

Bringing Domestic Adaptation Efforts in Concert
National Government Network in Indonesia

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20th Asia Pacific Seminar, Bangkok-Thailand, 14-15 March 2012

Indonesia: archipelagic country



Area: 1.910.931 km² (total);
1.811.569 km² (land) and 93.000 km² (water, 4.88%), coastline + 81.000 km

Country's Capital and most of the provincial-capitals: coastal areas.

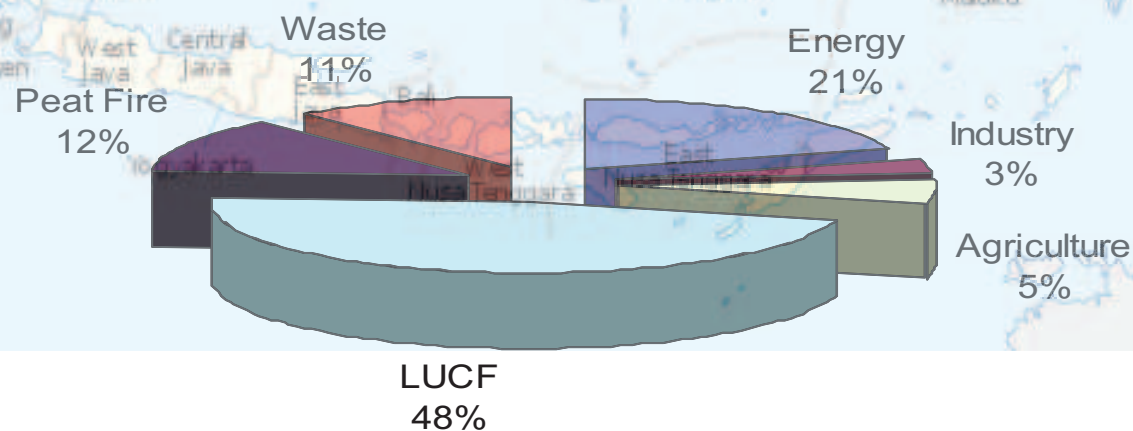
Population (2011 census): 237.424.363, 65% populated in coastal areas.

Climate: affected by monsoon Asia-Australia.

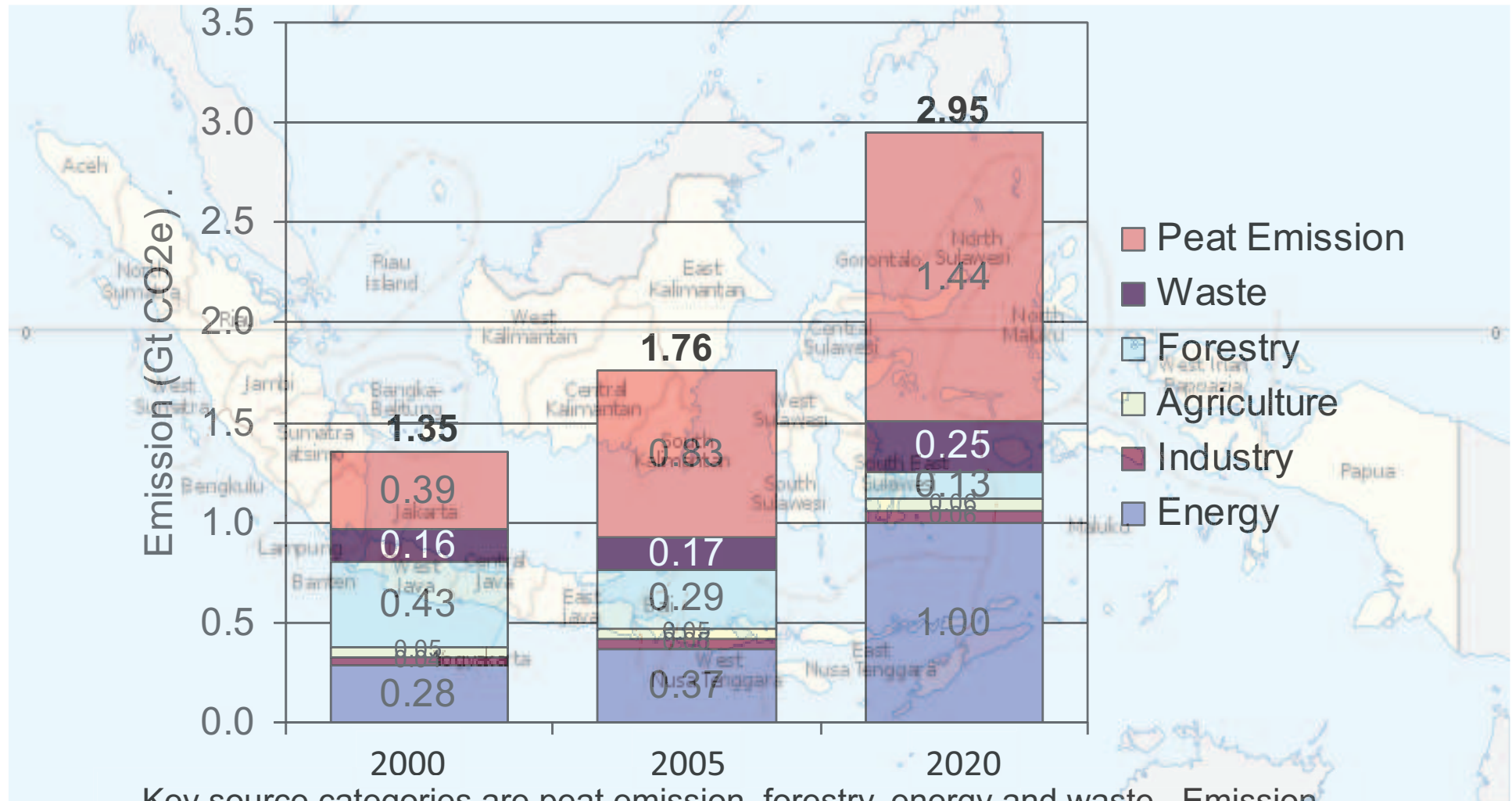
2000 GHG Emission Summary

(in Giga gram)

	CO2 emission	CO2 removal	CH4	N2O	PFC	CO2e
Energy	247,522		1,437	10		280,938
Industry	40,342		104	0.43	0.02	42,815
Agriculture	2,178		2,419	72		75,420
EUCF	1,060,766	411,593	3	0.08		649,254
Peat Fire*	172,000					172,000
Waste	1,662		7,294	8		157,328
TOTAL	1,524,472	411,593	236,388	28,341	~1.38 Gt CO2e	377,754

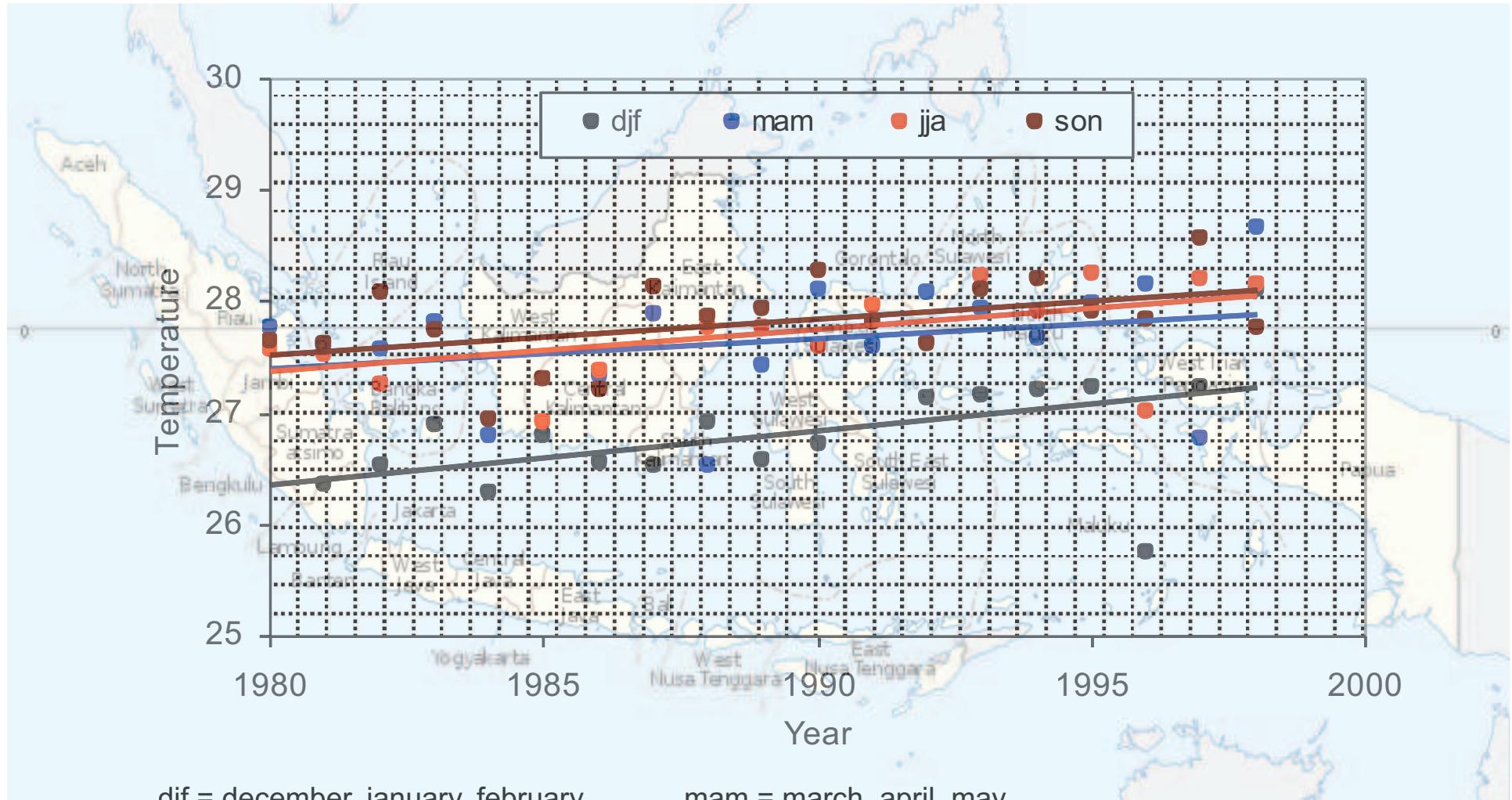


Indonesia's net-emission was predicted → increase from 1.35 to 2.95 GtCO₂e between 2000 and 2020



Key source categories are peat emission, forestry, energy and waste. Emission from peat fire was taken from van der Werf et al (2007). The figure in the charts did not include emission from emission from liming and fertilizing

Trend of Temperature Increase: Jakarta



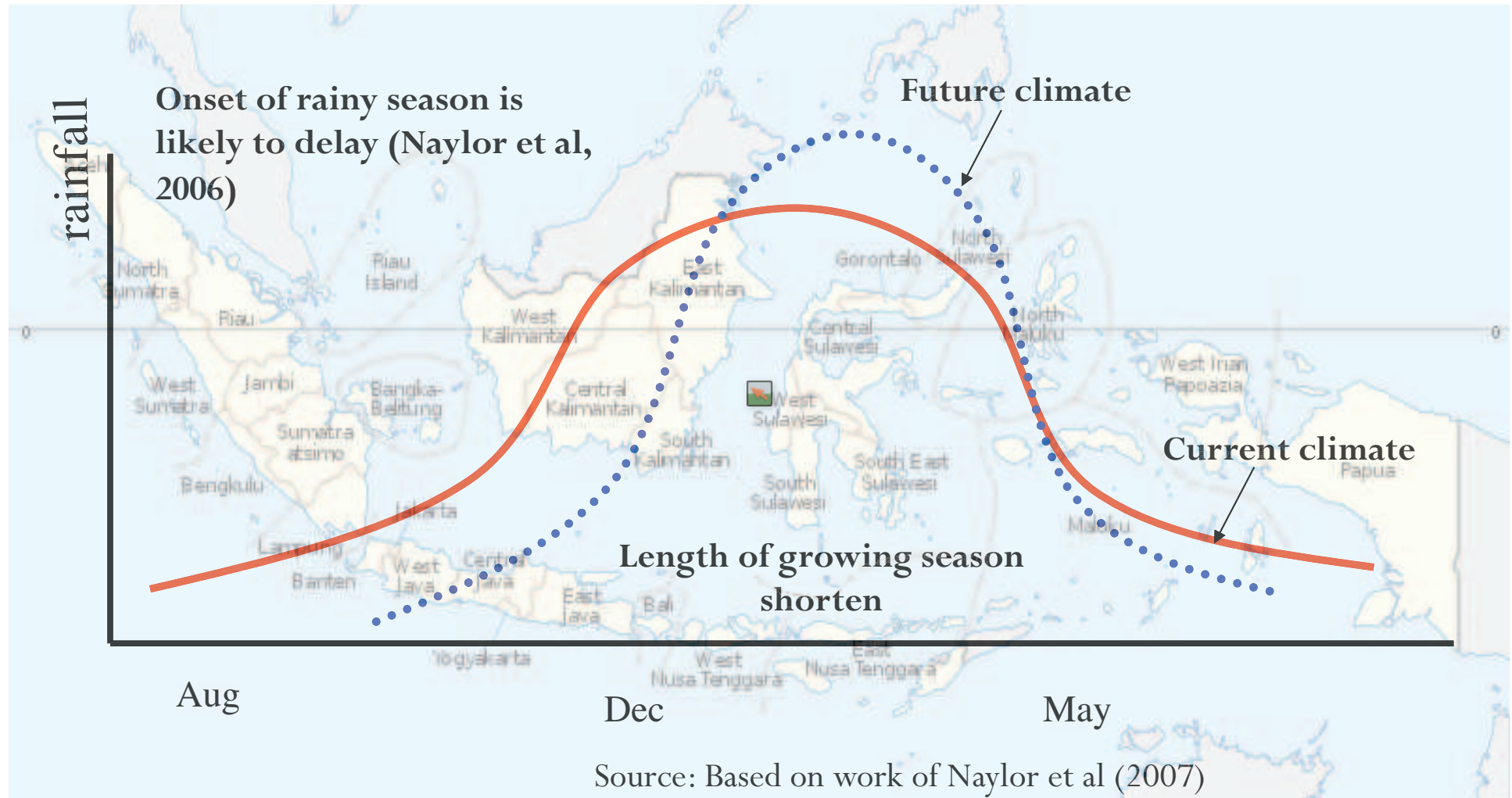
djf = december, january, february

mam = march, april, may

jja = june, july, august

son = september, october, november

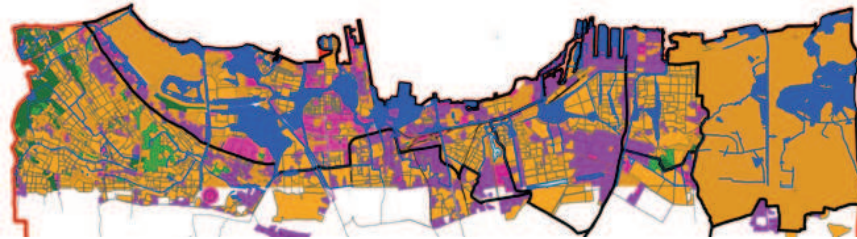
Likely Change of Rainfall Pattern in Java and Bali



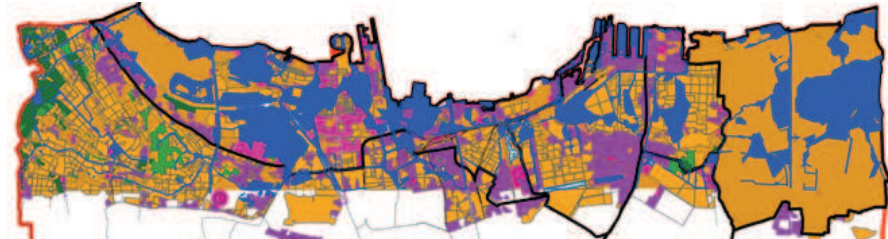
The change of rainfall will effect water-related sectors, such as water resources, agriculture, infrastructure (include settlement, transportation, hydro power plant and spatial planing), fisheries, swamp and peat as well as coastal areas.

Example: Impact of SLR on North Jakarta in 2050

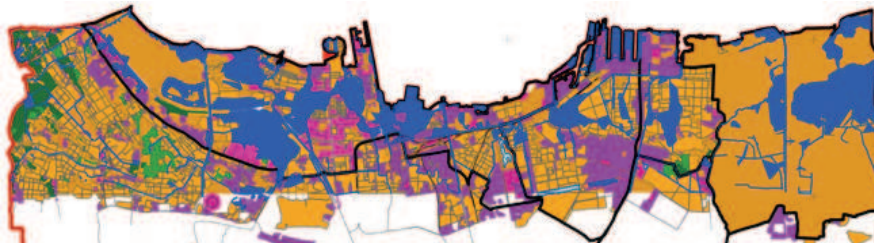
SLR: 0.25 cm/year no land subsidence



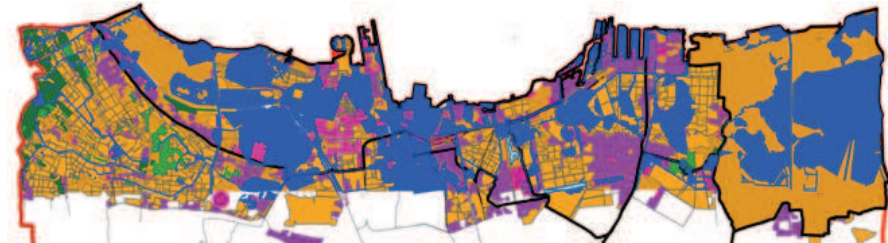
SLR: 0.25 cm/year with land subsidence



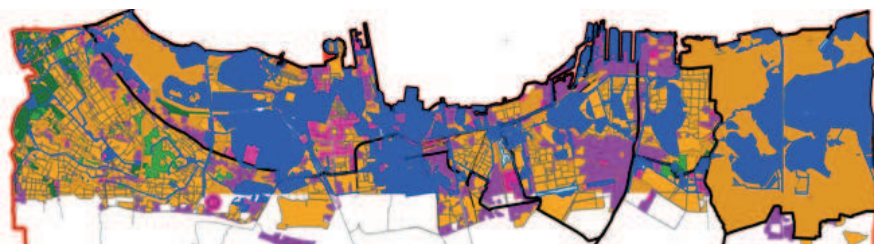
SLR: 0.57 cm/year no land subsidence



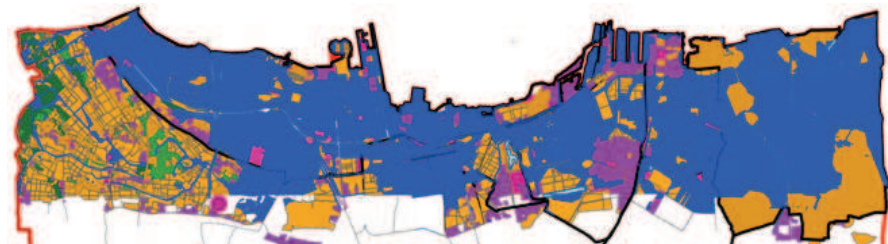
SLR: 0.57 cm/year with land subsidence



SLR: 1.00 cm/year no land subsidence

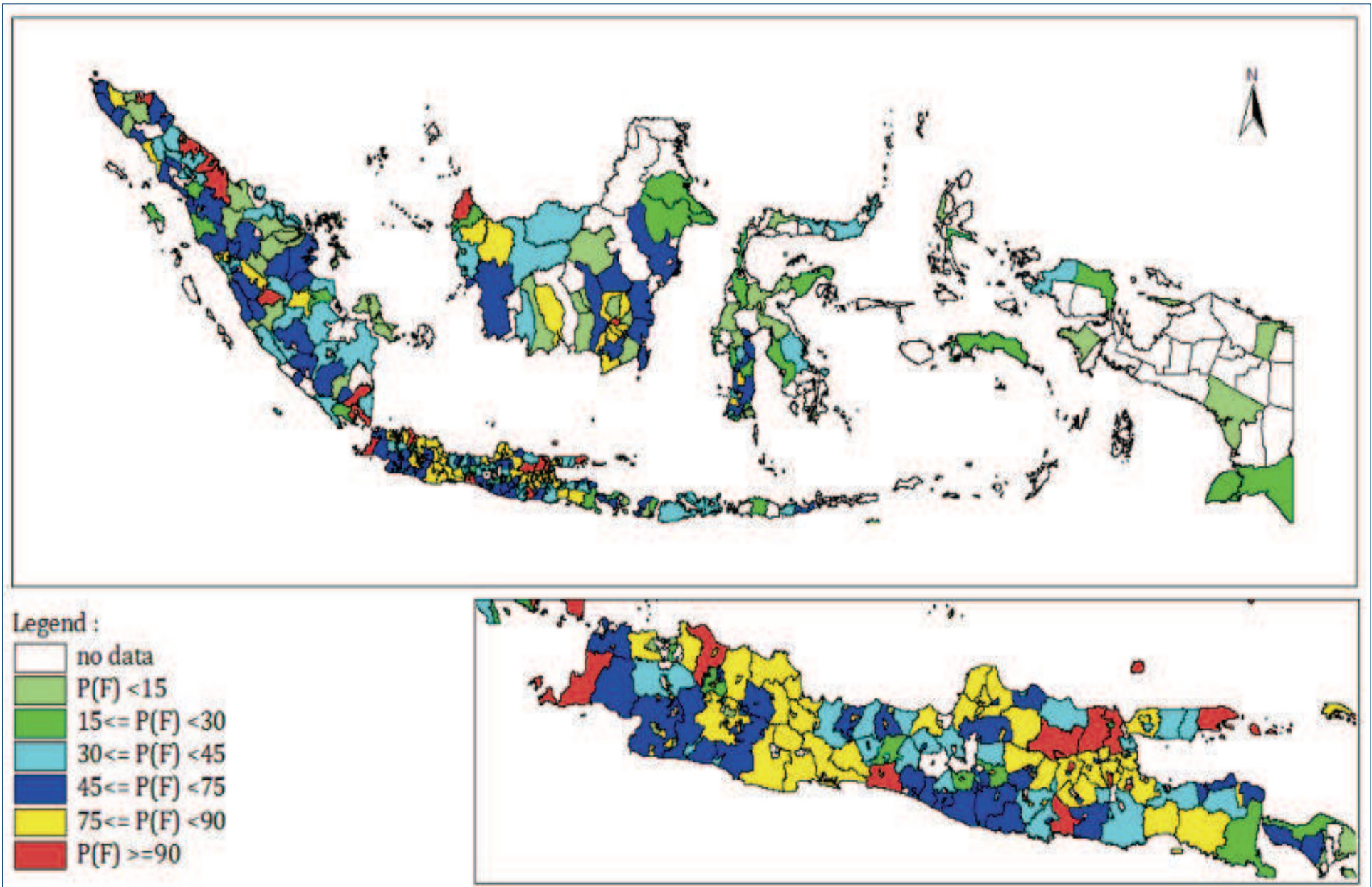


SLR: 1.00 cm/year with land subsidence

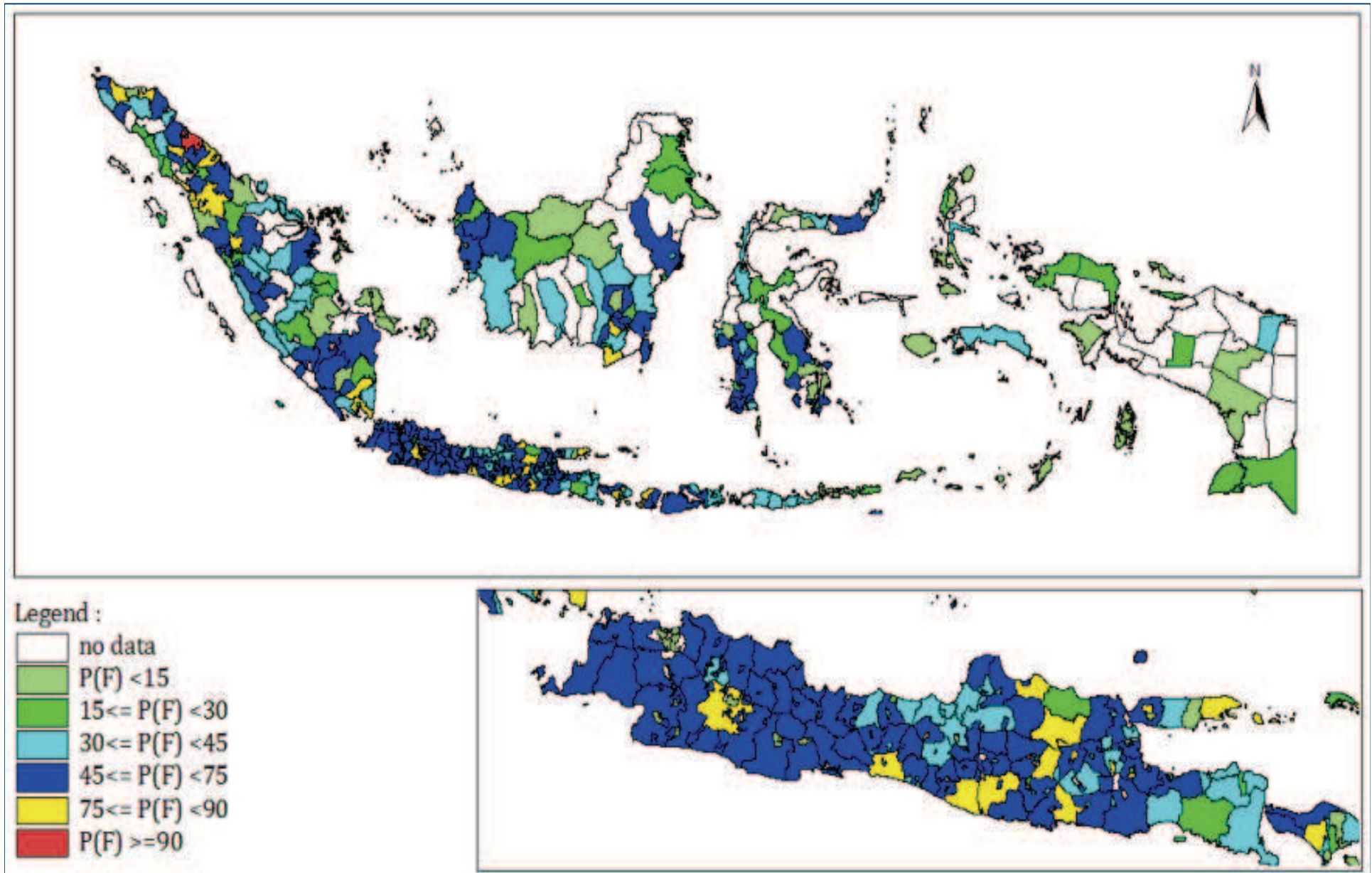


Source: Marine and Coastal Development Centre-ITB, 2007

Frequency of Drought Event in Last 15 Years



Frequency of Flood Event in Last 15 Years

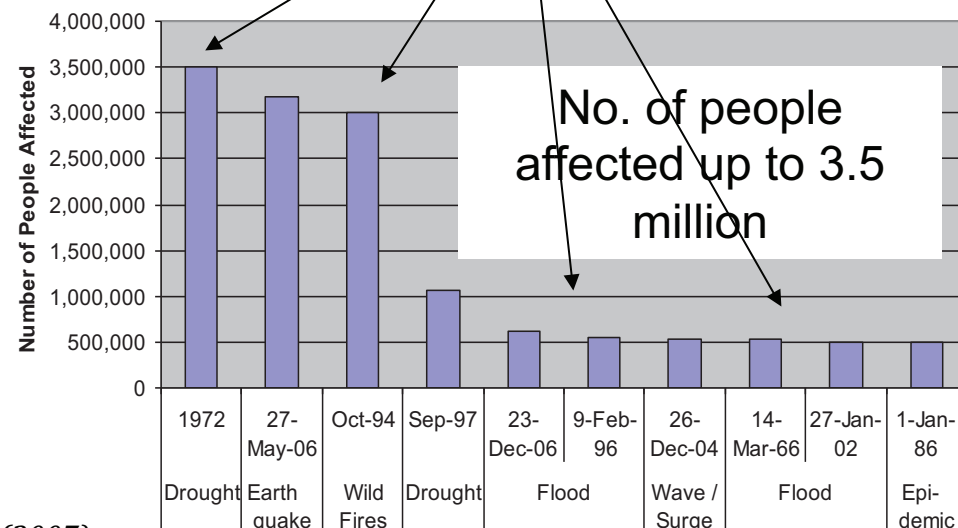
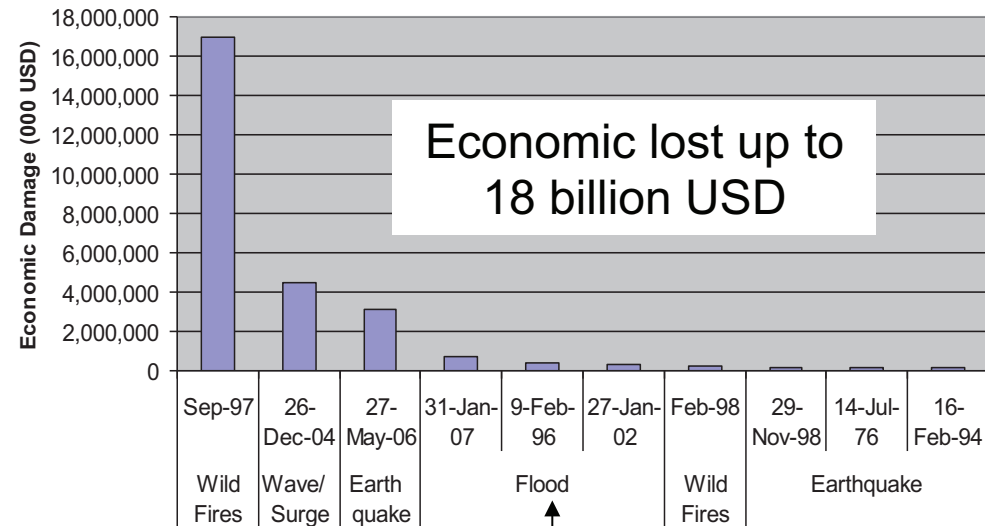


Climate-related disasters in Indonesia



Natural Disasters in Indonesia (1907-2007)

- The Top 10 natural disasters occurred in the period of 1907-2007 were mostly climate related disasters, i.e. flood, drought, fires
- Most of them occurred recently (1990s) indicating that the intensity and frequency of extreme climate events increased in the recent climate



Source: The OFDA/CRED International Disaster Database (2007)

Disaster in Indonesia (2010)

