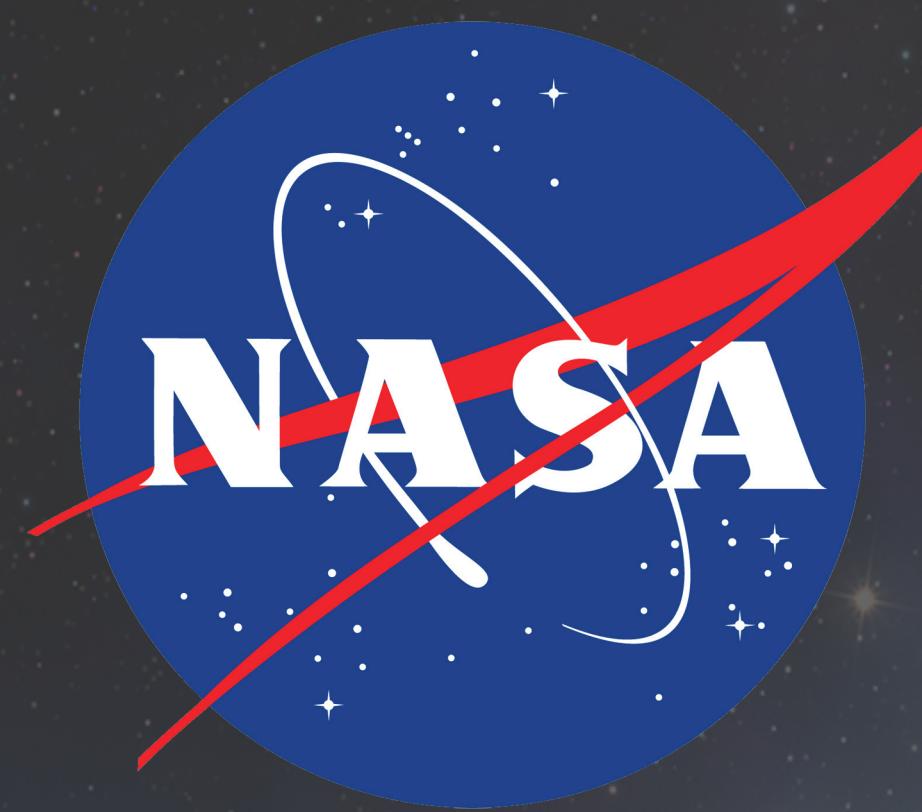


Abstract

Earth's climate has changed throughout history. While these changes may not seem significant to everyday life, over time they have affected how humans conduct certain activities, such as food production. This project uses Web World Wind to visualize the effects that climate change has had on regional agricultural practices. Relying heavily on temperature and hydrological patterns, our application allows users to view current and past climate trends via a timeline. These trends correspond to specific agricultural practices, such as livestock or plant production. The data is visualized on yearly basis, and the user will see the gradual effects that the climate has had on the agriculture industry. This app is designed for students in the late elementary grades (5th-6th), and, as part of an education initiative, will help ensure an increased understanding of Earth's processes to better appreciate the roles and responsibilities in managing our biosphere.

NEXT



Super Awesome Web App!

START

explore Earth learn events

Welcome! I am Earth and I will be the one to show you how you can learn about the importance of my biosphere!



NEXT

That is also me. Humans live in different environments with a variety of biospheres. Some of them are hot, while others can be freezing cold!

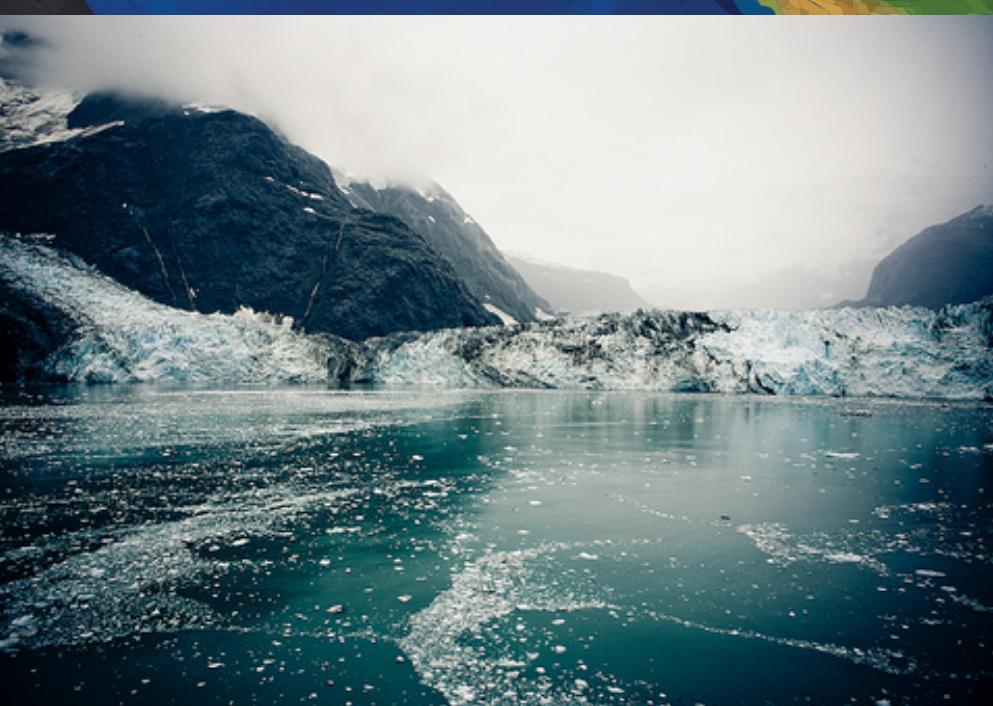


NEXT

From deserts to grassland, and
from tundra to ice formations,
I am beautiful!



NEXT



You can learn more about all of those environments and more using your mouse by rotating and zooming into its various environments.



NEXT



You can learn more about all of those environments and more using your mouse by rotating and zooming into its various environments.



NEXT



You can also use these two options to learn about some awesome historical events and facts about your biosphere!



NEXT

Now enjoy your ride around Earth!



GO!

explore Earth learn events

1865



2017

Zoom level:
100%



explore Earth learn events

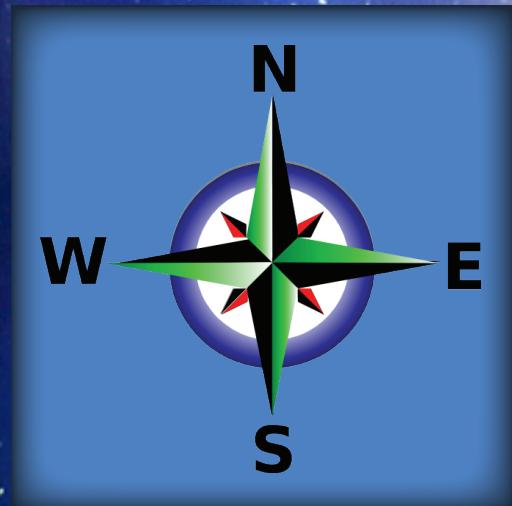
1865



2001

2017

Zoom level:
100%



explore Earth learn events

1865



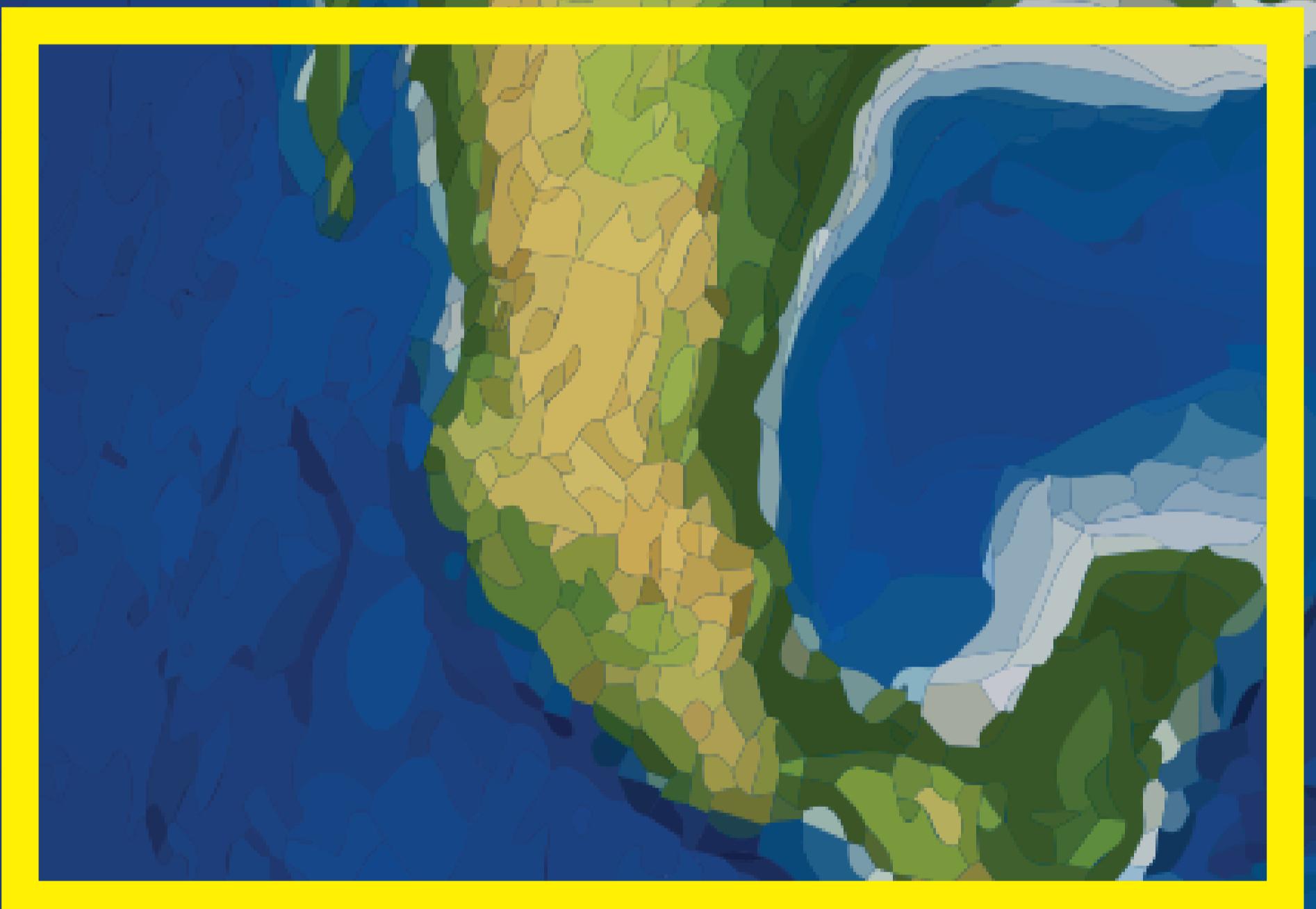
2001

2003

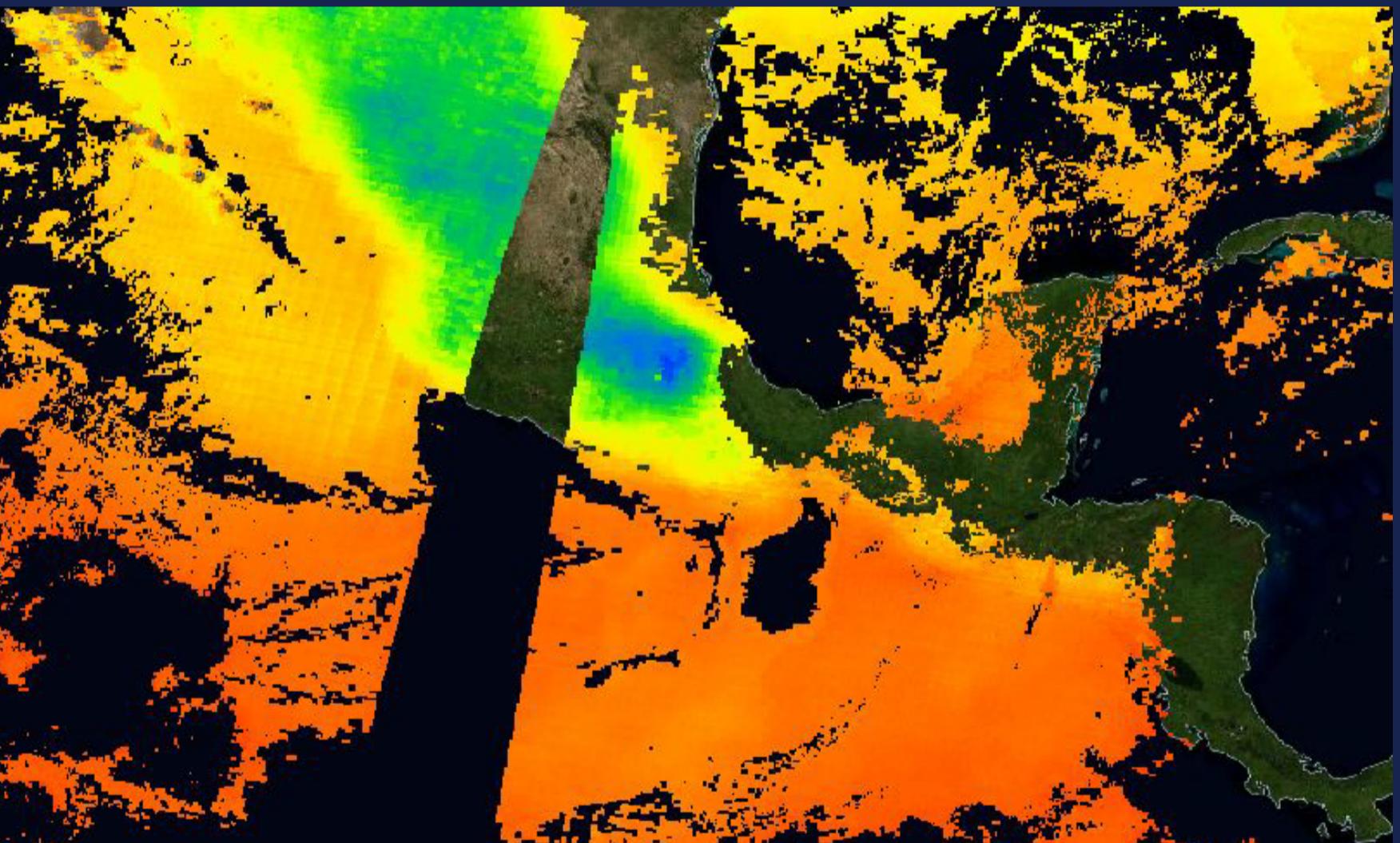
2017

Zoom level:
100%





Mexico 2001-2003
water vapor map in 2003



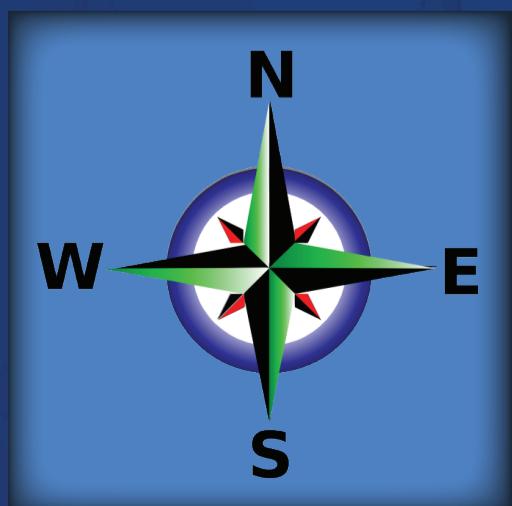
next

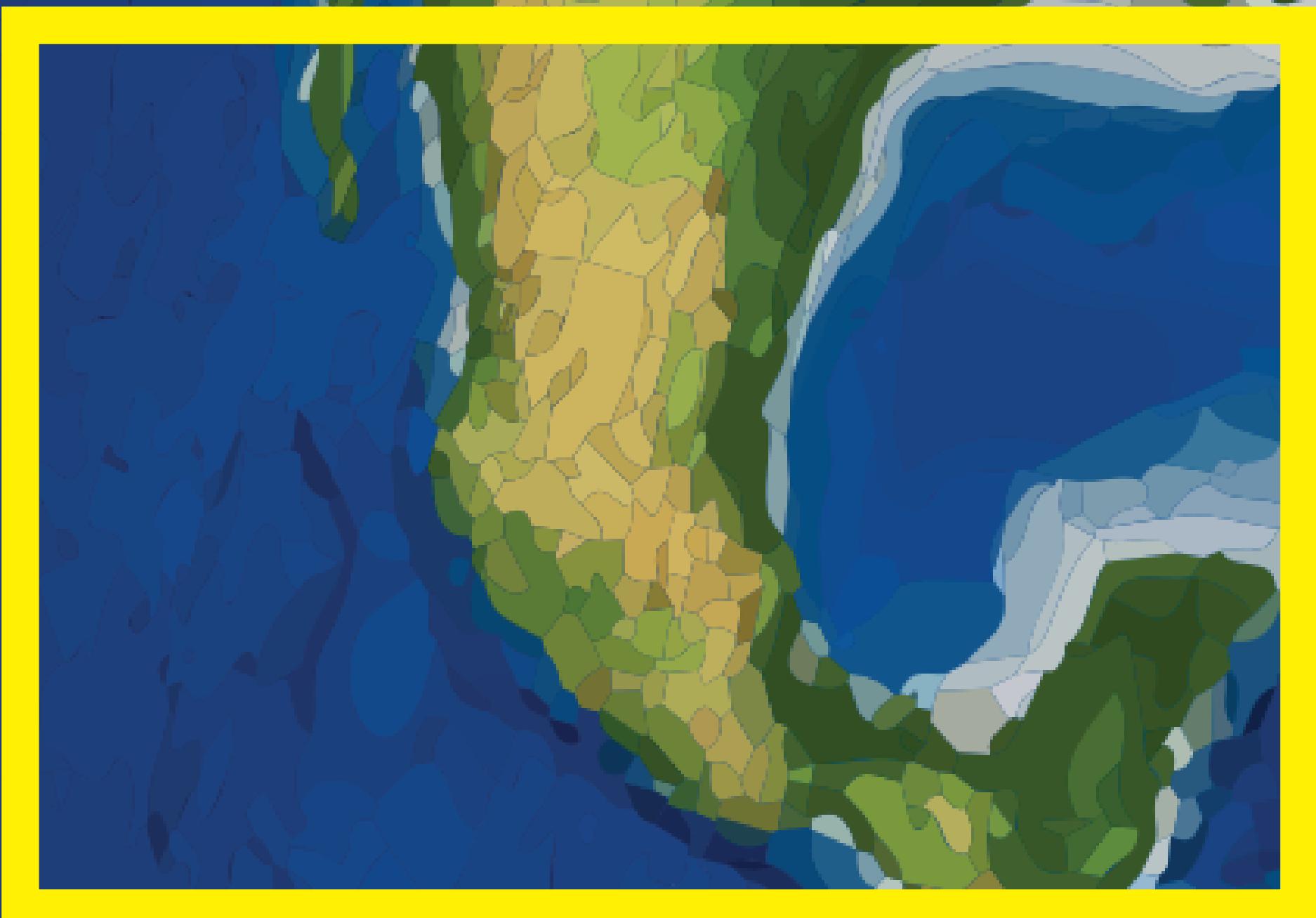
2001

2003

2017

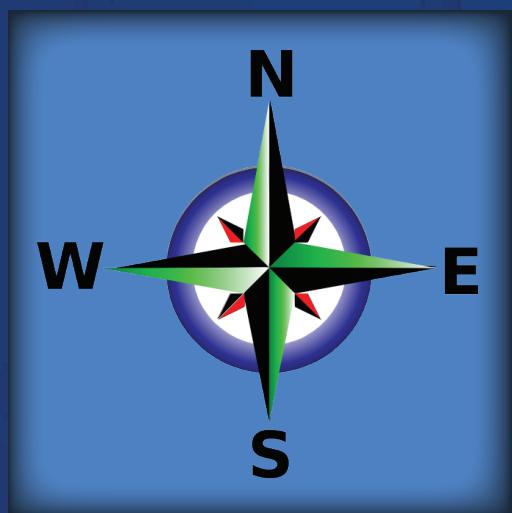
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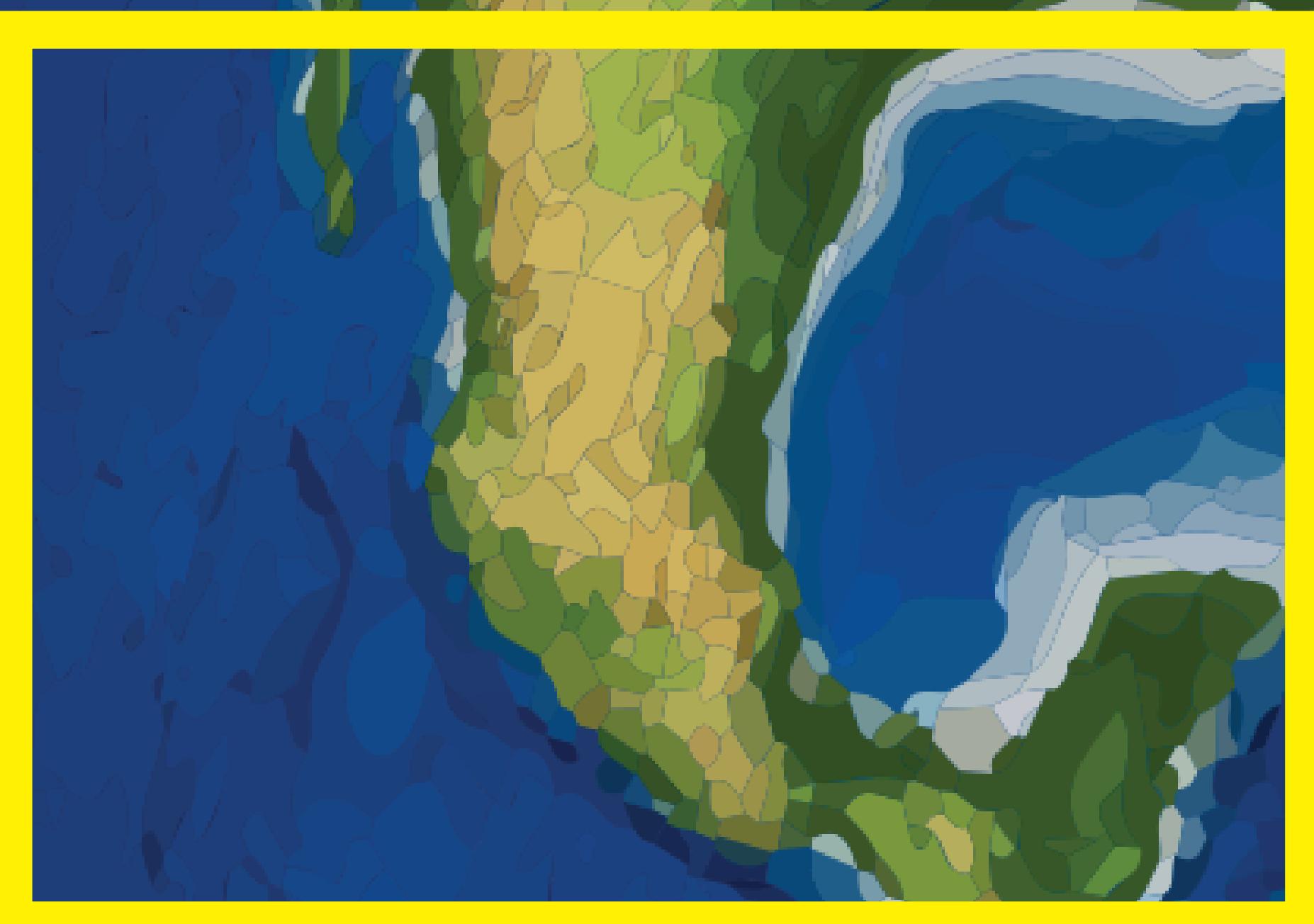




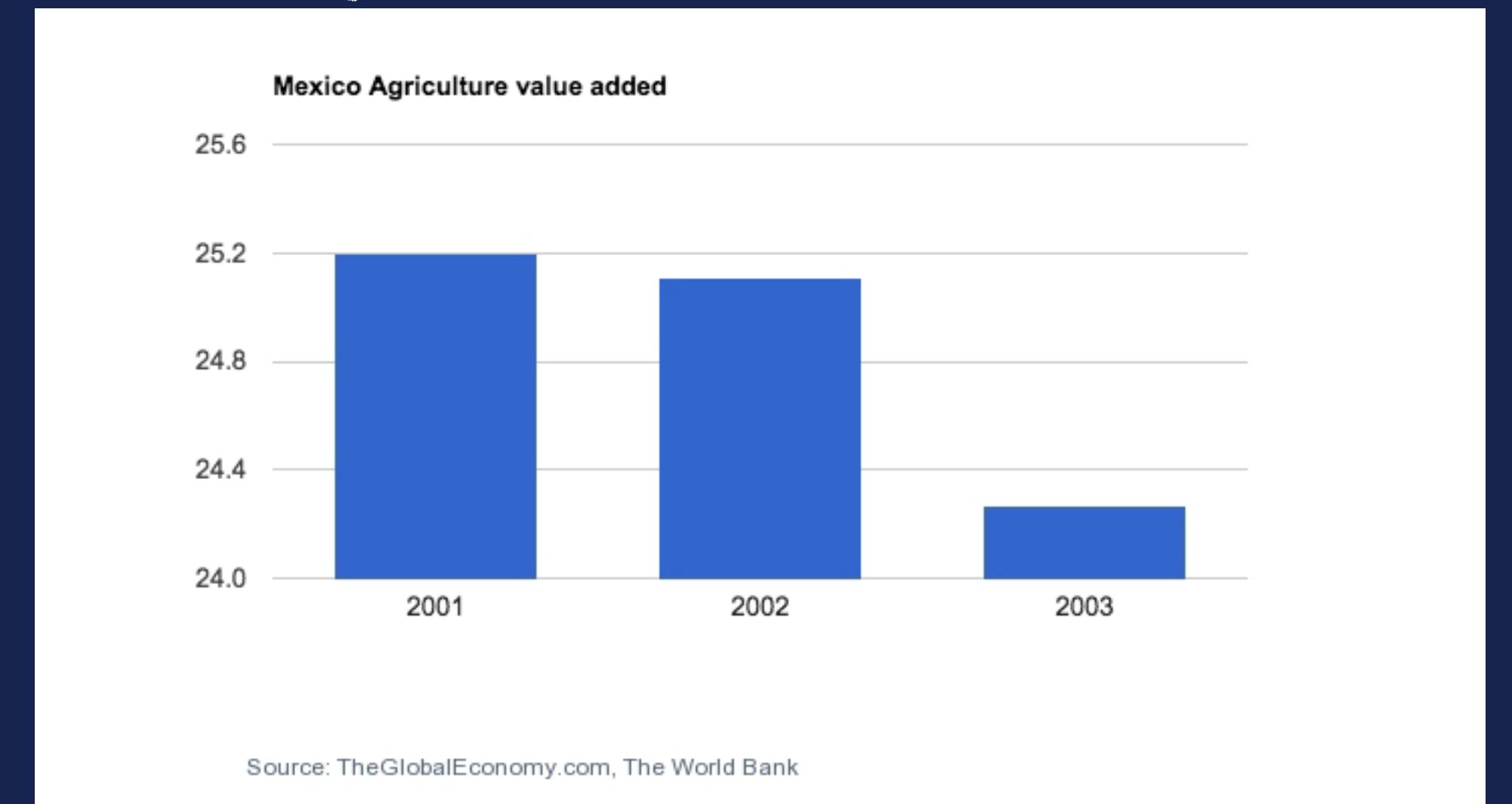
2001
2003
2017

Zoom level:
400%

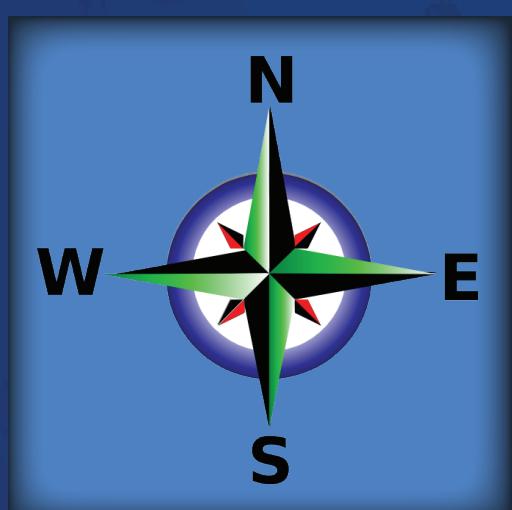




Mexico 2001-2003 Agricultural value added

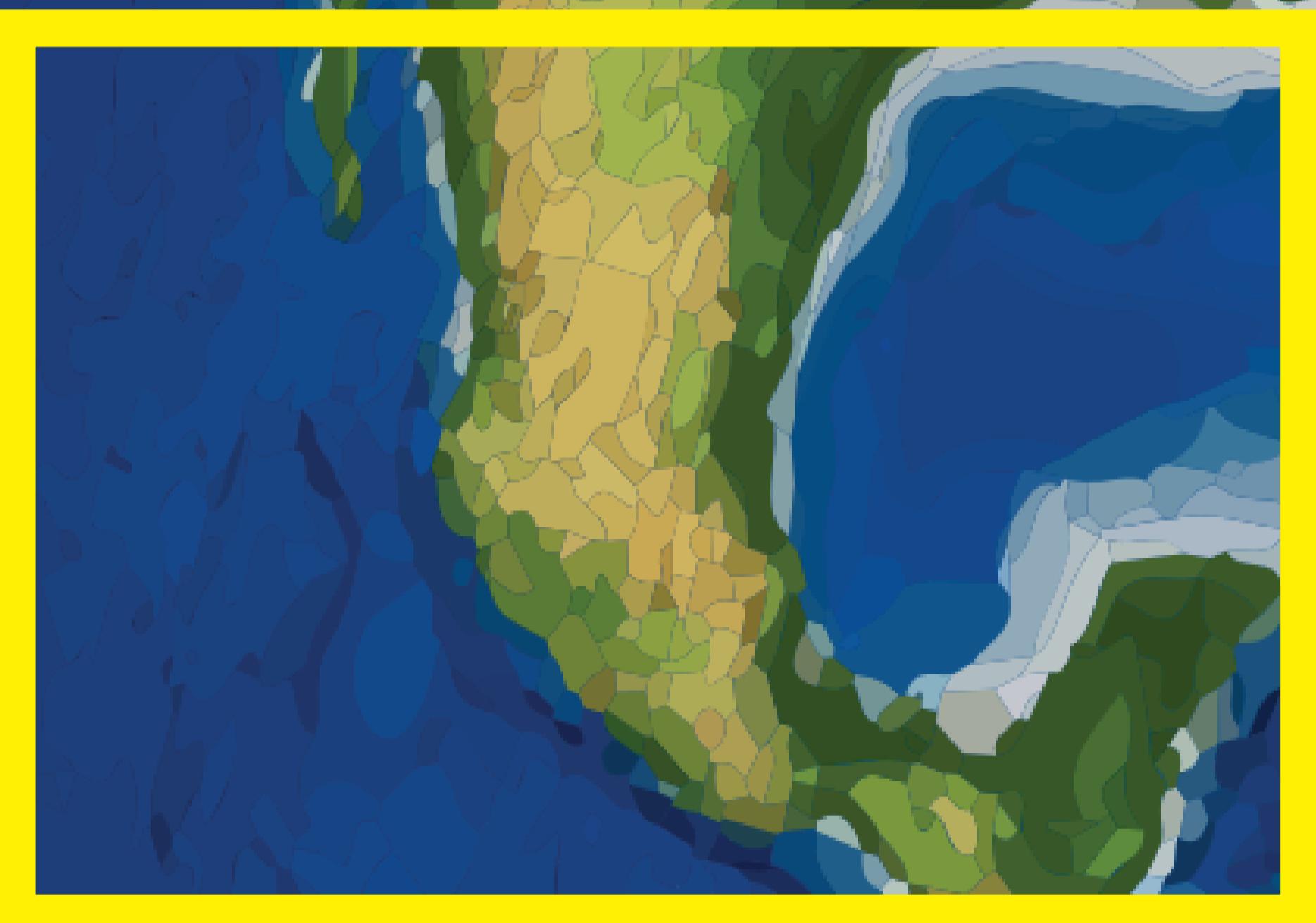


next

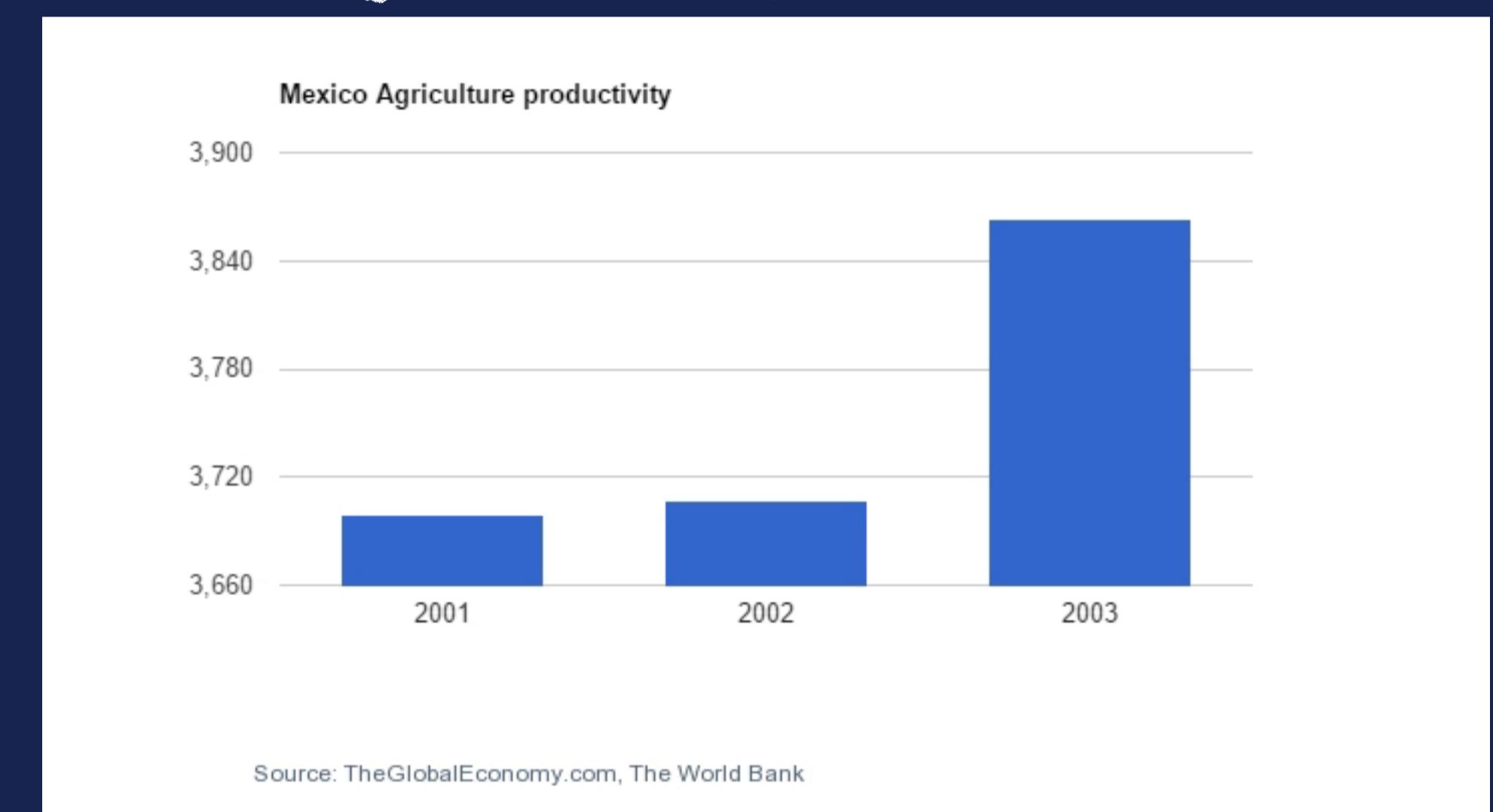


2001
2003
2017

Zoom level:
400%



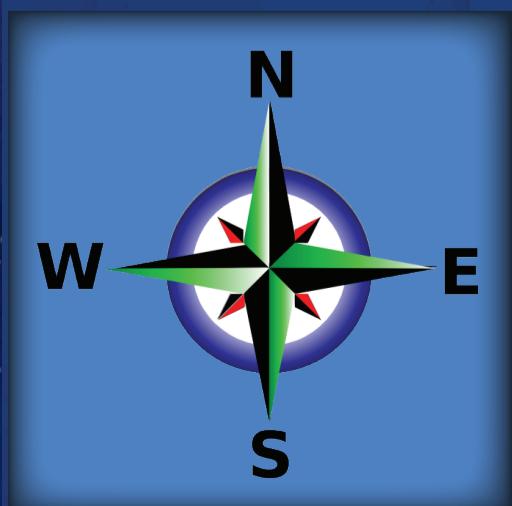
Mexico 2001-2003 agriculture productivity



back

2001
2003
2017

Zoom level:
400%



SUPER COOL
EVENT IN
CALIFORNIA!

cool! cool! cool! cool! cool! cool!
cool! cool! cool! cool! cool! cool!

Agricultural
advances
made at
NASA!

cool! cool! cool! cool! cool! cool!
cool! cool! cool! cool! cool! cool!



2017

Zoom level:
100%

Works cited:

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