





What is endemism?

Malaysia*

Area: 329,847km²

Number of Birds: 695

Number of endemic birds: 6

0,8 %

Vietnam*

Area: 331.120 Km²

Number of Birds: 820

Number of endemic birds: 10

1,2%

Philippines**

Area: 300.000 Km²

Number of birds: 673

Number of endemic birds: 234

34,7 %

Borneo[‡]

Area: 743.380 km²

Number of Birds: 669

Number of endemic birds: 52

7,8 %

* Source: Birdlife International, www.birdlife.org

** Source:WBCP 2013 Checklist

[‡] Source: Philipp's field guide to the birds of Borneo

Source: Google Earth. Image Landgat . Data StO, NOAA, Nave, NGA, GEBCO. Image IBCAO

Why is endemism important?

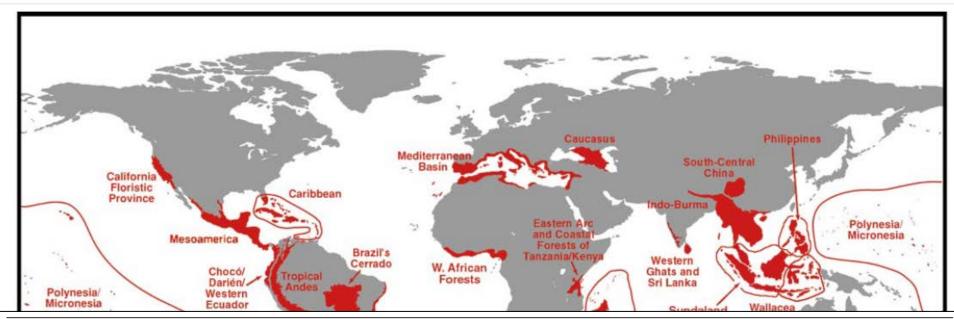
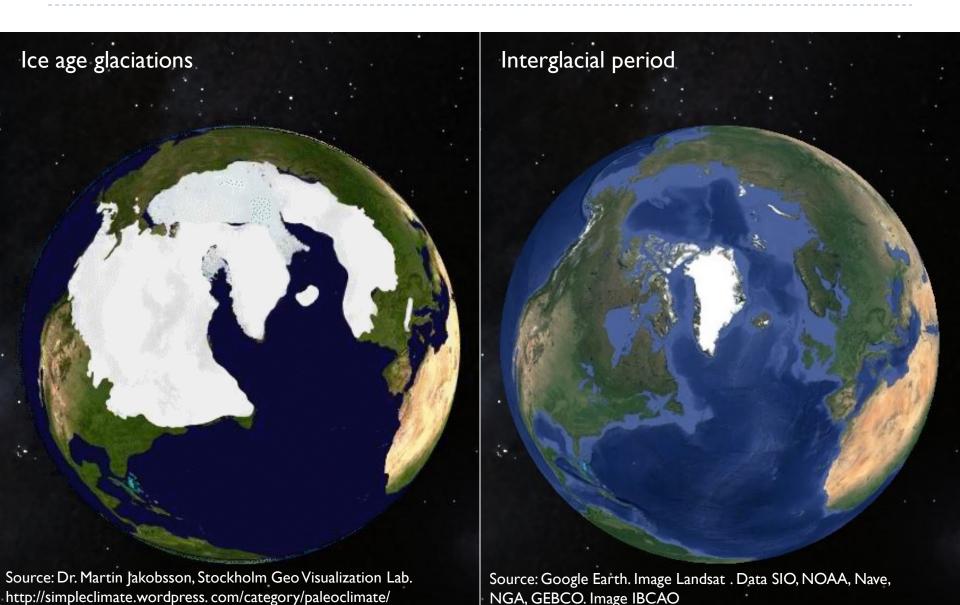


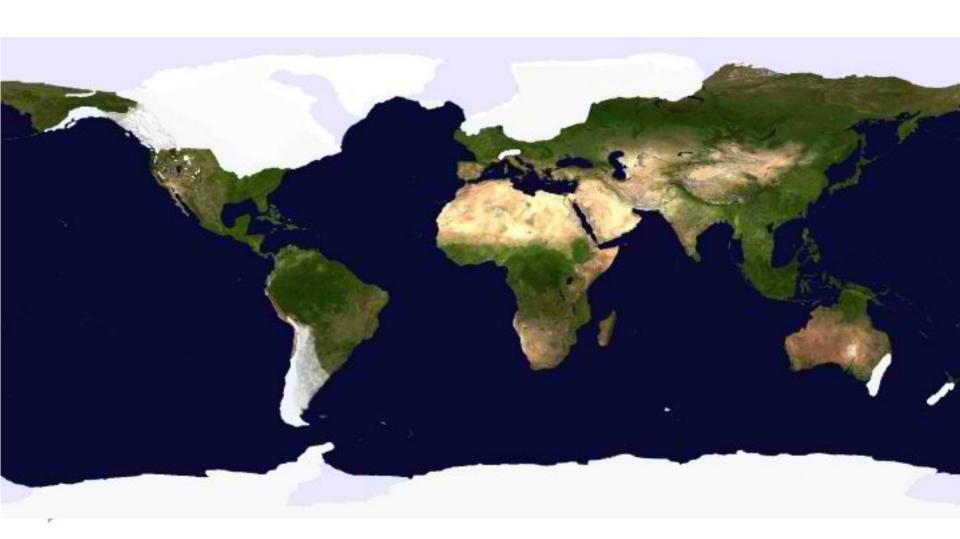
Table 6 The eight hottest hotspots in terms of five facto	Table 6	The eight hottest	hotspots in terms	of fiv	e factors
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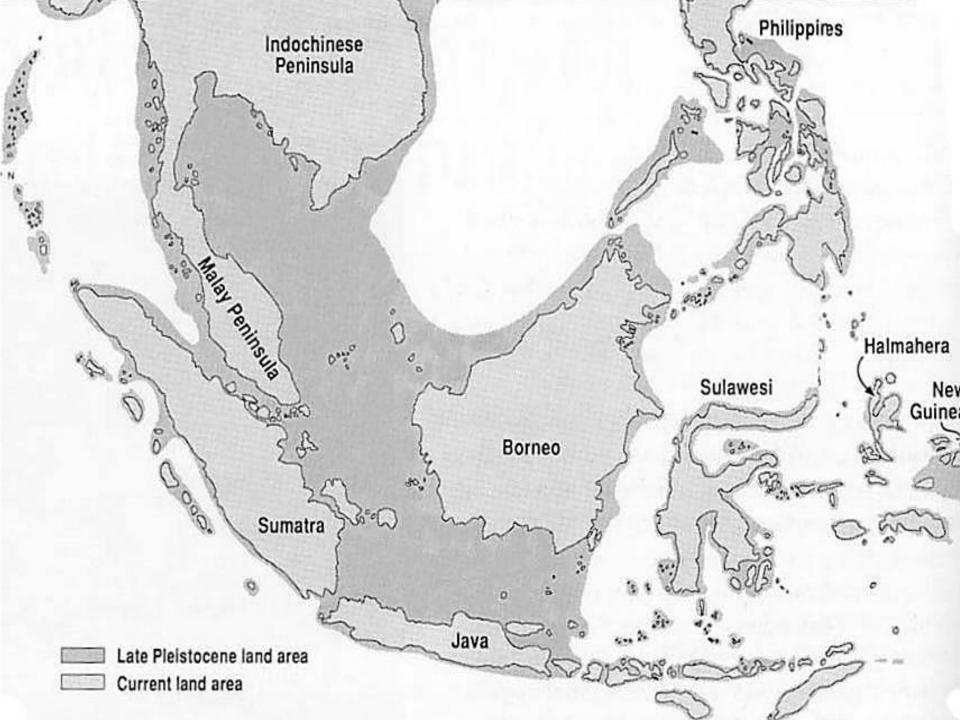
Hotspot	Endemic plants		Endemic vertebrates		Endemic plants/ area ratio (species per 100 km²)		Endemic vertebrates/area ratio (species per 100 km²)		Remaining primary vegetation as % of original extent		Times appearing in top 10 for each of five factors
Madagascar	9,704	4	771	4	16.4	8	1.3	7	9.9	9	5
Philippines	5,832	8	518	9	64.7	2	5.7	2	3.0	1	5
Sundaland	15,000	2	701	5	12.0	10	0.6	10=	7.8	7	5
Brazil's Atlantic Forest	8,000	5	654	6	8.7		0.6	10=	7.5	6	4
Caribbean	7,000	6=	779	3	23.5	6	2.6	4	11.3		4
Indo-Burma	7,000	6=	528	8	7.0		0.5		4.9	3	3
Western Ghats/Sri Lanka	2,180		355		17.5	7	2.9	3	6.8	5	3
Eastern Arc and Coastal Forests of Tanzania/Kenya	1,500		121		75.0	1	6.1	1	6.7	4	3

Source: Myers, N., R.A. Mittermeier, C.G. Mittermeier, G.A.B. da Fonseca & J. Kent (2000): Biodiversity hotspots for conservation priorities. *Nature* pp: 853-858

Why are some species endemic?





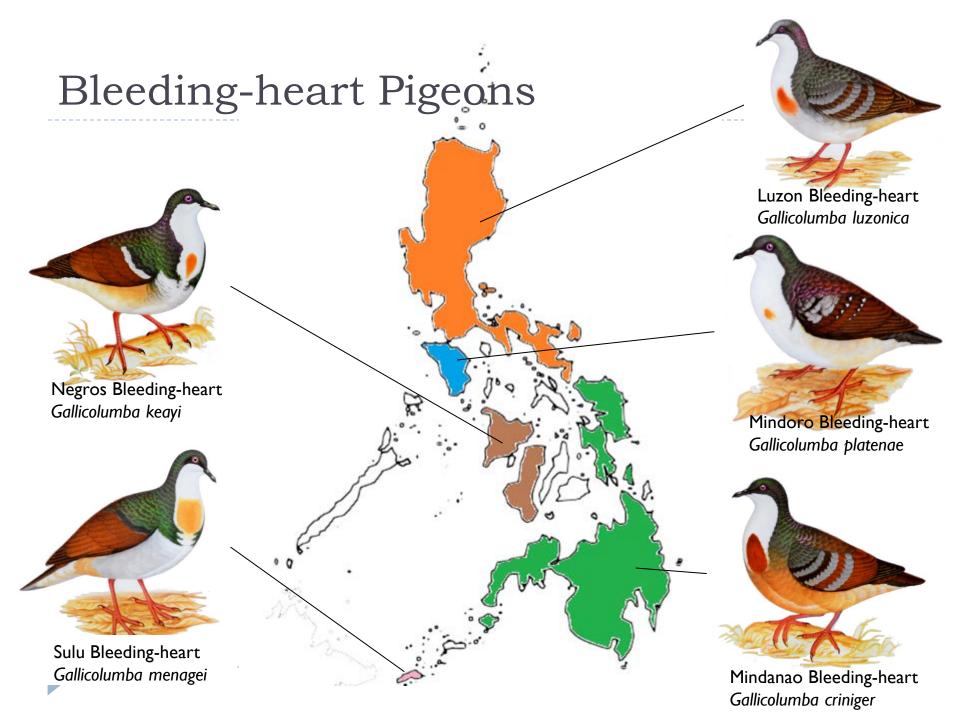


Faunal Regions in the Philippines

- Greater Luzon
- Mindoro
- West Visayas
- Greater Mindanao
- Sulu Islands
- Greater Palawan

And several sub-regions, e.g.:
Batanes Group, Babuyan Group,
Lubang, Romblon & Tablas, Sibuyan,
Siquijor and Camiguin Sur







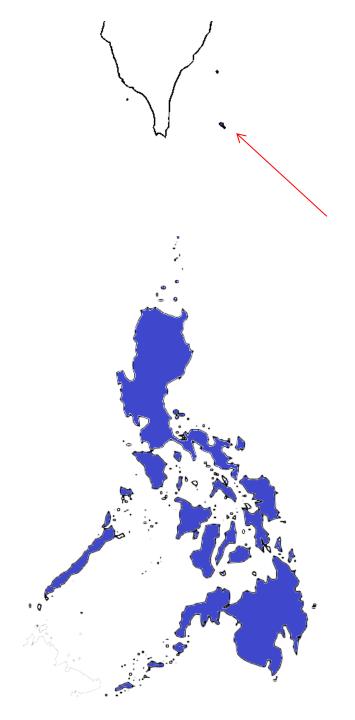
▶ Non-endemic





- Near-endemic
 - ▶ 10 species





- Non-endemic
- Country-endemic / Philippine endemic
 - □ 234 species for the Philippines







- Non-endemic
- Country-endemic / Philippine endemic

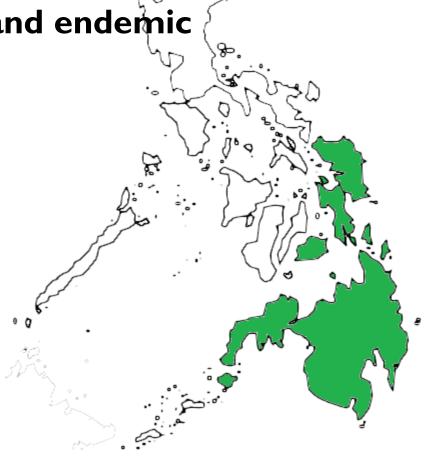
Greater island / Ice age island endemic

□ 51 species for Greater Mindanao



Mindanao Tarictic Hornbill

Penelopides affinis



Non-endemic

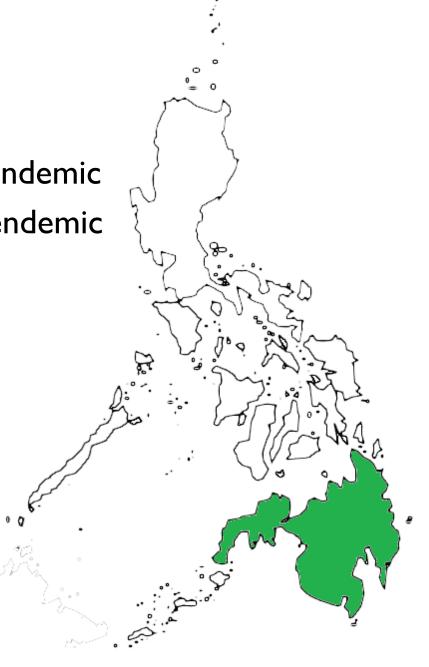
Country-endemic / Philippine endemic

Greater island / Ice age island endemic

Island endemic

□ 20 species for Mindanao Island



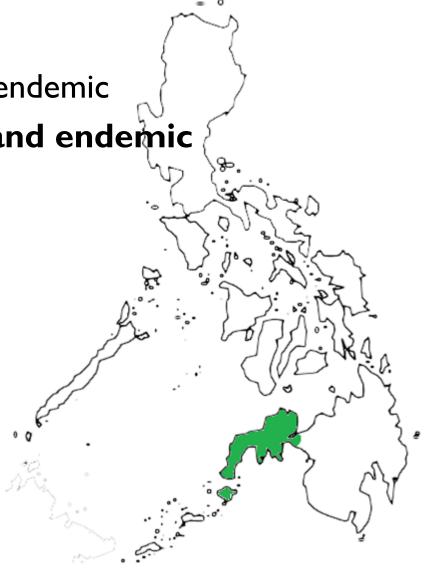




- Non-endemic
- Country-endemic / Philippine endemic

Greater island / Ice age island endemic





Range of two species **Eurasian Treesparrow** Zamboanga Bulbul Passer montanus **Ixos** rufigularis



Blue-capped Wood Kingfisher

Actenoides hombroni

Vulnerable

Endemic to Mindanao



Number of IUCN threatened species: 81
52 Vulnerable, 14 Endangered and 15 Critically Endangered

Near Threatened 63, Data Deficient 5





With a big thanks to the photographers

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- ▶ Alain Pascua
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Questions?

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 & T.H. Fisher (2000). A guide to the birds of the Philippines
- IUCN red list of endangered species. www.redlist.org
- ▶ Google Earth 2014