Extreme weather is changing Europe's tourism and the travel industry isn't ready

Hotter south Travel to norther

RUSINESS

Climate Change Is Only Beginning to Mess Up Your Holidays

Analysis by Lara Williams | Bloomberg
July 19, 2023 at 12:43 a.m. EDT

Hotter southern Europe? Travel to northern Europe instead

How does this affect Asian cities such as Singapore?

Source: The Washington Post

Climate change is set to make the tourist-friendly weather in some places unrecognisable. PHOTO: AFP

Source: The Straits Times

Why do we want to know how Singapore's tourism is affected by the climate?

"Tourism contributes 4% of Singapore's GDP."
- Singapore Tourism Board

Singapore beats major cities Tokyo and Hong Kong in new city ranking





Source: Travel Daily Media

Expenditure by international inbound visitors:

\$\$13.8 billion to \$\$14.3 billion in 2022

- The Business Times

These Are The Top 5 Cities To Visit In Asia According To New Survey



- 8. Luang Prabang, Laos 89
- 9. Siem Reap, Cambodia 89
- 10. Singapore 90
- 11. Osaka, Japan 88
- 12. Jaipur, India 88
- 13. Hoi An, Vietnam 88
- 14. Ho Chi Minh City, Vietnam 88
- 15: Seoul, South Korea 87

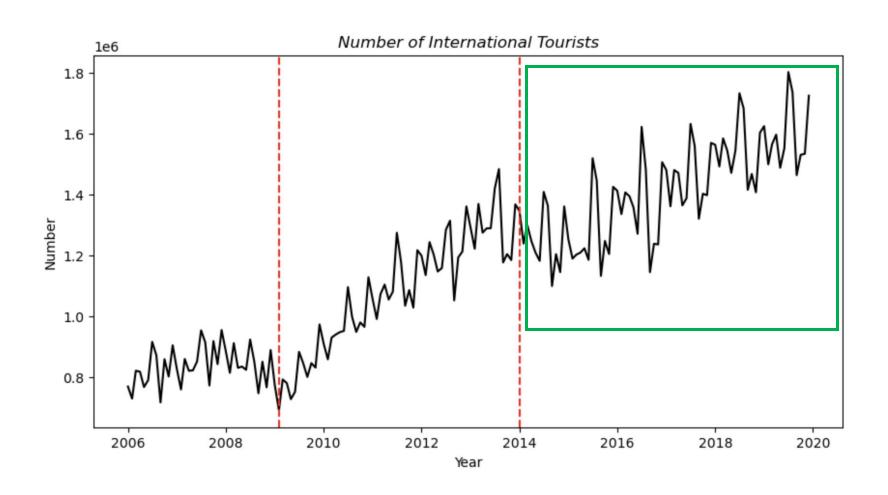
Source: Travel Off Path

Does the change in Singapore climate influence the number of tourists visiting the country?

Observe trends:

- Number of inbound tourists
- Amount of rainfall
- Maximum surface temperature
- Relative humidity level

General tourists trends in the past years



- Overall increasing trend
- 3 segments:
 - 2006 to 2009
 - 2009 to 2014
 - 2014 to 2020

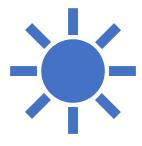
Understanding Singapore climate



Source: Meteorological **Service Singapore**



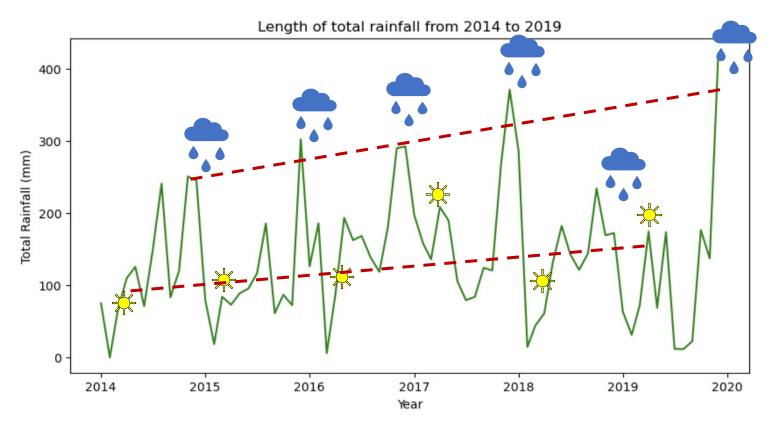
Monsoon seasons:
November to January &
June to September



Dry seasons: February to **early May**

Climate trend – length of total rainfall



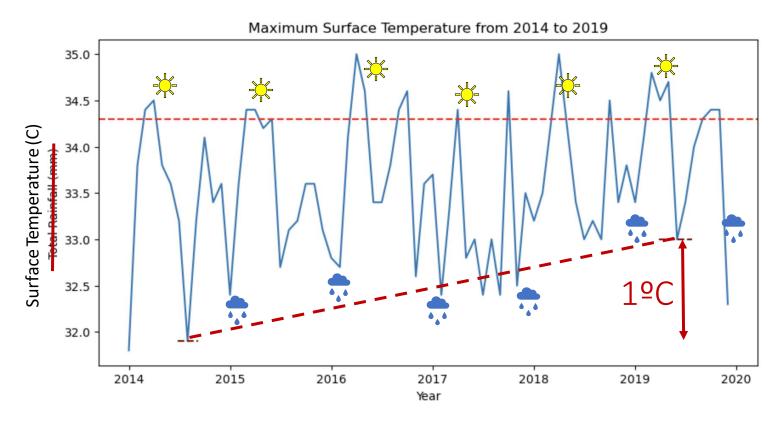


During wet seasons, the total rainfall increases over the years.

During dry seasons, the total rainfall increases gradually.

Climate trend – maximum surface temp



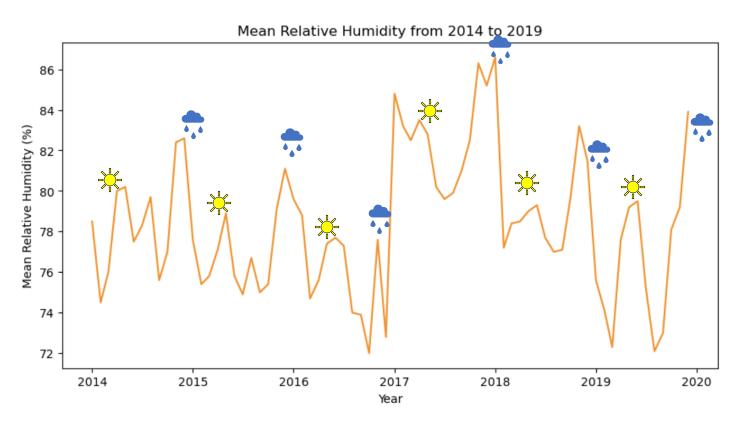


During dry seasons, the maximum surface temperature is ≥ 34.3°C

During wet seasons, the maximum surface temperature is increasing over the years.

Climate trend – mean relative humidity

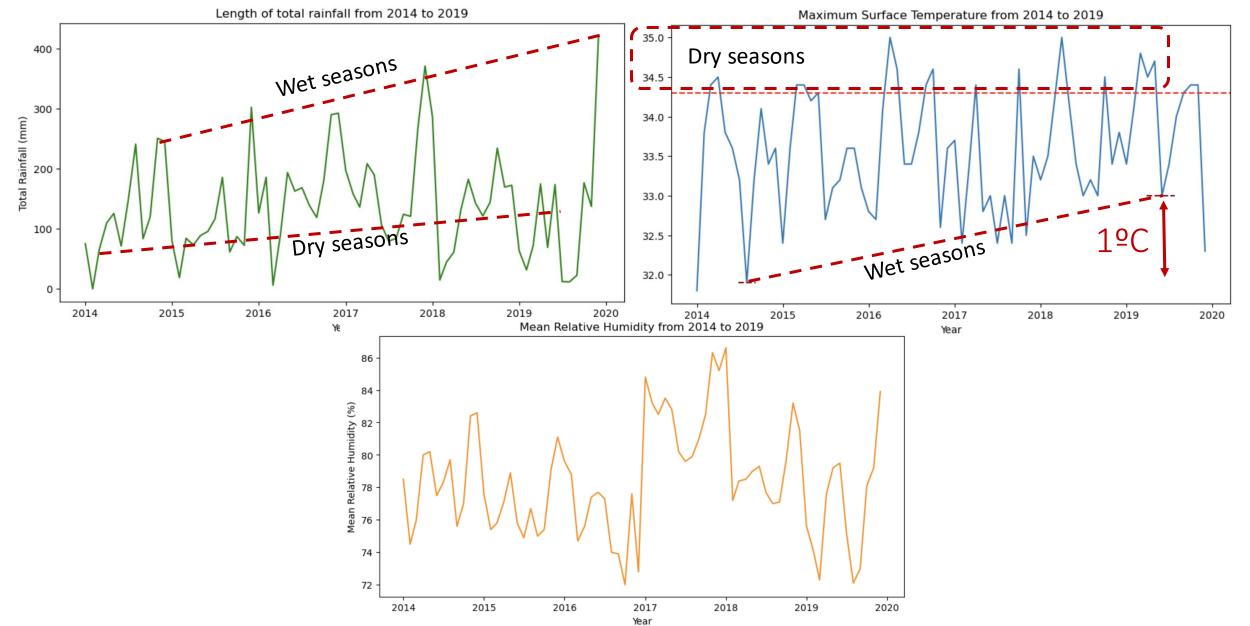




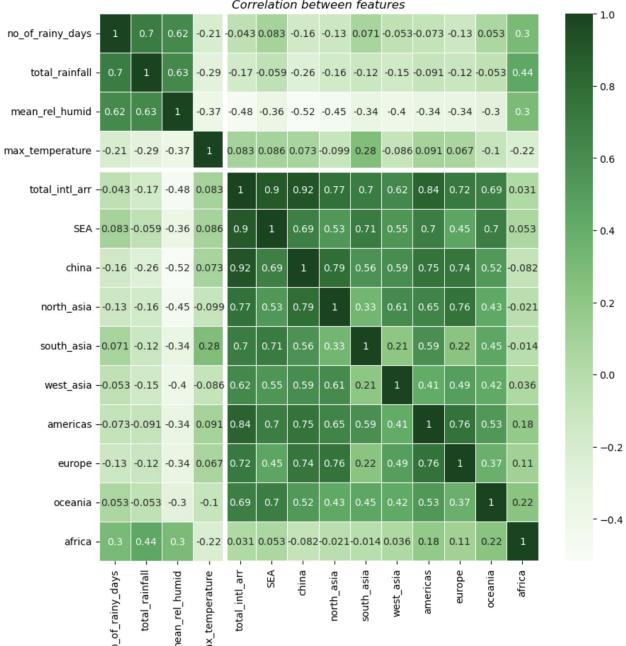
How sticky does your skin feel when you are outdoors?

Humidity changes are more erratic after 2017.

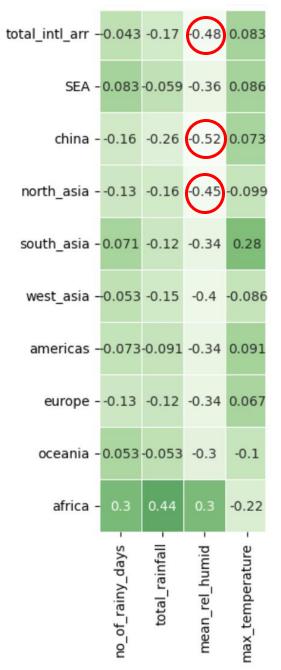
Climate trends in 2014 till 2019

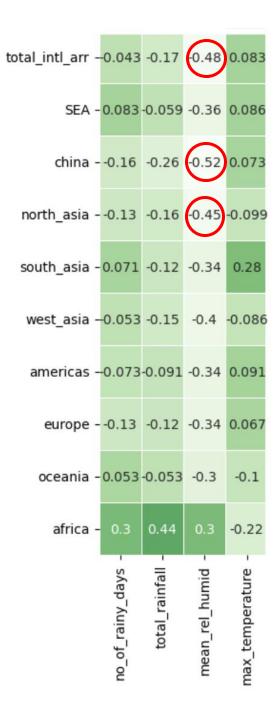


Correlations between the climate and number of tourists



Correlations between the climate and number of tourists



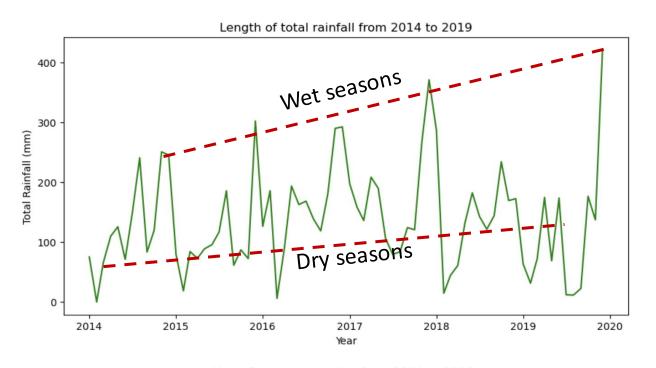


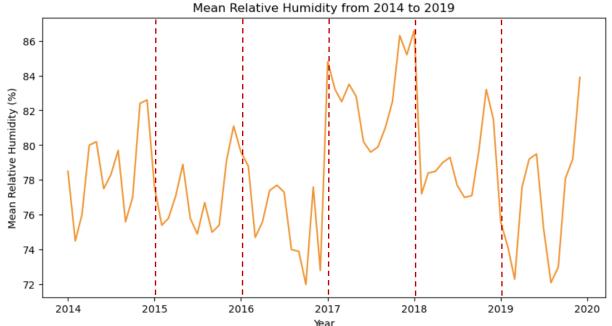
Humidity le. The wetter it feels outside or the more sticky our skin feels

Number of International tourists

Number of tourists from China

Number of tourists from North Asia





Does the change in Singapore climate influence the number of tourists visiting the country?

Yes, to a small extent.

- Tourists are generally unaffected by the rain and heat.
- Prefer dryer seasons with low relative humidity level, between June to Aug.

