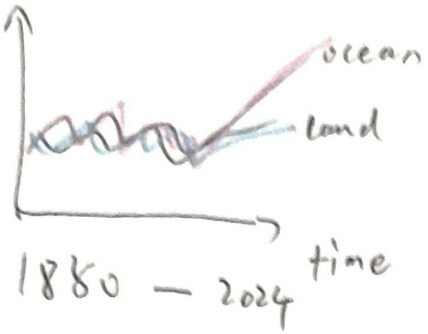
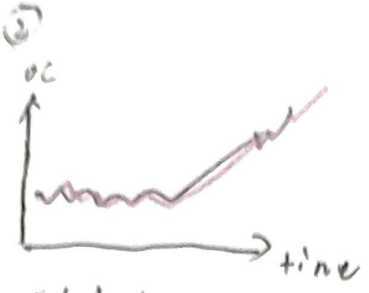
① IDEAS

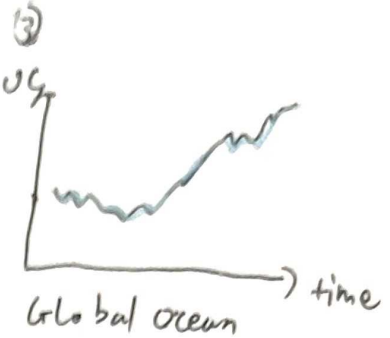


1880 — 2024

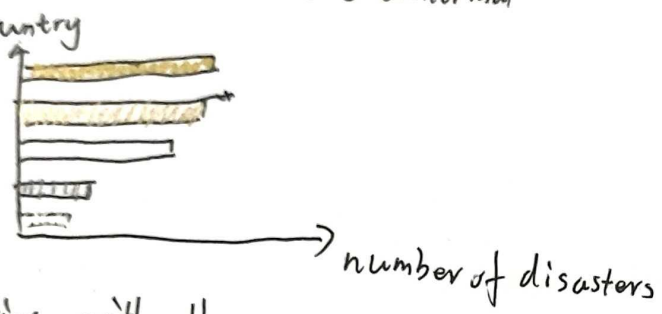
Global land and sea temperatures are abnormal

② 

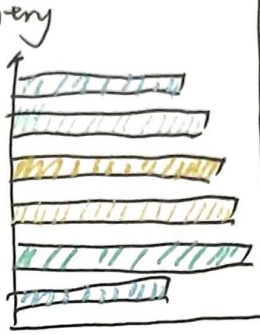
Global land temperature Annual

③ 

Global ocean temperature Annual

④ 

countries with the most natural disasters in 2024.

⑤a. 

Title: How Global Warming Intensifies Malaysia's Climate Risks
Author: ZHU YACI

⑤b.

Risk index for natural disasters in the ~~Asia~~ Asia-Pacific region as of 2025, by country.

⑥. map for Climate-Driven INFORM Risk
this for respond to current situation.

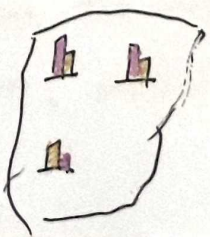
FILTER
① or ③②
④
⑤ just Asia-Pacific
⑥ for global
⑤ be map is better

MAP use ⑤b or ⑥
if use ⑥ then use ⑤a.

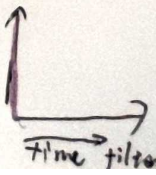
CATEGORIZE

Graphs
Bar-on-Map
Map
> Focus detail

line chart overall trend. in time →



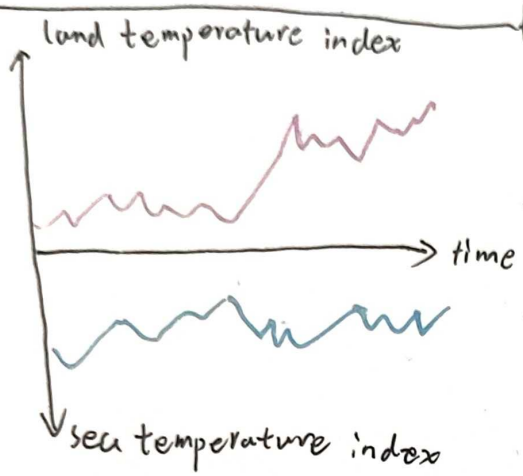
or



SHEET 2

Title: ~~How~~ Temperature-related factors: Southeast Asia risk index and trends.

Date: 20/10/2025



Layout

Focus

Line charts focus on comparing land and sea climate anomalies within the same year. maps use block diagrams to display the risk index of natural disasters caused by climate in the Asia-Pacific region.

The data on the chart has been changed to reflect information risks caused by climate change, presented across ~~by climate etc~~ 3 dimensions: disaster exposure, vulnerability, and inadequate response capabilities. This is directly represented by varying shades of color.

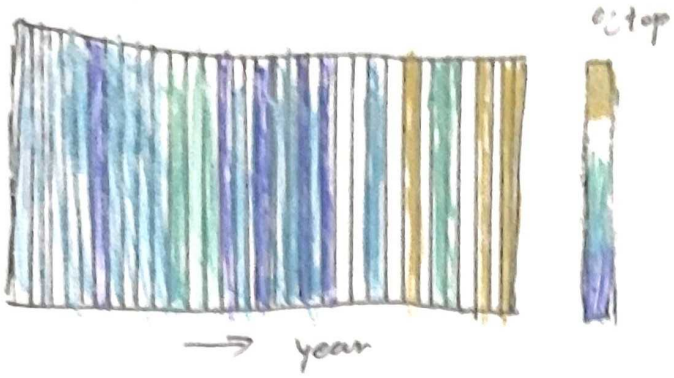
Operation

A vertical line is added to the line chart. when the mouse hovers over a point, the vertical line intersects two lines simultaneously, displaying weather anomalies for the oceans and continents in the same year. The map features direct visual and mouse-hover interaction, with varying shades of color.

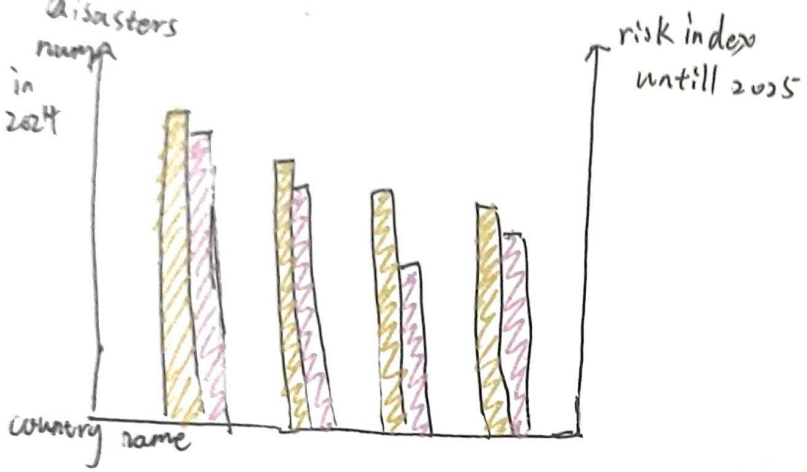
Discussion

This type of line graph creates the visual impression that ocean temperature changes are negative. The map contains too little information, which is somewhat wasteful.

Layout



observed striped chart of the average surface temperature



disastters & happend times with risk index.

Operation

The first image's interactive feature is mouse hover; when the user moves the mouse over any stripe, the average surface temperature and year are displayed. There aren't many interactive methods; it relies more on direct visual feedback. The second image provides a clearer comparison of the frequency and index for the same country.

Discussion

The drawbacks are that the color changes are not absolutely precise, making date comparison difficult; it is not user-friendly for those with poor color vision, and the design is not inclusive enough. The bar chart style is also too simple.

FOCUS

① The climate bar chart is a special type of time-series bar chart that uses colored bars instead of data curves to display long-term trends. The trend of climate warming can be seen at a glance without the need for textual explanations or numerical axes. Serong visual effect.

It without seeming complicated for data from over a hundred.

② It can simultaneously compare the number of disasters that occurred in the previous year with the risk index to date.

Tittle: Find several suitable Charts to represent

Auther: Zhu Yaci

SHEET: 3

Date: 21/10/2025

LAYOUT

disaster times in 2024 (last year)

disaster Risk index until 2025

Operation

Add zoom and drag functionality; display data for the country in the mouse-controlled area when hovering; click on a bar area to trigger a filter to view only a specific type of date, avoiding data overload on the page.

Discussion

For regions with densely packed national geography, the data volume can be too large, and bar charts may overlap. While height charts are more intuitive, they are less suitable for comparison ~~across~~ across different countries.

Focus

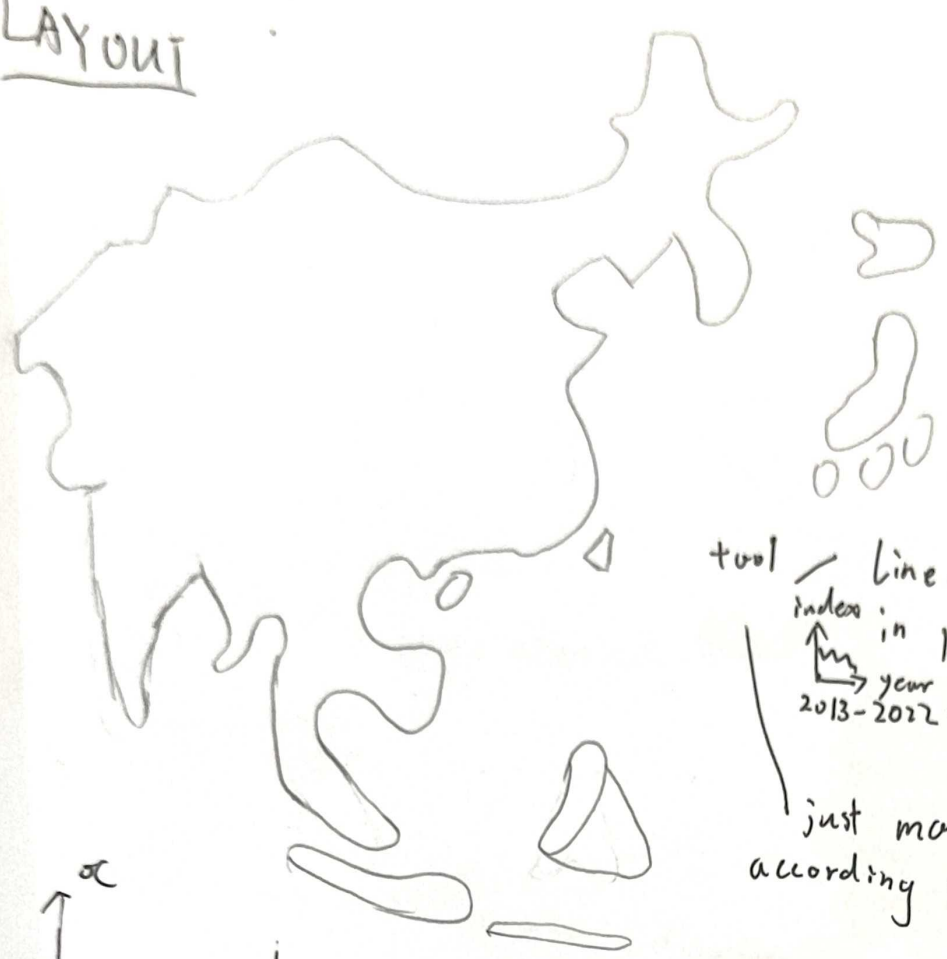
This uses bar maps, with bars representing two numerical variables on each country's map, as indicated by the symbols on the map. Because climate risk is influenced by geographical conditions in addition to temperature, this approach allows for the identification of the causes of related risks by combining geographical understanding with an understanding of geospatial factors. It provides richer information than a typical heat map.

Tittle: From Heat to Hazard: How Global Warming Intensifies Malaysia's Climate Risks

Auther: Zhu Yaci

Date: 22/10/2025

LAYOUT



Risk index

Tittle :

Is the situation regarding natural disasters in Malaysia changing with global warming? —

APAC Disaster Index and Vulnerability and Climate Trends

Auther : Zhu Yao

Sheet : 5

Date : 25/12/2025

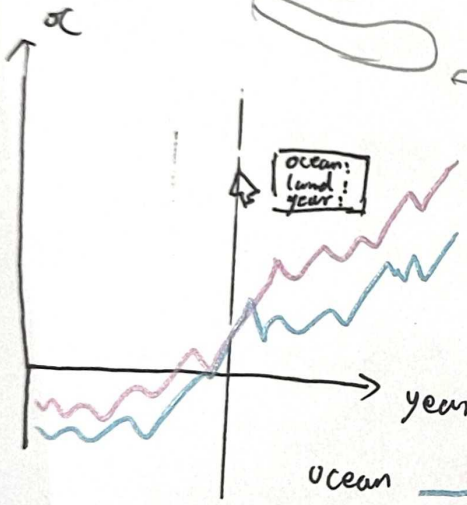
tool — Line chart

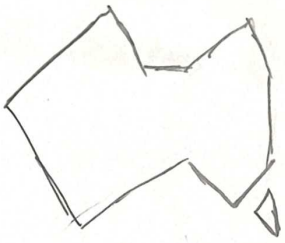
index : in map

year

2013-2022 each country

just mark according regalite





block coloring according Risk index

Auxiliary line

ocean

land

year min

year max

Risk index is the data until Aug, 2025.

new and practical

story

question - The impacts of climate are influenced by geographical factors, temperature factors, and national power.

Describe the purpose of the chart in sequence and how to answer the question.

Final conclusion and found.

---

footer webpage.

JSON use 1:50

1:10 is too many detail and siz to big.

just focus in APAC

Can conect with Risk index .csv. to filter region.

Line charts need mouse snapping and auxiliary lines added. also filter

Effectively helps in viewing details on long-term charts.

JSON selection of admin country or sovereign state. need have ISO_A3.