

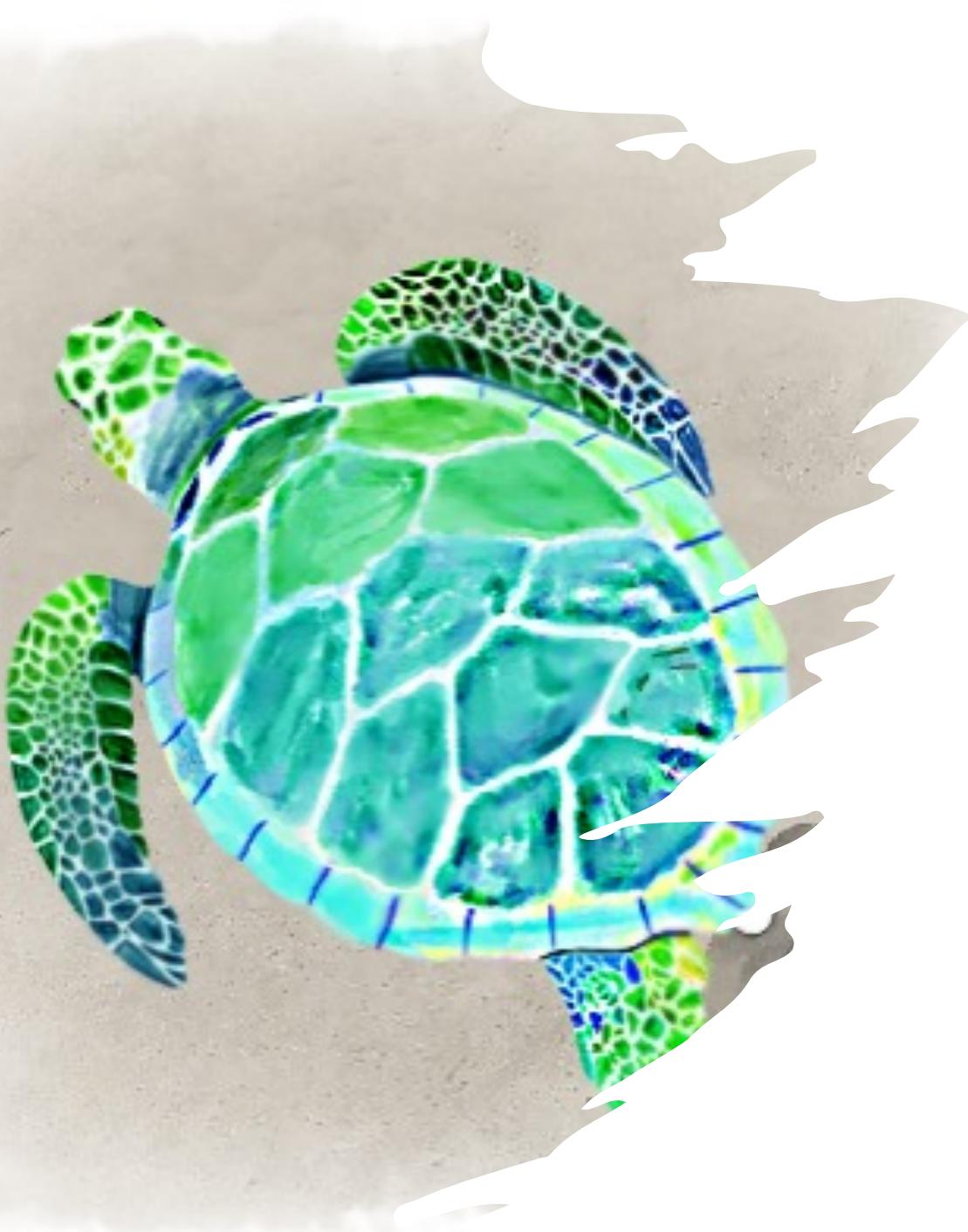
24. WARNING: THINGS ARE HEATING UP!

Poseidon

Chia-Lin, Chen(陳佳琳)

Meng-Chuan, Lee(李孟娟)



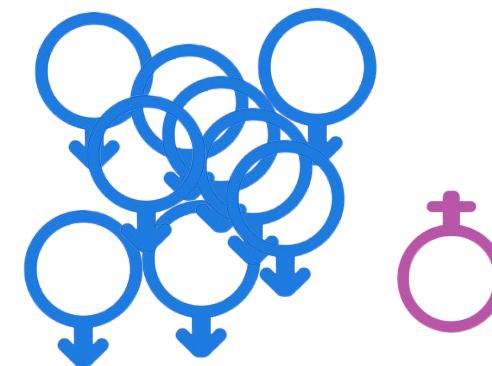


Motivation(1/2)

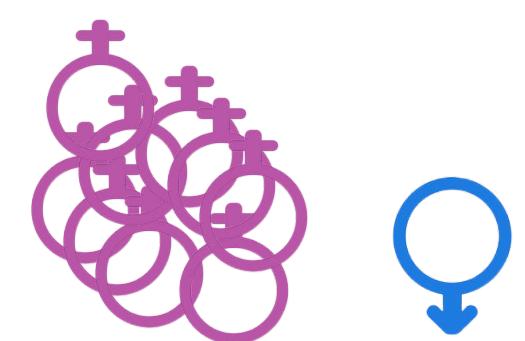
Sea turtle extinct

Hatch Temperature

$27^{\circ}\text{C} \downarrow$

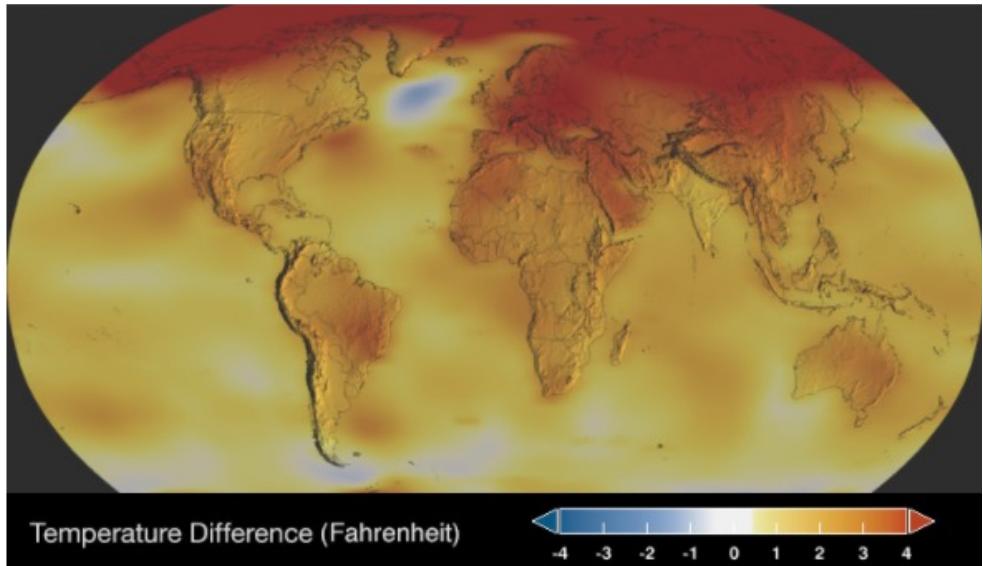
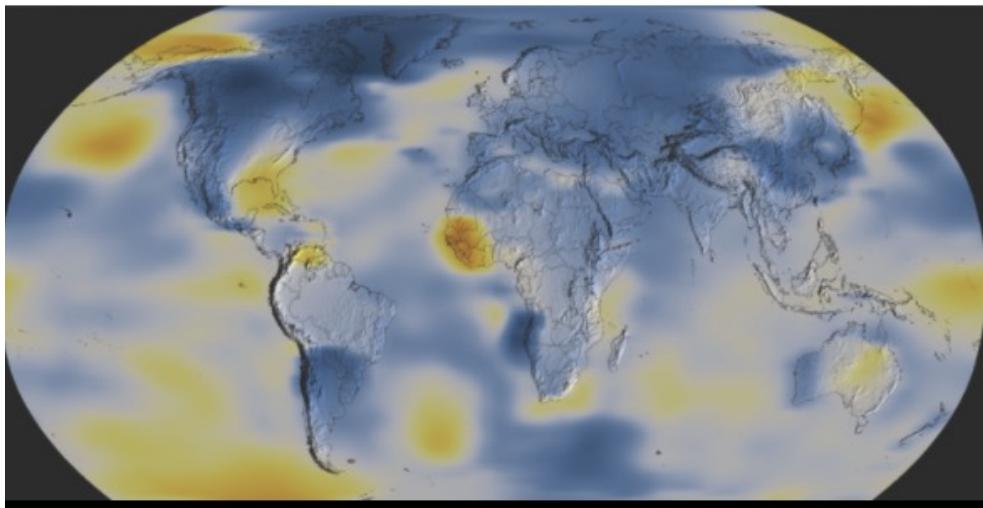


$31^{\circ}\text{C} \uparrow$

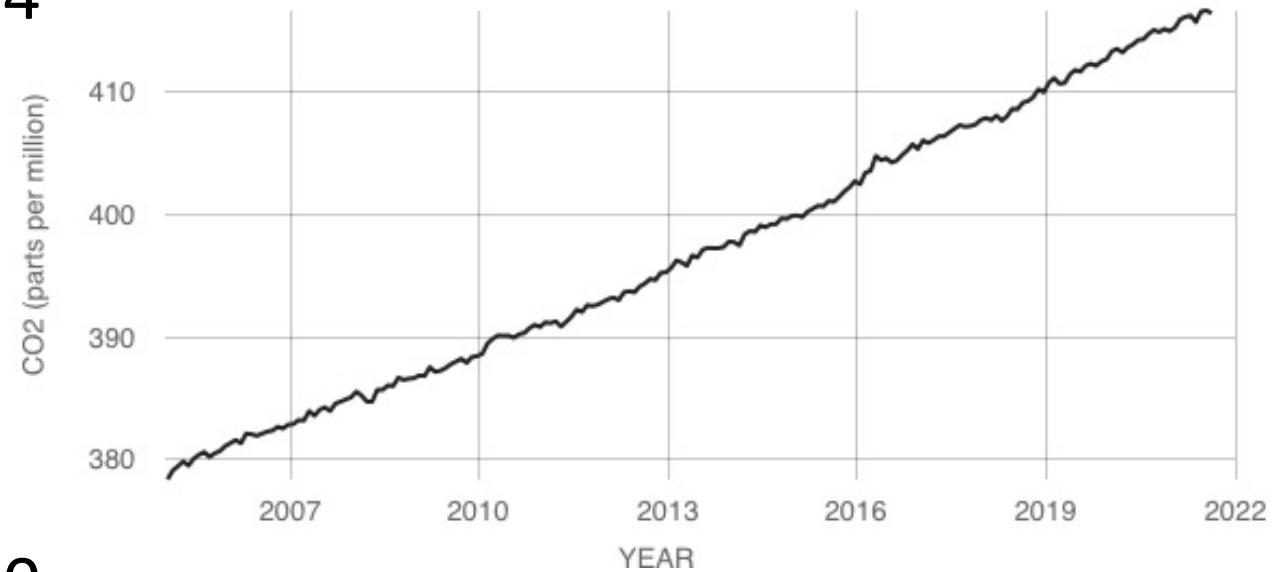


TIME SERIES: 1884 TO 2020

Motivation(2/2) Global Warming



1884

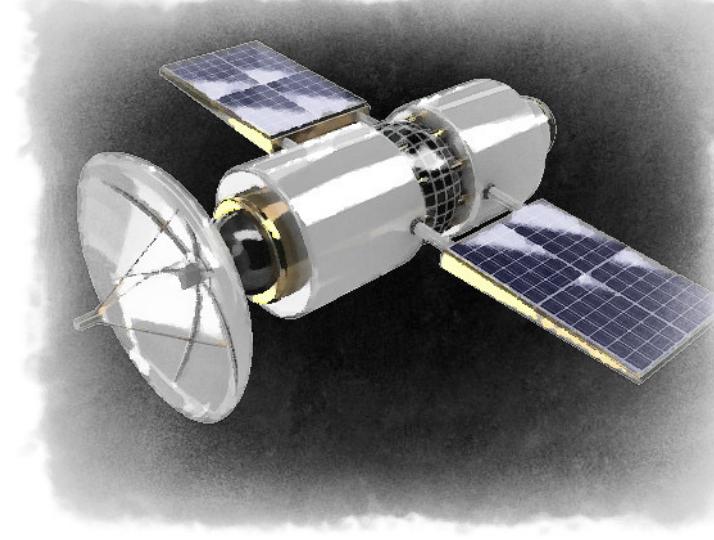


2020

Data source: NASA/GISS

Credit: NASA Scientific Visualization Studio

Solution(1/4) Use Poseidon to **Save whales & Avoid fire forests** CO₂ ↓, slow down global warming



= **1K** trees
= **6.1M** straws
= **580K** plastic bags
= **1.65M** disposable chopsticks



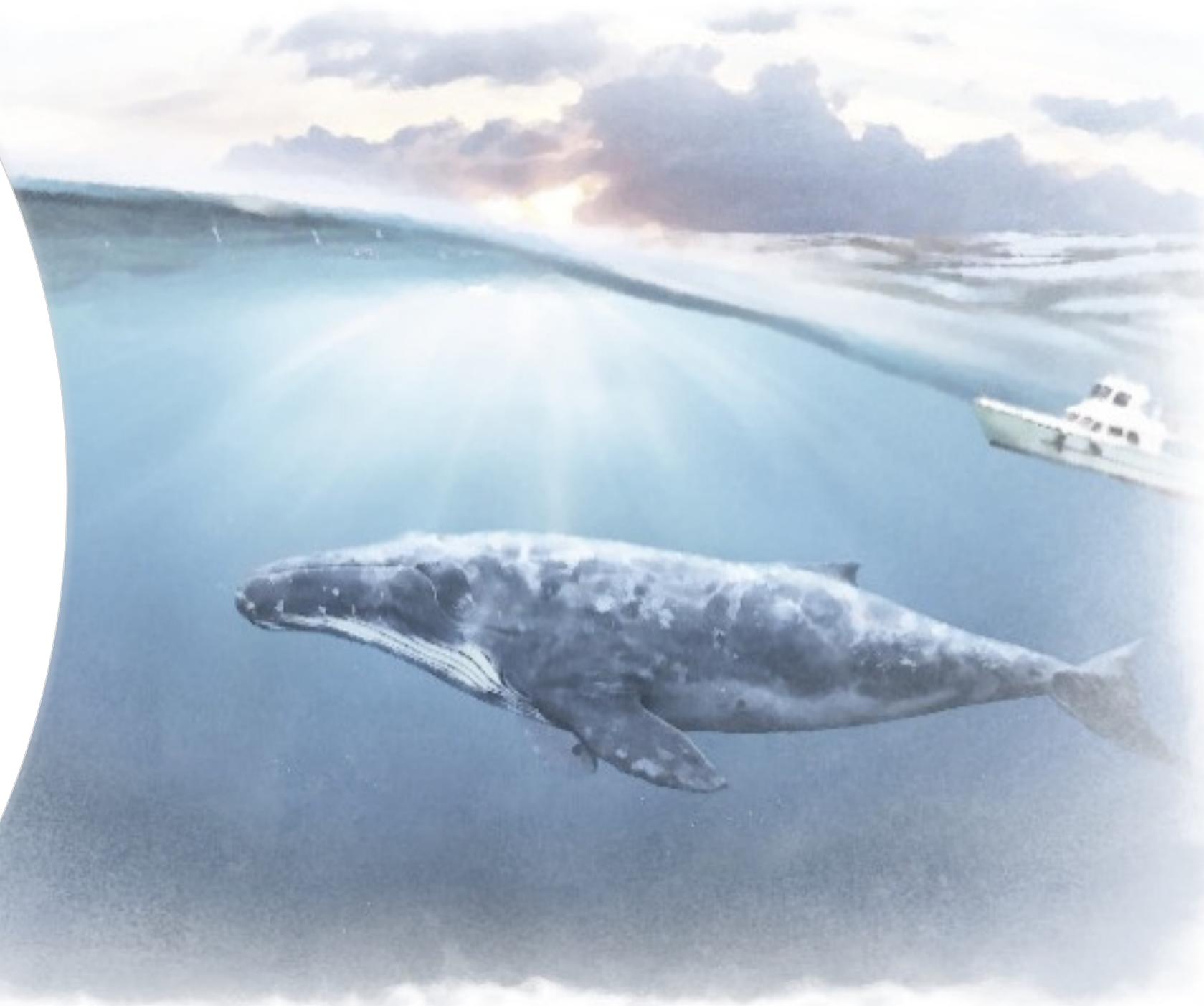
Whales eat fishes.
A whale can reduce **33** tons CO₂ in its life.

Wildfires burn, produce **150M~900M** tons of carbon yearly.

Solution(2/4) How to save whales?

With NASA Satellites!

1. Notice ships when coming to whales area.
2. Navigating ferry routes.



Solution(3/4) How to save forests?

With NASA Satellites!

1. Set Fire Safety Reservoir with Topographic map.
2. Alarm when very high temperature and send mail notification.



Solution(4/4)

With Poseidon, we can save

- More than **30K** whales and 42M acres forests yearly
=More than **211M** tons carbon

AND WE HELP SEA TURTLES!!!

- **42M** acres in Australia at 2019.
= **210M** tons carbons
- California States **10K** acres in 2020 August.
= **50K** tons carbons

Our tool--Poseidon(1/3)

A screenshot of a web browser window titled "localhost". The address bar shows "localhost". The browser interface includes standard navigation buttons (back, forward, search, etc.) and a tab bar with "Home", "Forests", "Whales", and "About Us". The "About Us" tab is highlighted with a green background.

Poseidon

Poseidon, save the world!

supported by NASA Hackathon 2021 at Taipei

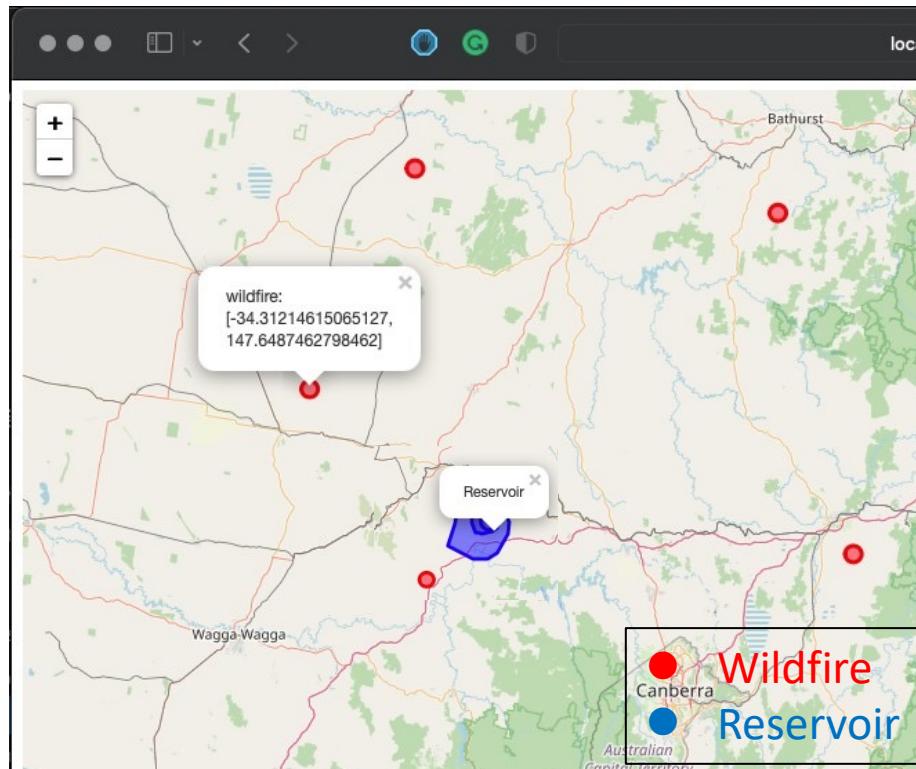


Chia-Lin Chen(陳佳琳), Meng-Chuan, Lee(李孟娟)

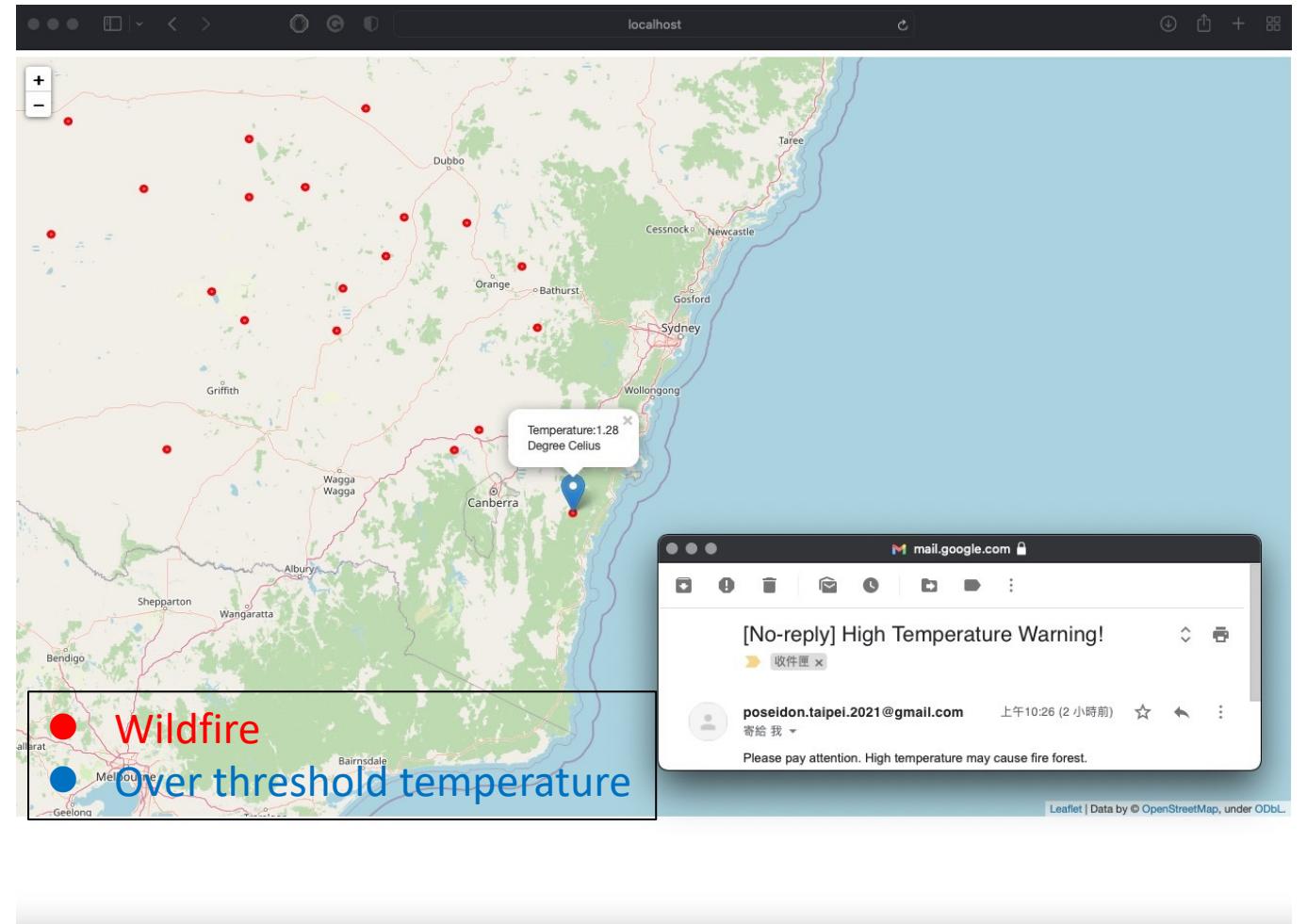
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Homepage

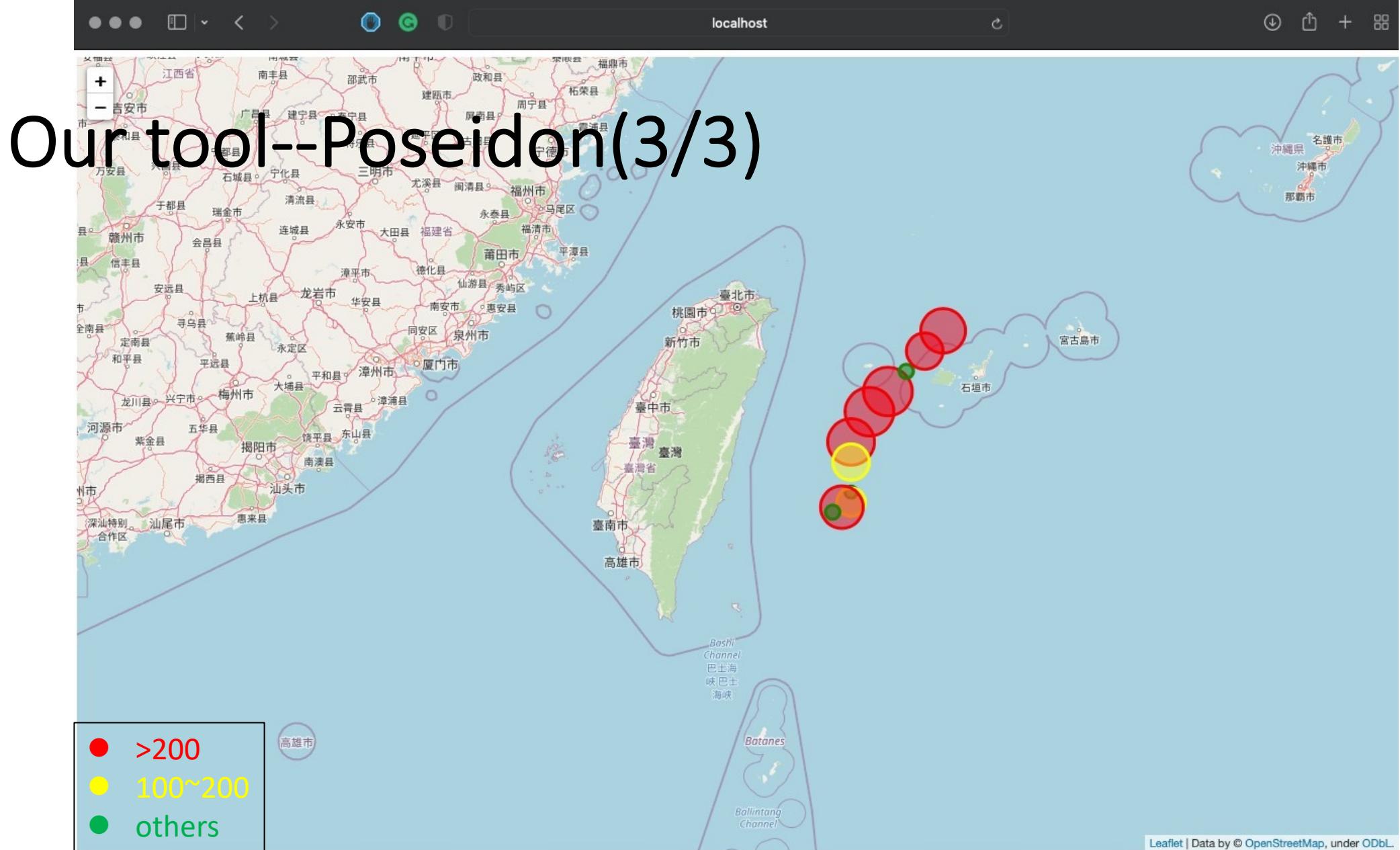
Our tool--Poseidon(2/3)



Reservoir



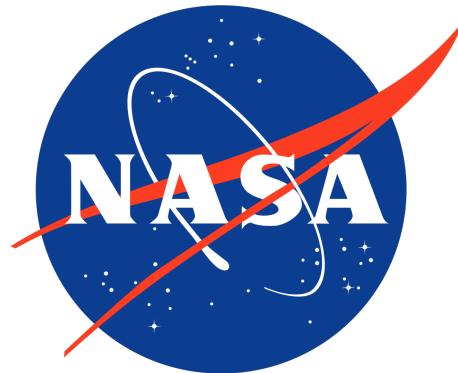
High Temperature, send notification mail.



Leaflet | Data by © OpenStreetMap, under ODbL

Reference

- [Source]
 - [NASA temperature & carbon]<https://climate.nasa.gov/vital-signs/carbon-dioxide/>
 - [Wildfires carbon]<https://www.futuredirections.org.au/publication/wildfires-greenhouse-gas-emissions-and-climate-change/>
- [Carbon]
 - [straw]環保署-台灣產品碳足跡資訊網
 - [disposable chopsticks]中華商務-綠色快訊 2010 年 4 月
 - [plastic bags]台達電子文教基金會-低碳生活部落主編
- [Dataset]
 - NASA xxx



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