

Region-wide synchrony and traveling waves of dengue across eight countries in Southeast Asia

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Traveling waves background

- ▶ This work was a followup to Derek AT Cummings paper on the traveling waves of Thailand (2004)
- ▶ That paper used wavelet analysis on Thailand to show that there were inter-annual synchrony between neighboring provinces and multi-annual trends (“waves”) in dengue that pulsed from Bangkok to the rest of the country
 - ▶ Used data from 1983-1997
- ▶ This paper extends wavelets to the provinces of 8 countries in Southeast Asia and incorporates weather information
 - ▶ Using data from 1993-2010

Slide with Bullets

- ▶ Bullet 1
- ▶ Bullet 2
- ▶ Bullet 3

Slide with R Output

```
summary(cars)
```

##	speed	dist
##	Min. : 4.0	Min. : 2.00
##	1st Qu.:12.0	1st Qu.: 26.00
##	Median :15.0	Median : 36.00
##	Mean :15.4	Mean : 42.98
##	3rd Qu.:19.0	3rd Qu.: 56.00
##	Max. :25.0	Max. :120.00

Slide with Plot

