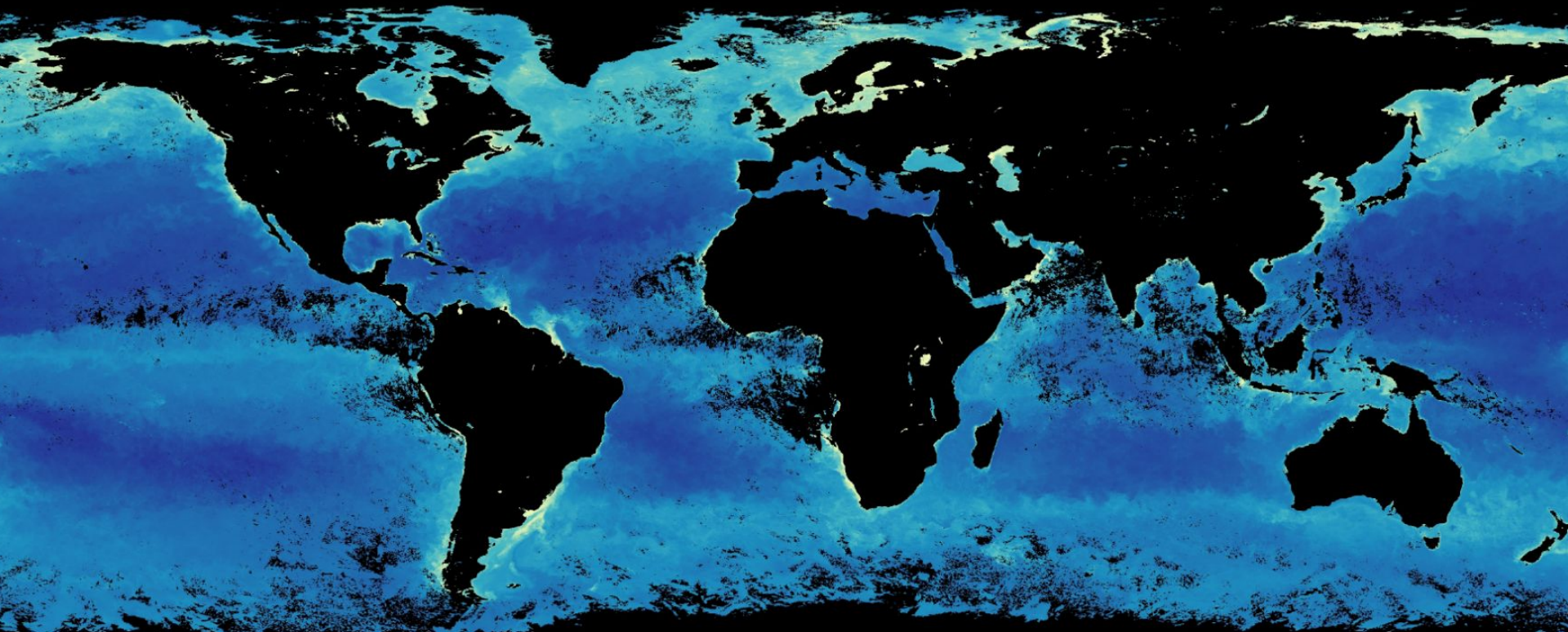
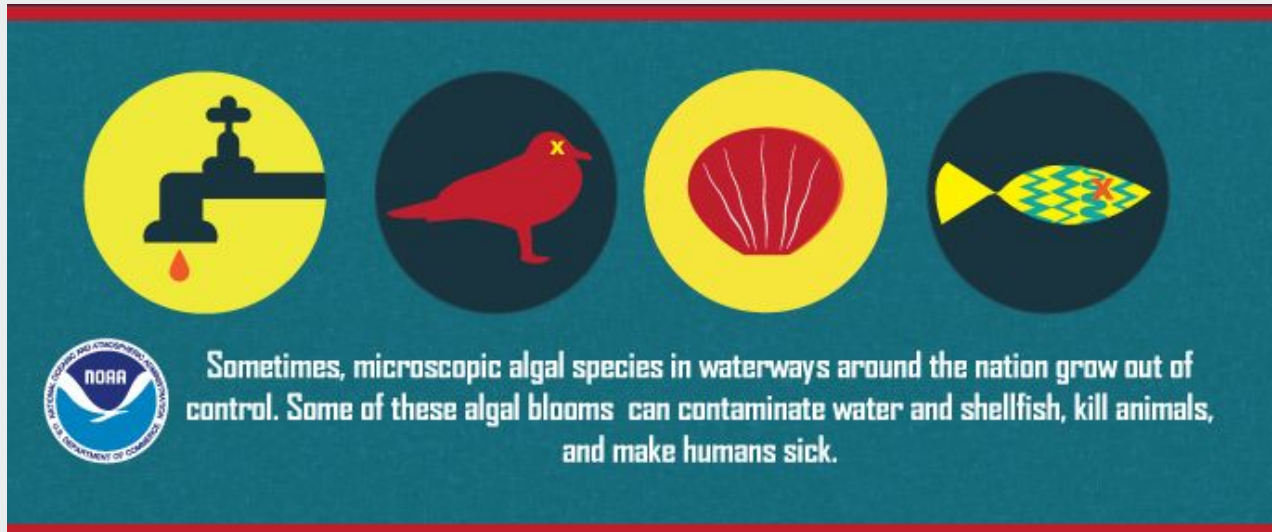


To Bloom or Not to Bloom



Introduction



- The fishing industry loses as much as **\$34 million a year** in USA.
- Cost **\$37 to \$47 million** in lost tourism revenue over two years In Ohio.
- Resulted in **\$0.5 to \$4 million** in hospital emergency department costs in Sarasota County.



Causes:

- Presence of nutrients (such as phosphorus, nitrogen, and carbon).
- Extreme events, such as floods, hurricanes, and droughts.
- Warmer than usual water temperatures.
- Sluggish water circulation.
- Wind and water currents.



Data measure



AEROSOL OPTICAL THICKNESS
AEROSOL PARTICLE RADIUS
BATHYMETRY
CHLOROPHYLL
CLOUD FRACTION
CLOUD PARTICLE RADIUS
CLOUD OPTICAL THICKNESS
CLOUD WATER CONTENT
NITROGEN DIOXIDE
SEA SURFACE TEMPERATURE
WATER VAPOR

Nowadays, all this data is misused!

It is possible to predict? **YES**



	NAO	SIM	Total
NAO	165965	3509	169474
SIM	379	5137	5516
Total	166344	8646	174990



Sensibility: **88%**

How spread the information?

- API

Algae

Nossa Missão

Quem Somos

Galeria

Pesquisar

Pesquisar

Localizar

Latitude

-23,4983

Longitude

-46,3347

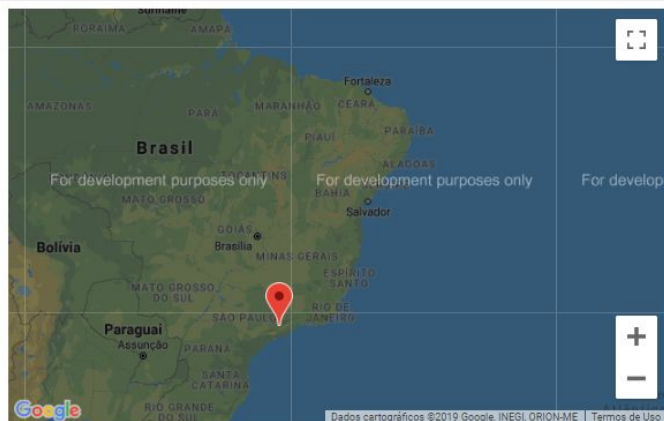
Localizar

Taxa de precisão:

88%

Qualidade da água:

Ruim



Impact

Economic loss

Prevented cost:

\$34mi per year



Social

Public
Health



Environment

System prevent
management



Which Market?



- People living in continental areas
- Fishing Industry
- NGOs and government

Next steps...

- Improve the precision satellite.
- Measure human action.
- Include fresh water sources.





ALGARitmos

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