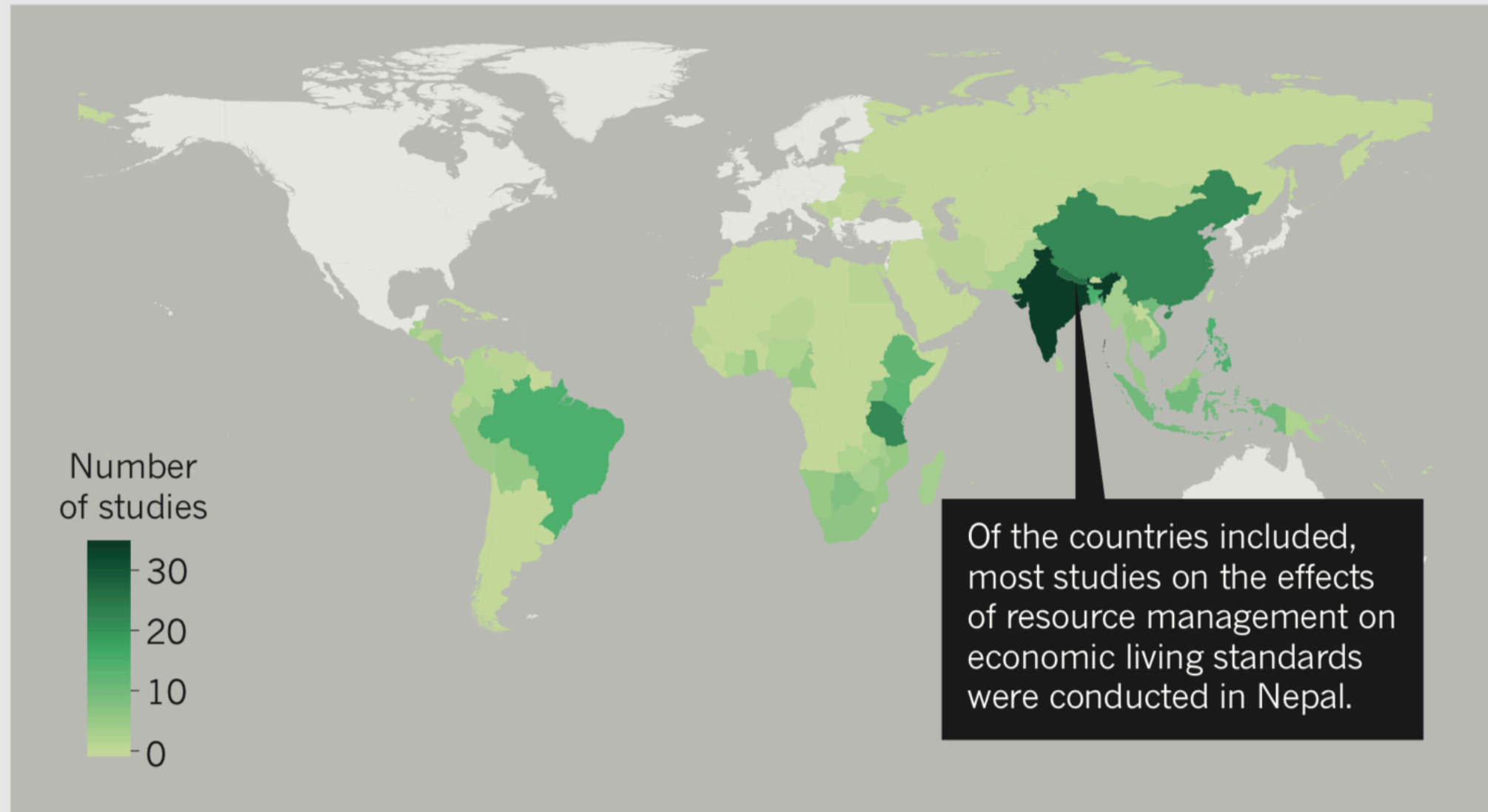


Users click on a cell to find out more about the studies that investigate links between a particular conservation policy and a measure of human well-being.

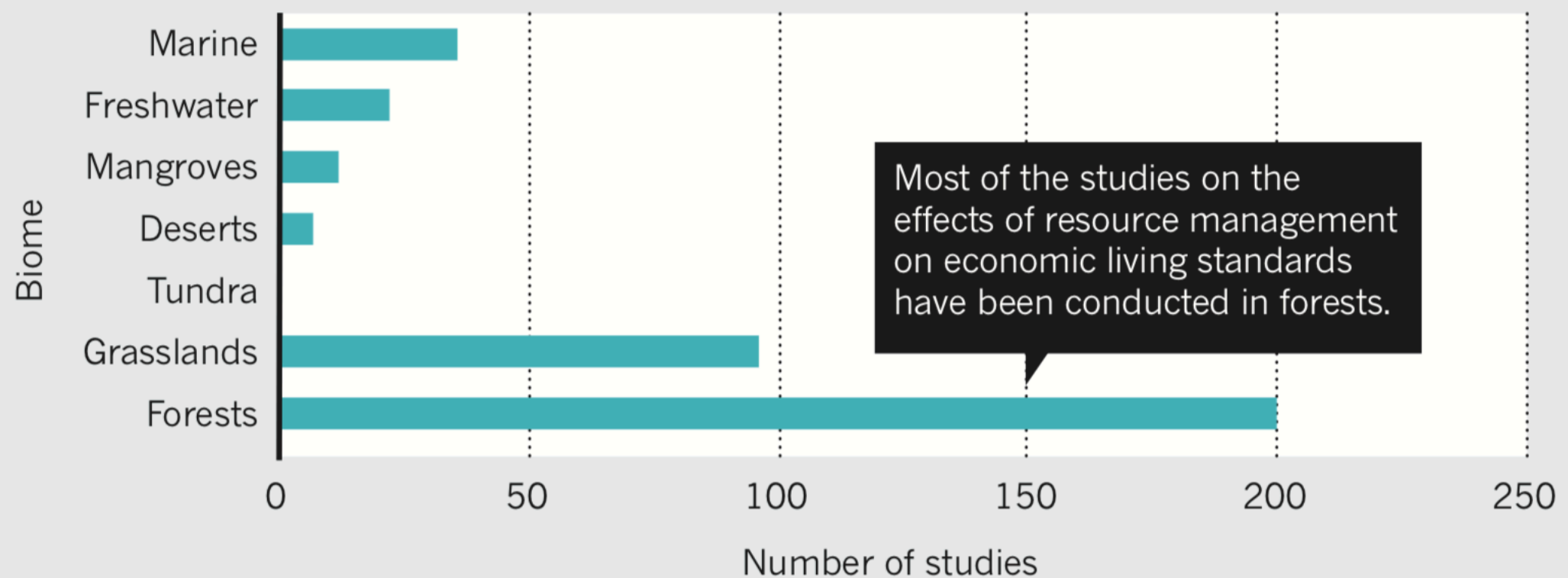
158	151	185	52	20	99	119	Material living standards
247	213	278	91	34	149	248	Economic living standards
21	17	10	11	5	6	21	Health
49	43	68	23	41	30	56	Education
133	162	202	58	31	134	109	Governance and empowerment
102	105	140	45	18	75	89	Social relations
45	29	33	21	5	19	16	Security and safety
36	37	23	19	15	24	47	Culture or spirituality
22	16	24	6	6	12	17	Subjective well-being
1	3	3	1	1	2	2	Freedom of choice or action

Human well-being

A search of these 278 studies by country indicates where in the world they have been carried out.



Or these 278 studies can be searched by the biome in which they were conducted.



many ways to map and visualize studies

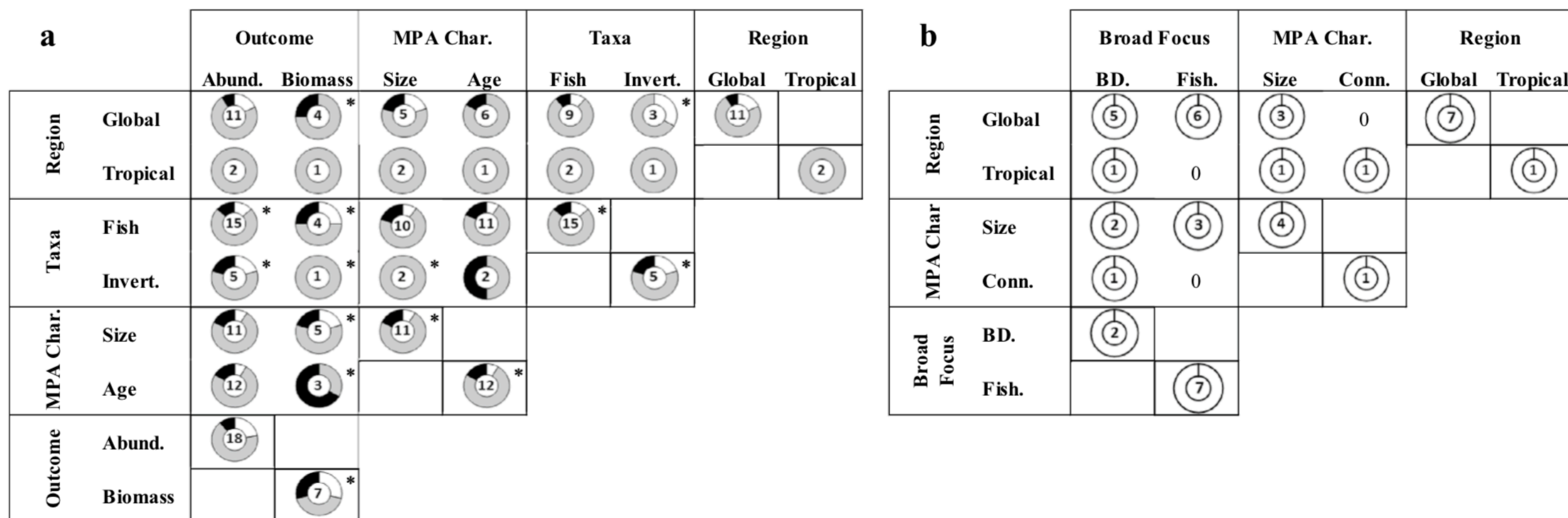
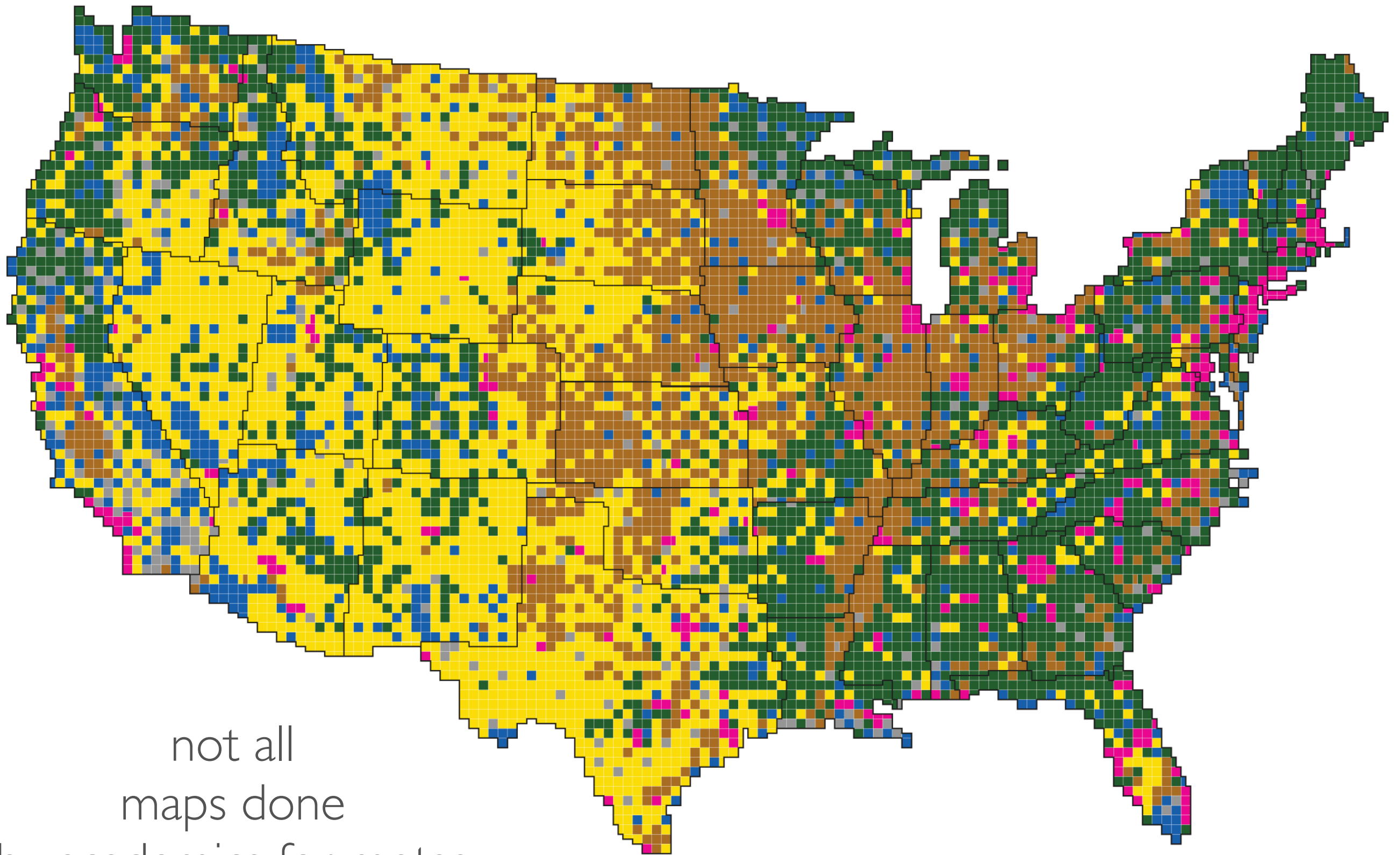


Fig. 3 Example **a** meta-analytical and **b** narrative evidence review map illustrating the marine protected area review landscape. The matrix should be read using combinations from the *top and left* headings to form the particular question of interest. *Each individual doughnut chart* describes the number of reviews addressing a question, and the proportion of reviews that are high (26.5+; *black*), moderate (13.5–26; *grey*) and low (≤ 13 ; *white*) scoring. *Star symbols* represent where one or more reviews have been identified that partially address the particular question. Full details identifying reviews that address a particular question are reported in the supporting tables. Abbreviations in headings refer to: Taxa—*Invert* invertebrates *MPA Char* MPA characteristics, outcome measures—*Abund* abundance, broad focus—*BD* biodiversity, *Fish* fisheries (Example adapted from Woodcock et al. [12])

■ Pasture/range ■ Forest ■ Cropland ■ Special Use ■ Miscellaneous ■ Urban
■ = 1 million acres



not all
maps done
by academics for metas

bio4enviro connection

studies all over the world > many lost/inaccessible > scrapes > maps

tools

bibliometrics

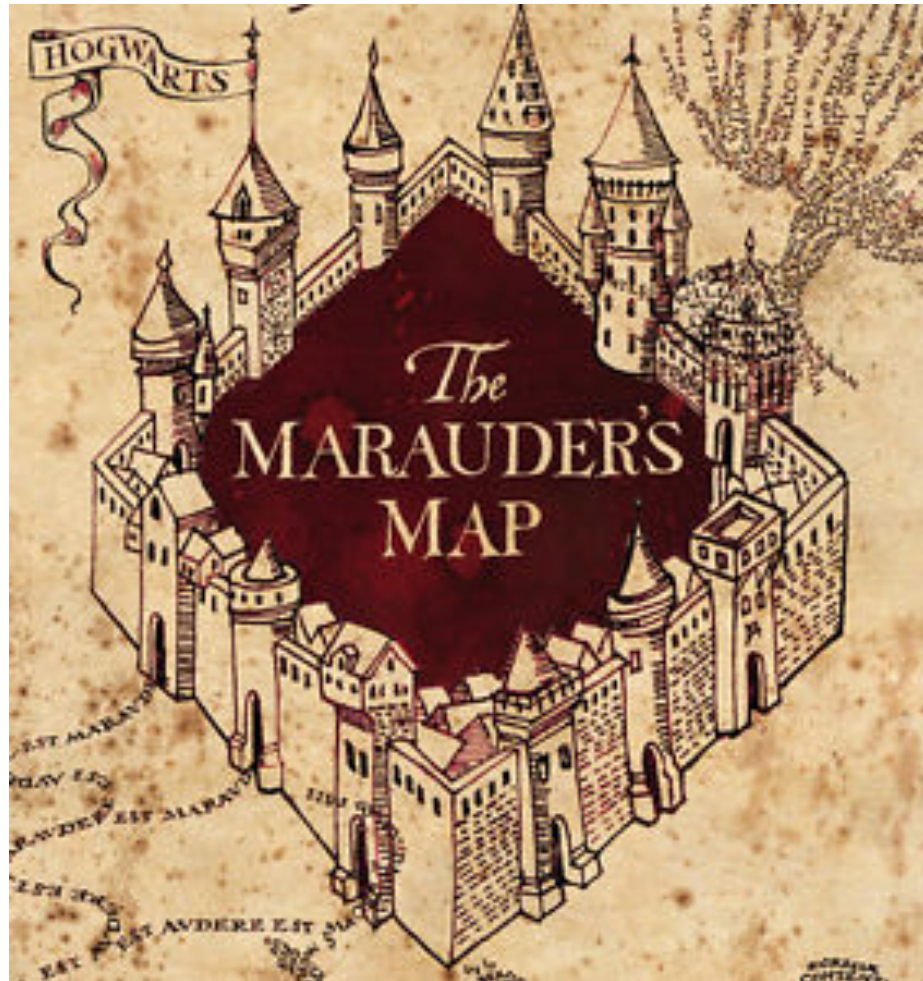
open science tools

team science

mapping

critical idea linkage of conservation to people

implications



a magic interactive map
that shows
environmental change
is not so farfetched