

Biodiversity
threats and
patterns in the
Asian tropics

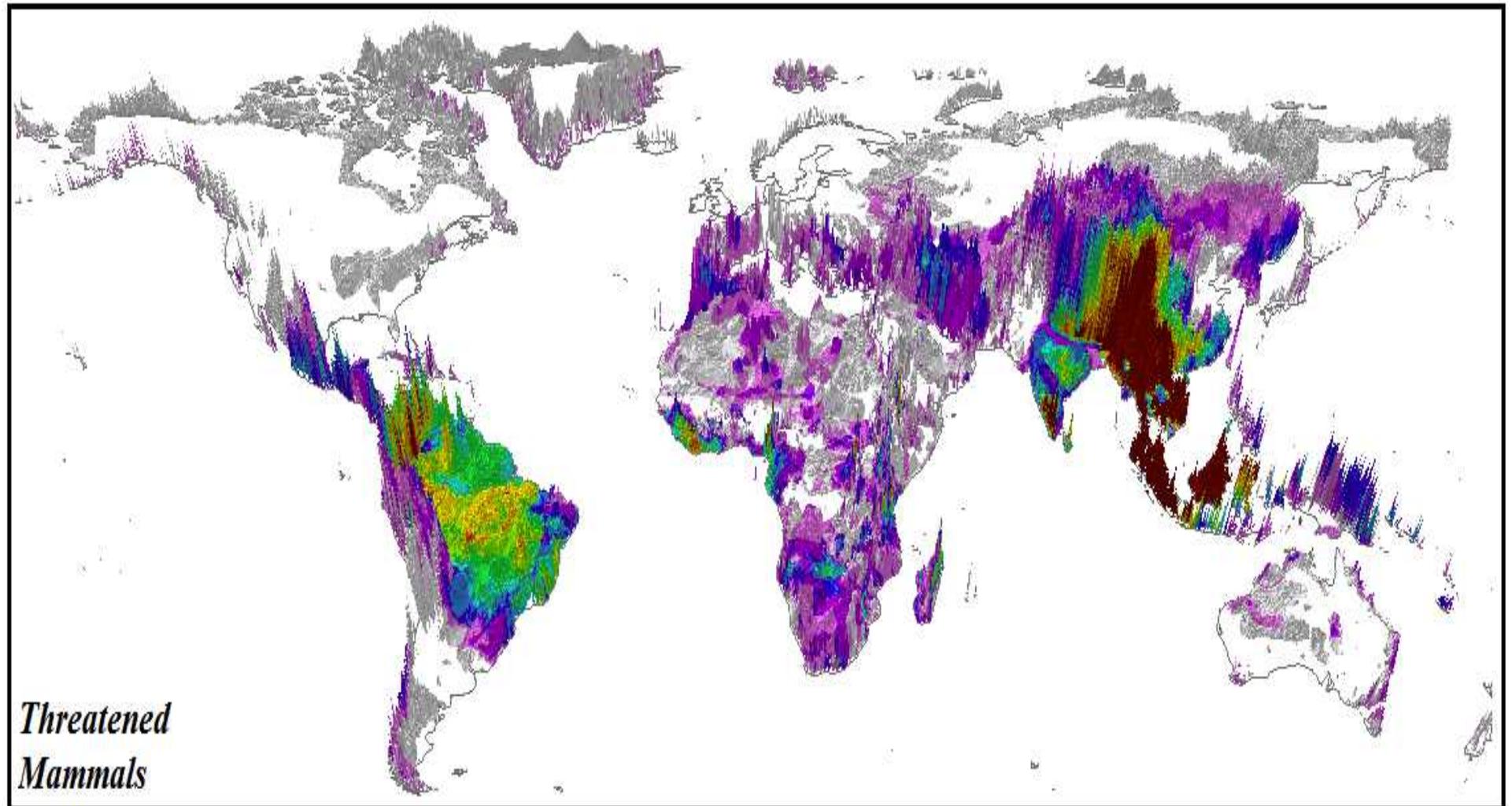
Alice. C. Hughes

Xishuangbanna Tropical Botanical Garden

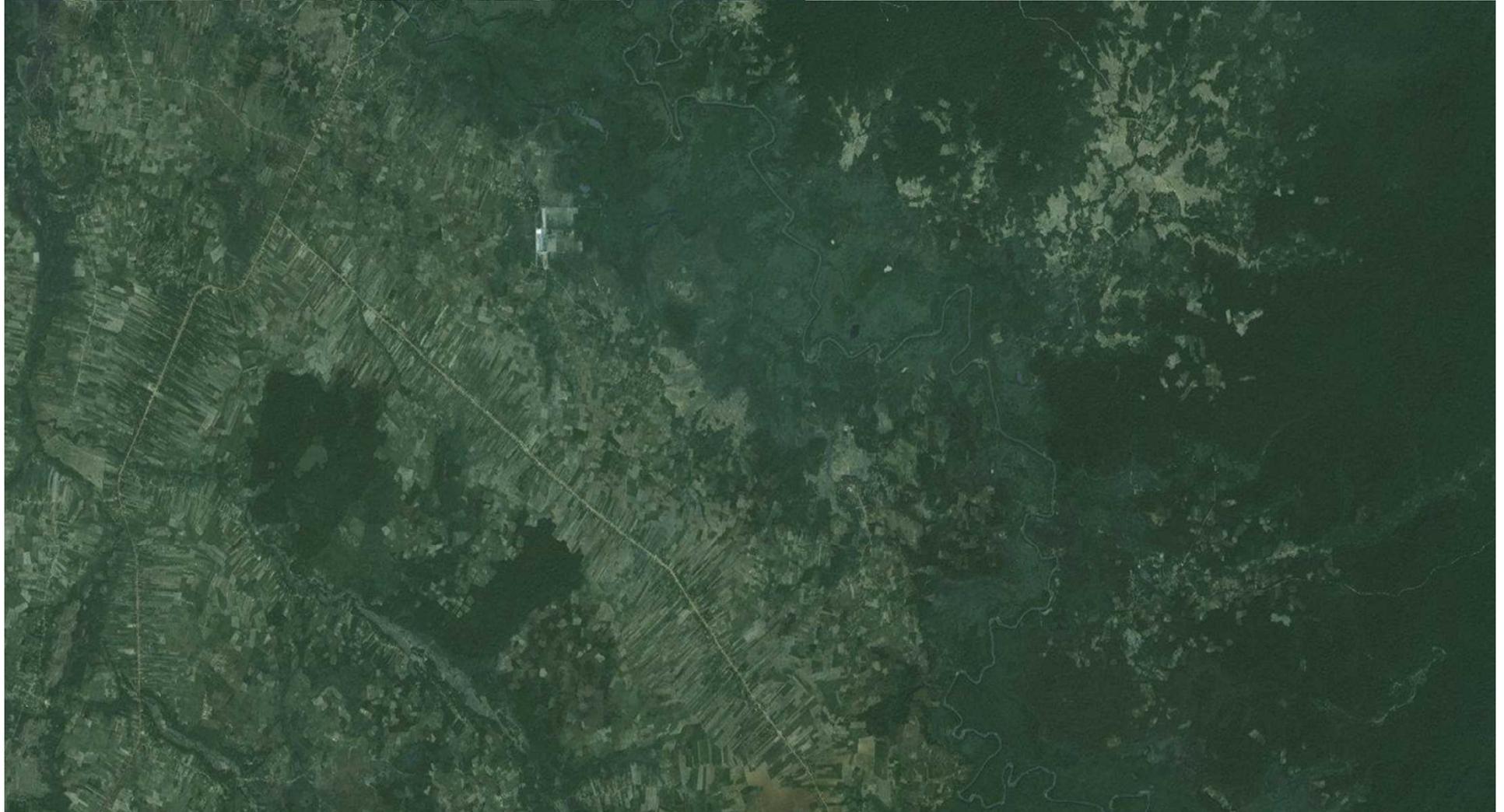
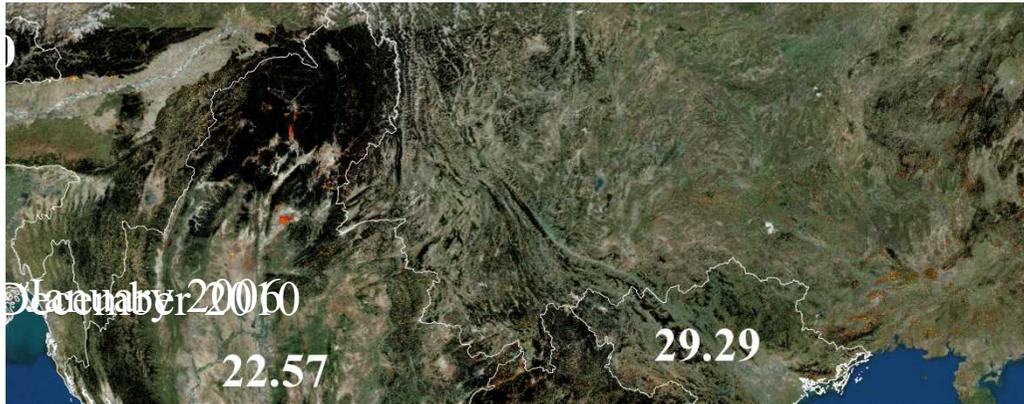
Chinese Academy of Sciences

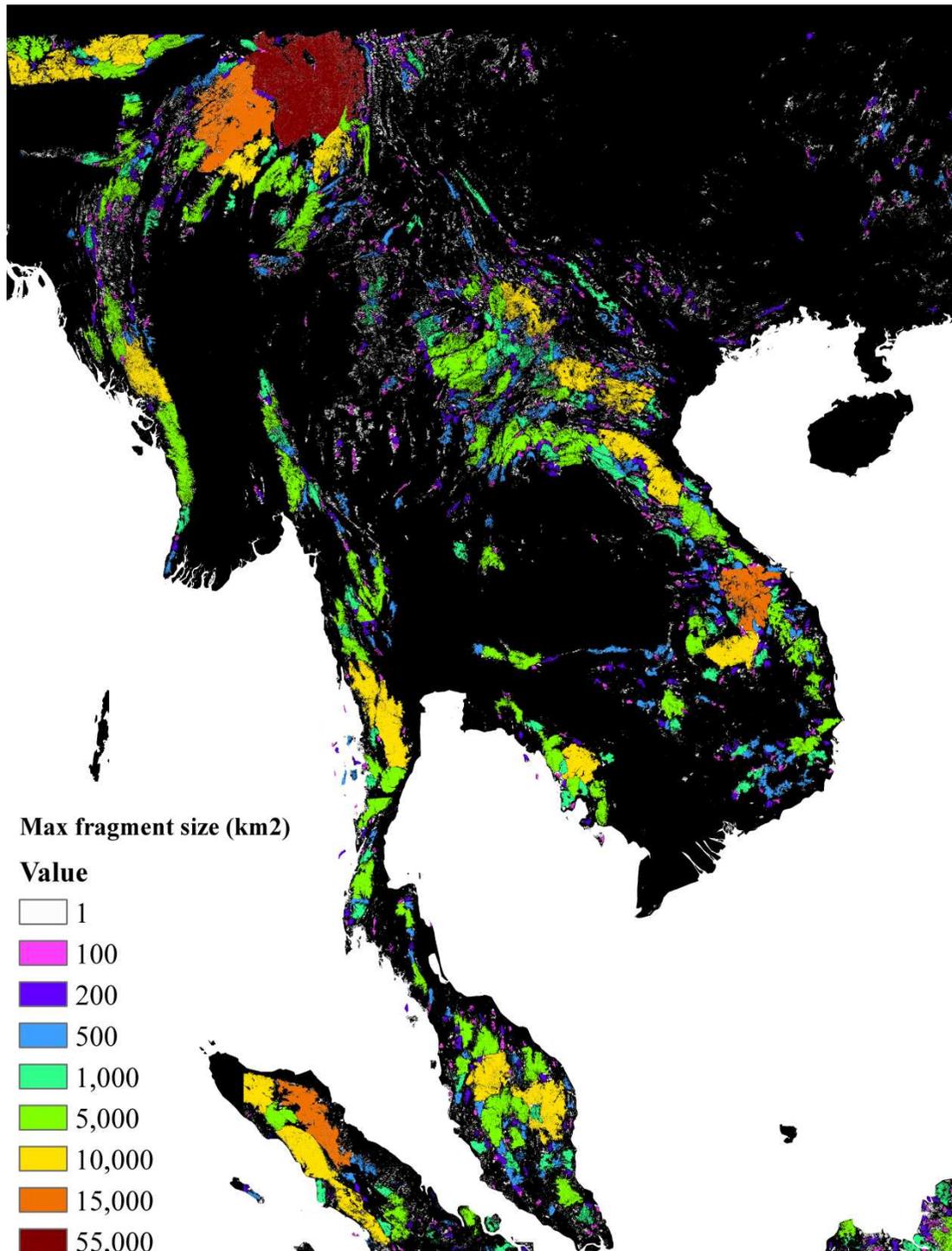


Threatened species

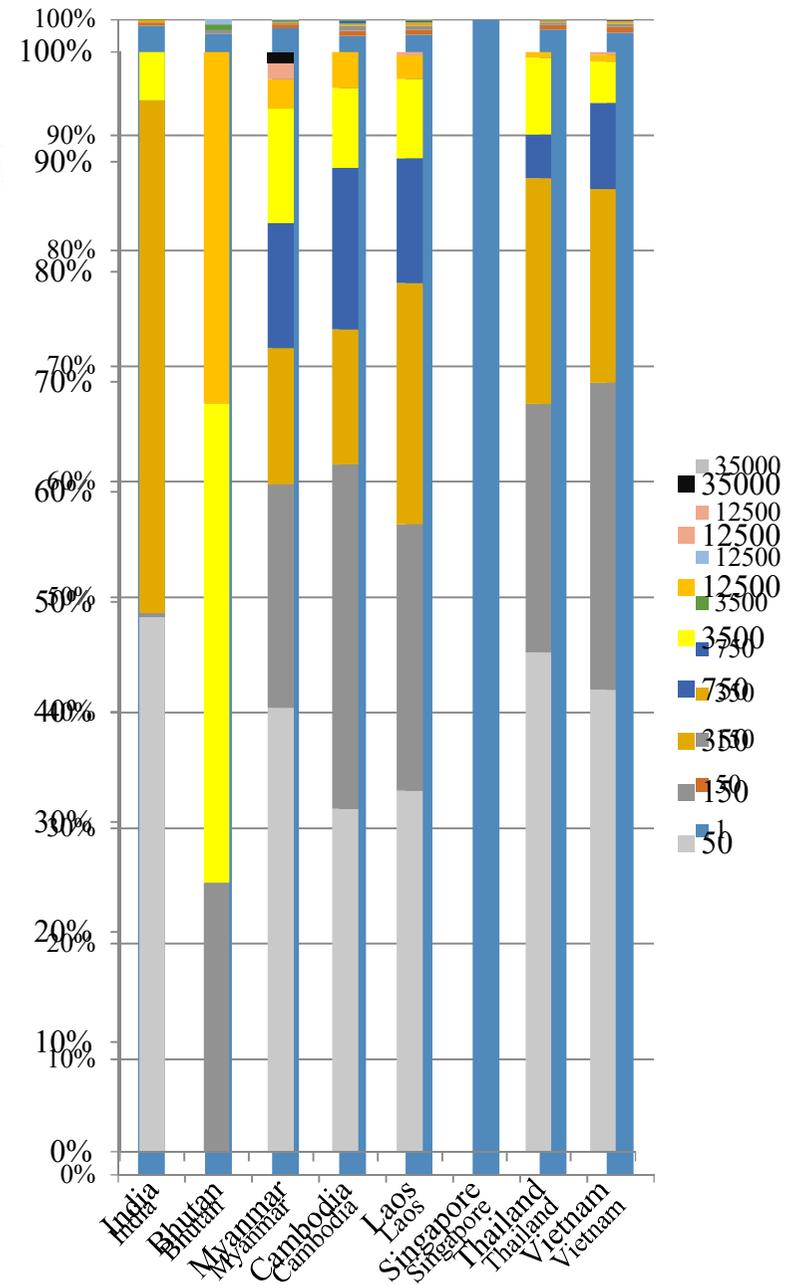


Deforestation

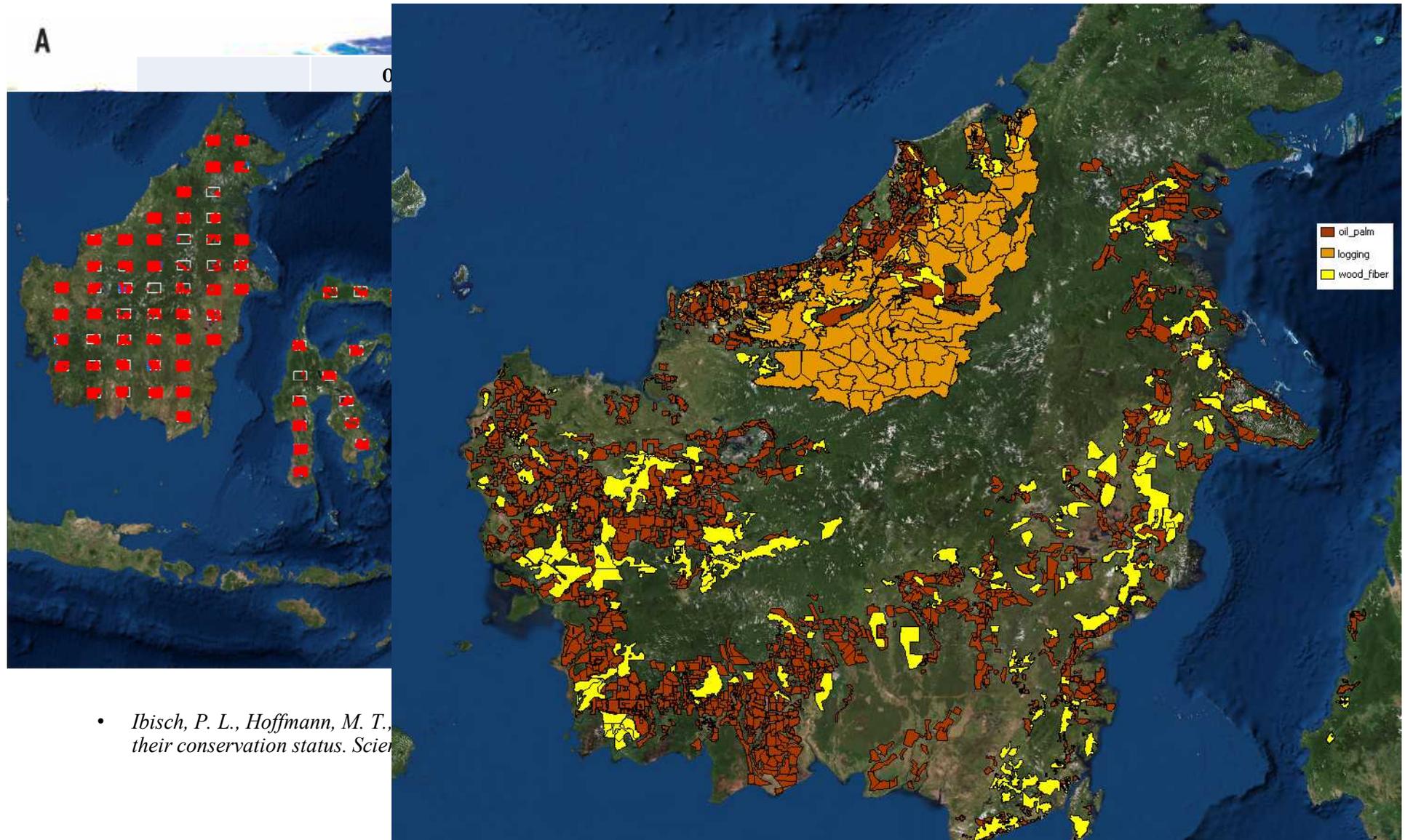




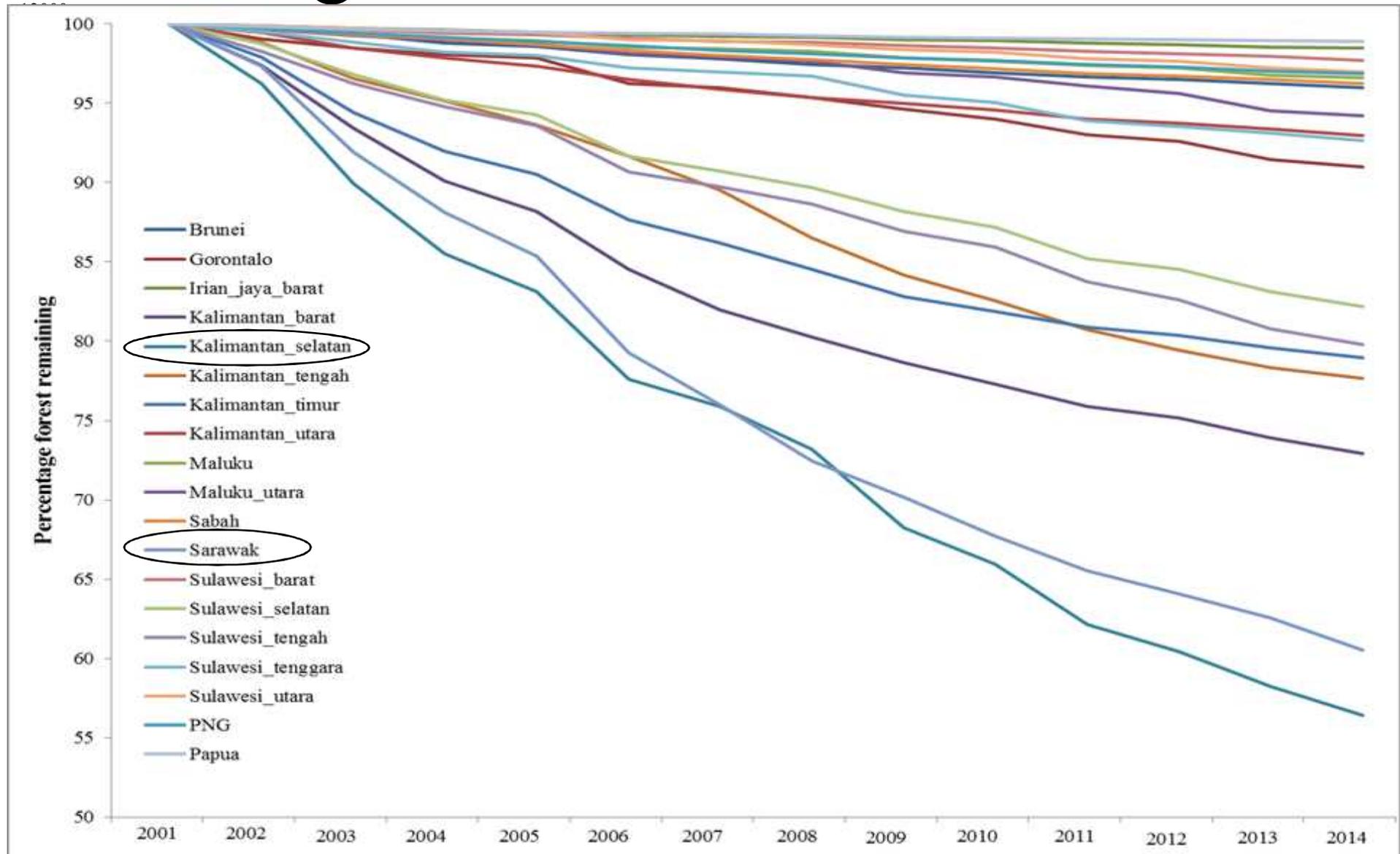
Number of fragments in different size classes



Losing the forests

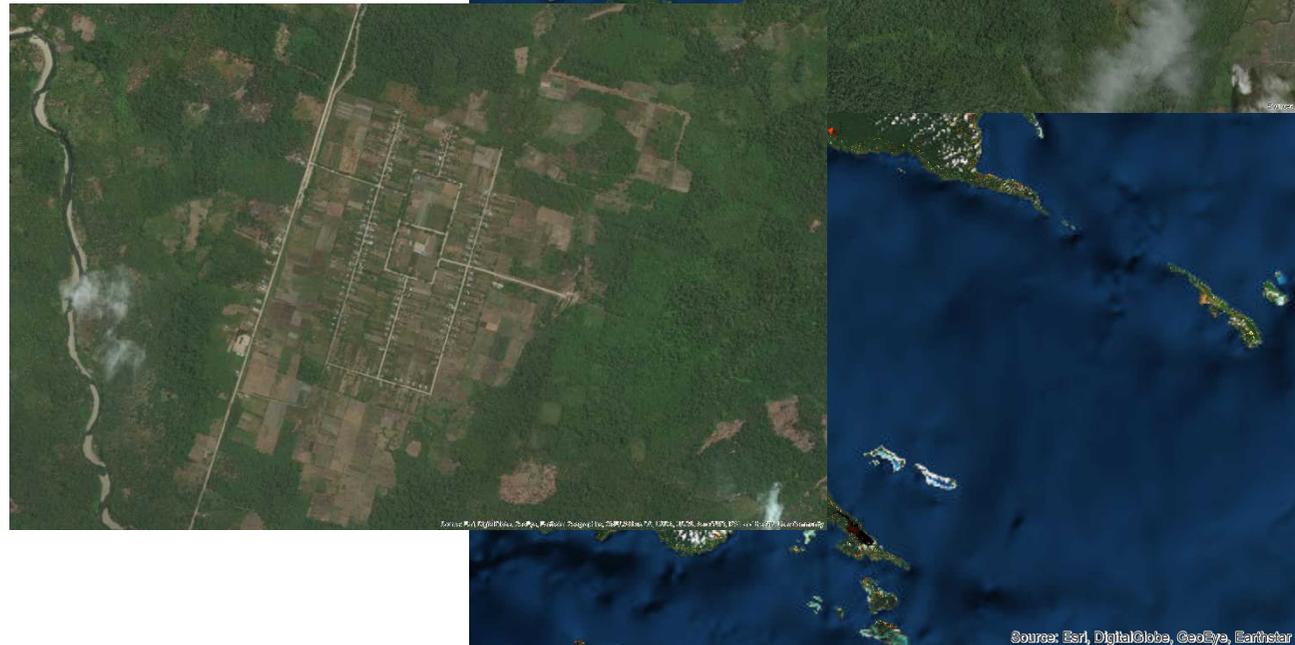
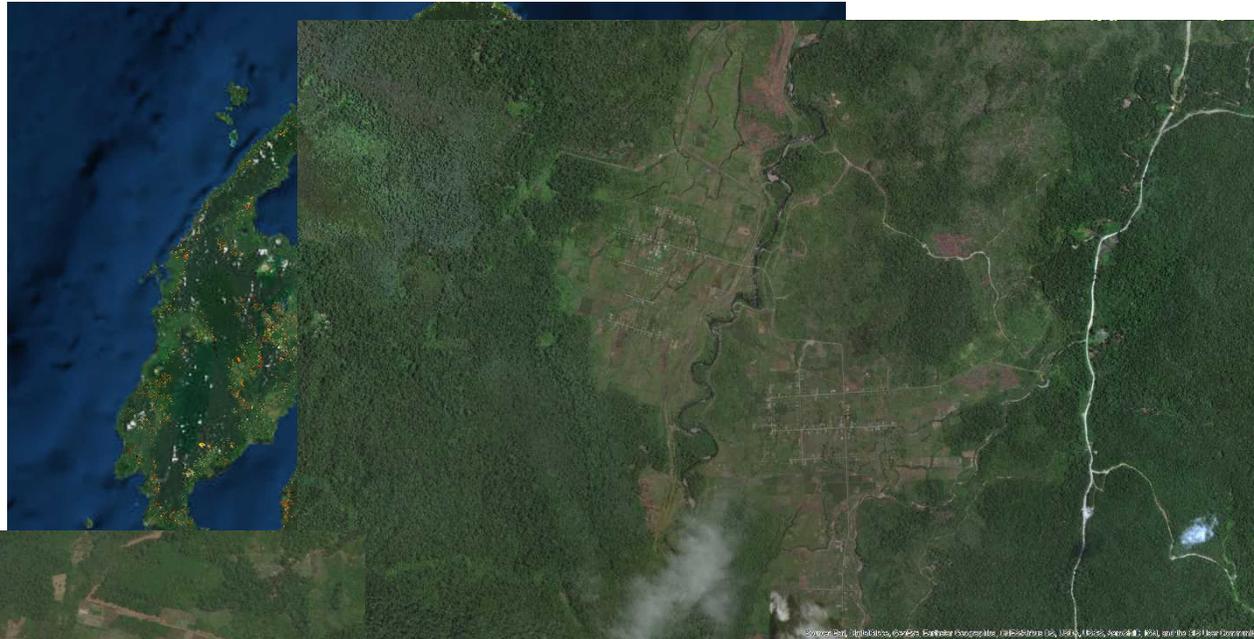


Losing the forests



Patterns & Processes

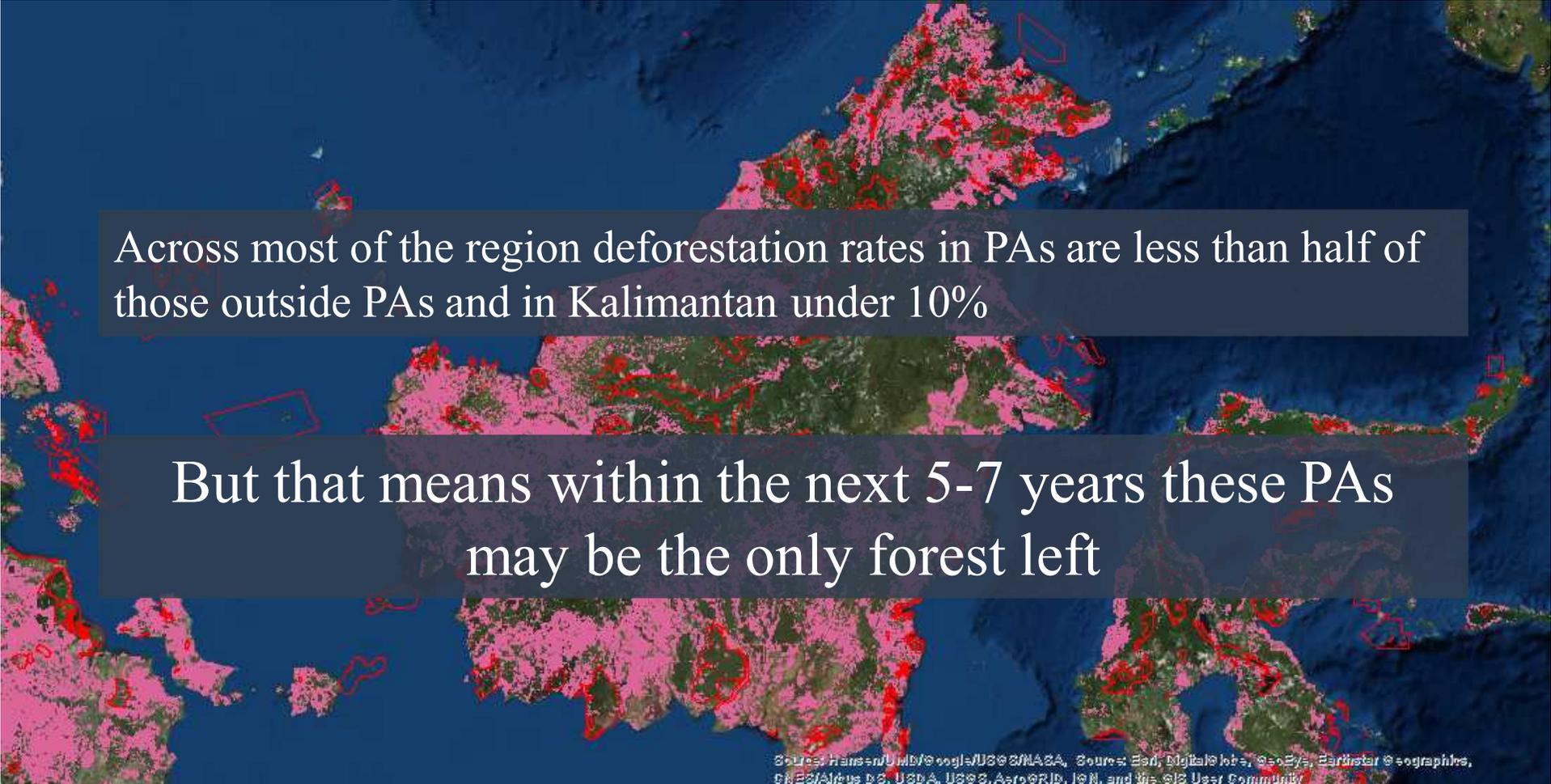
7.5% of deforestation resulted in plantations



A further 4.8% was for industrial housing developments

Losing the forests

- Becoming Java?

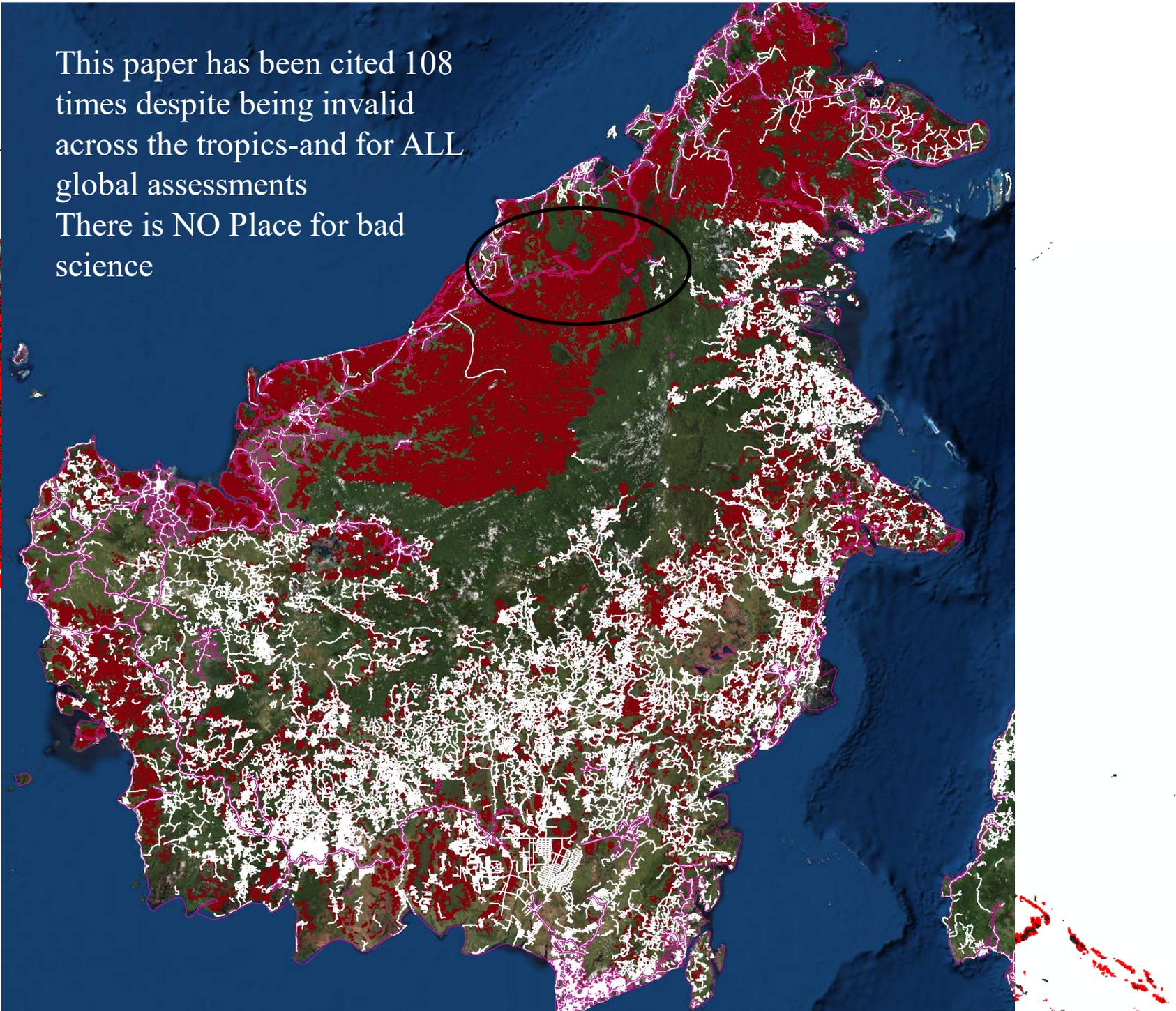
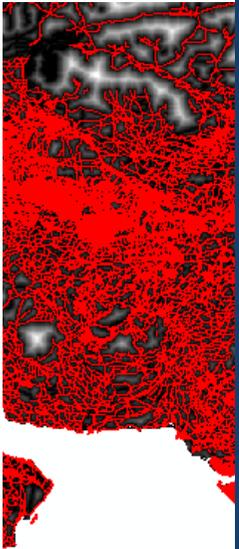


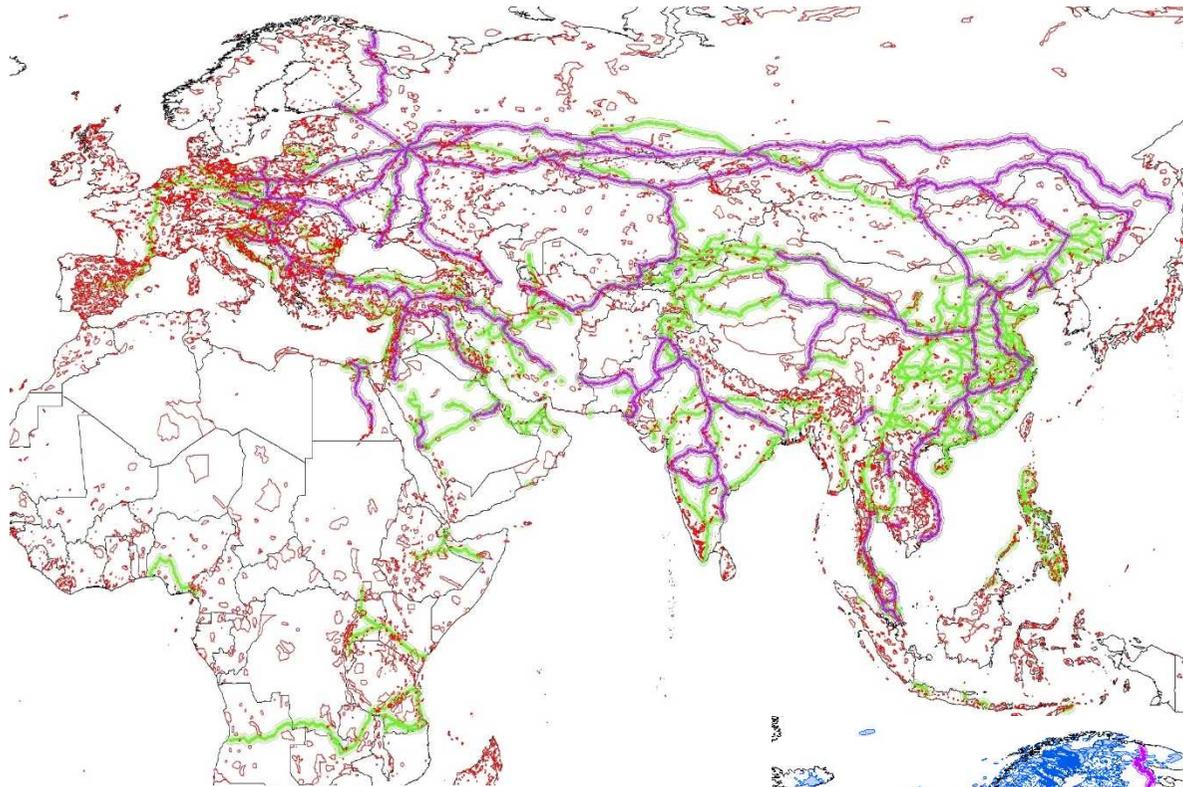
Across most of the region deforestation rates in PAs are less than half of those outside PAs and in Kalimantan under 10%

But that means within the next 5-7 years these PAs may be the only forest left

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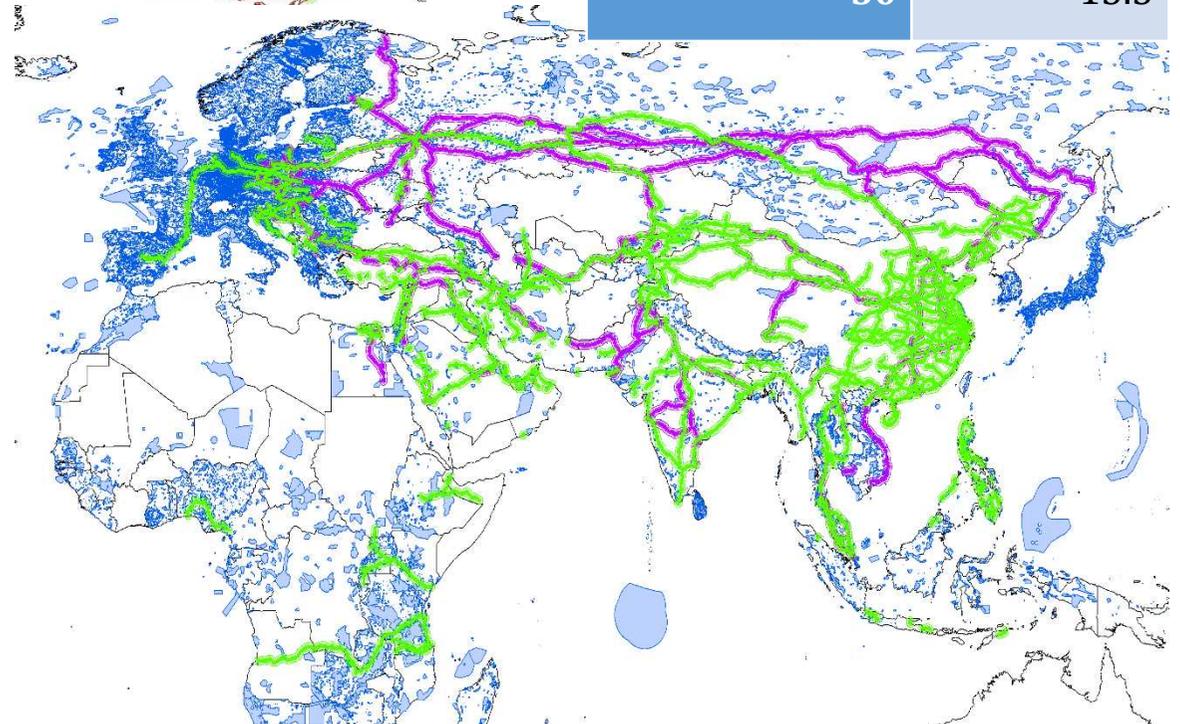
This paper has been cited 108
times despite being invalid
across the tropics-and for ALL
global assessments
There is NO Place for bad
science





Rail_km	%_Pas
1	0.1
7	0.6
14	1.3
30	3.0
50	6.8
Road_km	%_Pas
1	0.0
7	1.1
14	3.0
30	6.7
50	13.5

KM_Rail	No_KBAs	%_KBAs
1	440	14.9
7	477	19.9
14	580	27.5
30	830	40.2
50	1218	60.6
KM_Road	No_KBAs	%_KBAs
1	937	0.2
7	1164	1.9
14	1458	4.0
30	1957	8.6





Over 70% of species in some areas are undescribed

The IUCN list is also missing many species from analysis

Over 60 species are found south of the northern boundary

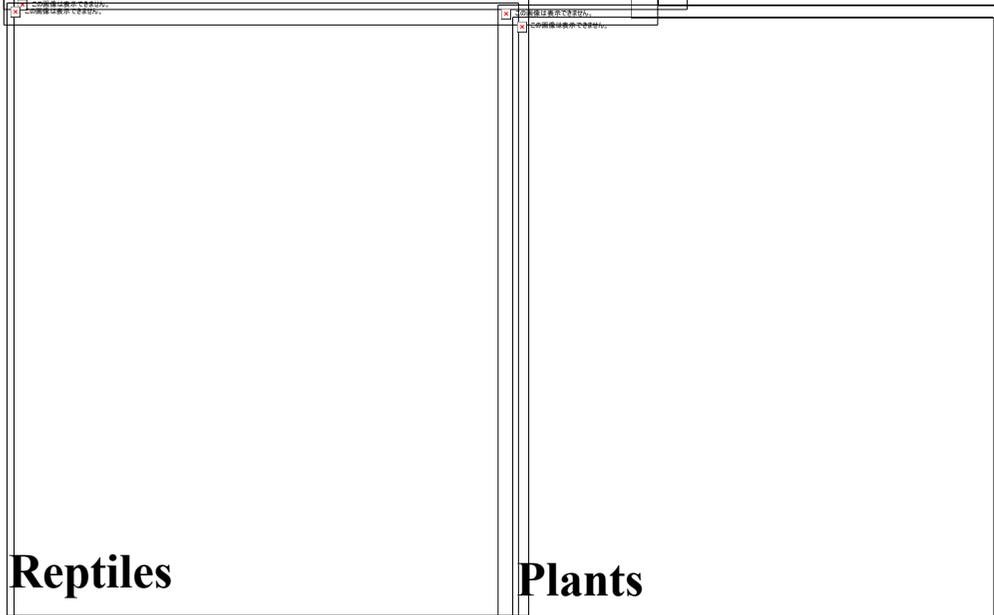
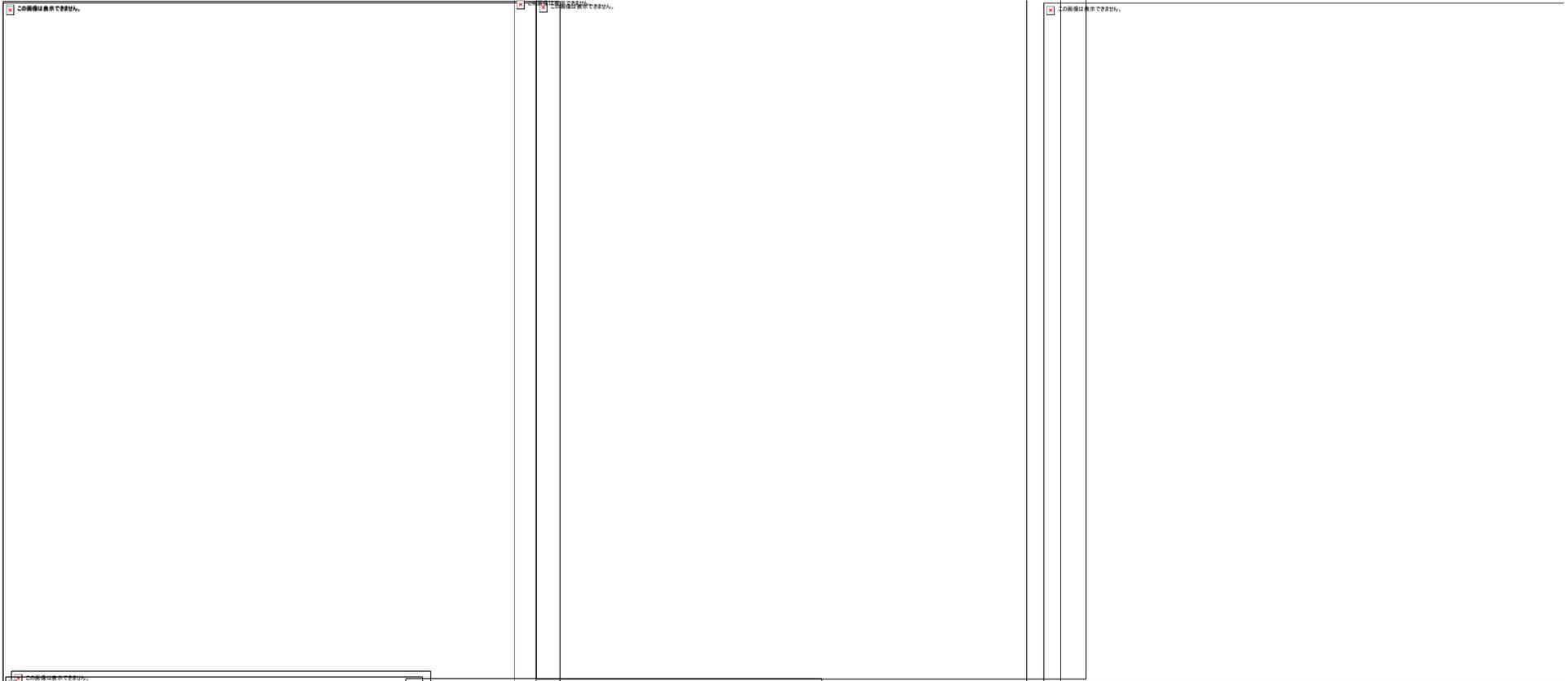


Help or Hindrance?

CAUTION

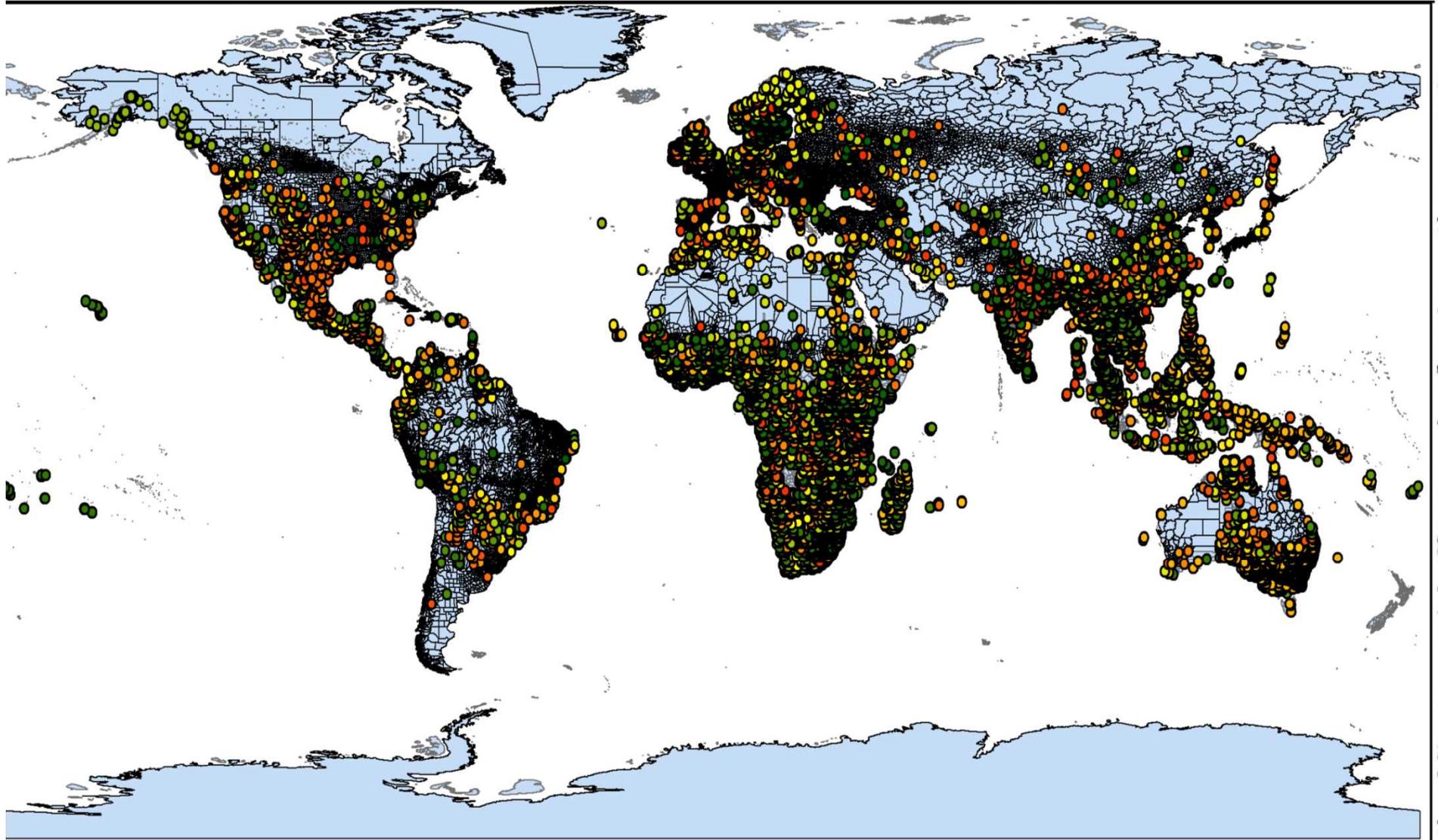
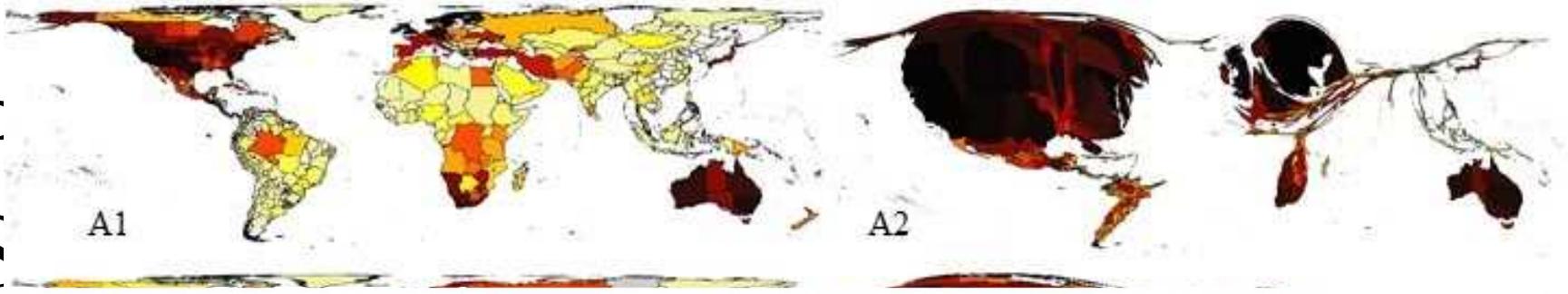
**CONSTRUCTION
AREA AUTHORIZED
PERSONNEL ONLY**

Taphozous theobaldi



Hotspots	50% Protected	75% Protected
Mammal	37.34	49.59
Reptile	13.46	10.20
Amphibian	33.78	55.49
Aves	32.90	19.51
NF Plants	30.2	23.9

F
S



Priorities for Conservation in Southeast Asia

- Target vulnerable ecosystems such as karst
- Explore mechanisms to reconnect the landscape
- Work with policy makers to ensure sound environmental impact assessments before development
- Education-to empower sustainable action
- Collaboration-international/interdisciplinary
- Connect!

Conservation in a changing world

- Globally forest cover continues to decrease
- For global conservation to be successful we need to understand the drivers and their sources
- Conventions like CBD must explicitly address embodied impacts, as diverse developing countries cannot afford principals-and new mechanisms are needed



Questions?