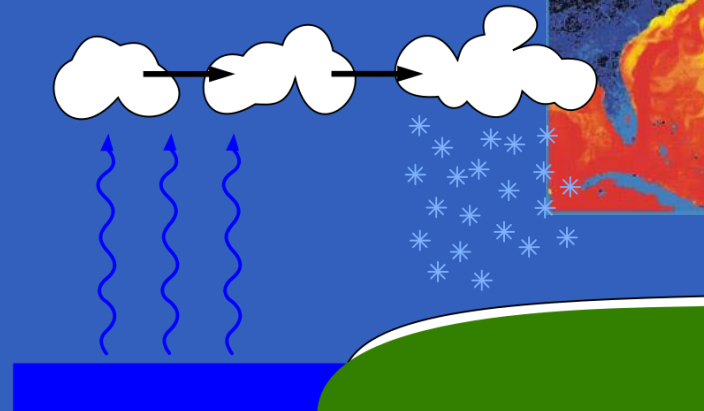
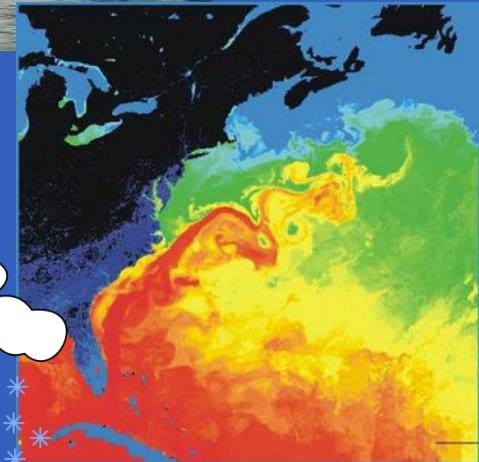


Water and Weather

- The Troposphere
- What Causes Weather?
- The Hydrosphere
- Effects of Water Bodies on Weather
- Oceans and Weather
- Lakes and Weather



TeachWithFergy

Preview File

Please enjoy this preview of your Student Version of the lesson. I've created this PDF for ease of viewing and to decrease the file size but of course, your lesson will be in PowerPoint format.

- Some slides appear blank because they have been removed.
- Student versions have portions of the text removed which is given in the teacher version and appear as _____
- Other slides may have on them, this represents writing that has been removed.

The Troposphere

-
— _____
- 80% of Earth's air mass
-



What Causes Weather?

-
- Air movement

- _____
- _____



- Factors affecting air movement

- _____
- _____
- _____
- _____



What Causes Weather?

- _____
 -
 - Warmer air molecules than cooler air molecules
 - _____
 - Cooler air above
 - _____

What Causes Weather?

-
 - When warm air rises, it leaves behind an area of low pressure
 - _____
- Temperature varies across Earth's surface
 - _____
 -

The Hydrosphere

- Recall: _____
- _____
- 70% of Earth's surface
-



This slide has been removed

Effects of Water Bodies on Weather

- Oceans

- _____

-

- _____

- Humidity

- _____



Effects of Water Bodies on Weather

- Lakes

- _____

- _____



Oceans and Weather

- Currents
 - _____
 - Moderate temperatures along coastlines
 - _____



This slide has been removed

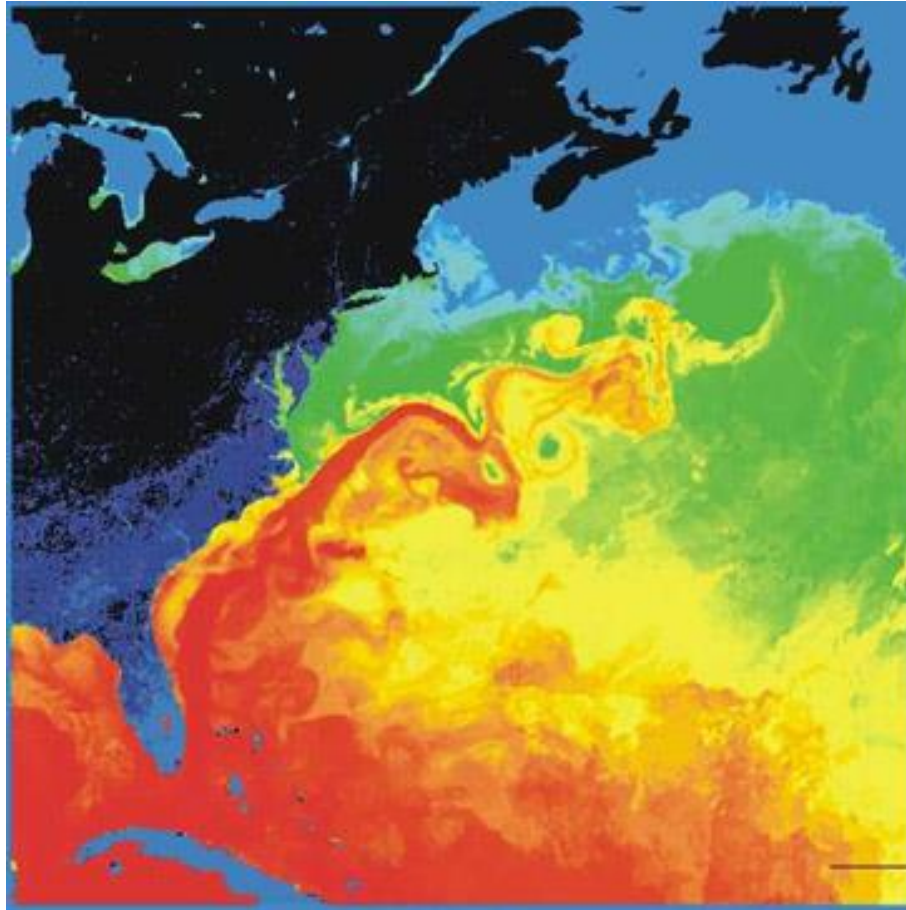
Oceans and Weather

- Currents

-

- E.g., Gulf Stream carries warm water from the Caribbean along US east coast and across Atlantic to European west coast → _____

Oceans and Weather



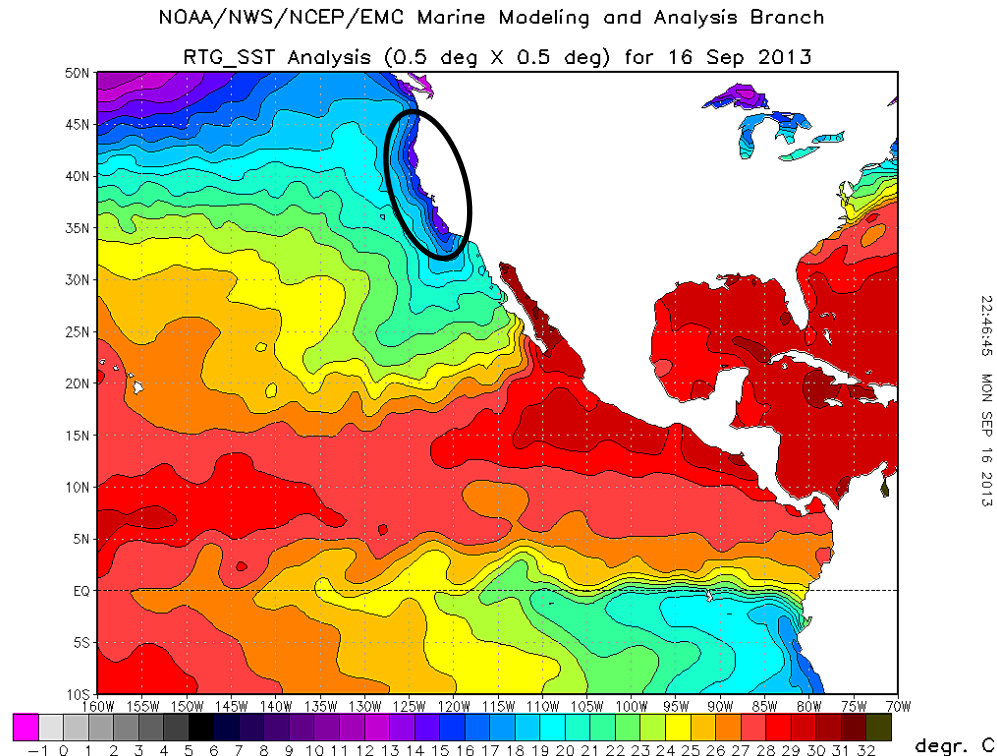
The Gulf Stream along the US east coast

This slide has been removed

Oceans and Weather

- Temperature

- West Coast of US: → _____



Oceans and Weather

- Temperature

- _____

-

- _____

- Evaporated water condenses at the top of the storm and falls back as rain as air rushes out from the top

This slide has been removed

Oceans and Weather



Oceans and Weather

- Temperature

- _____

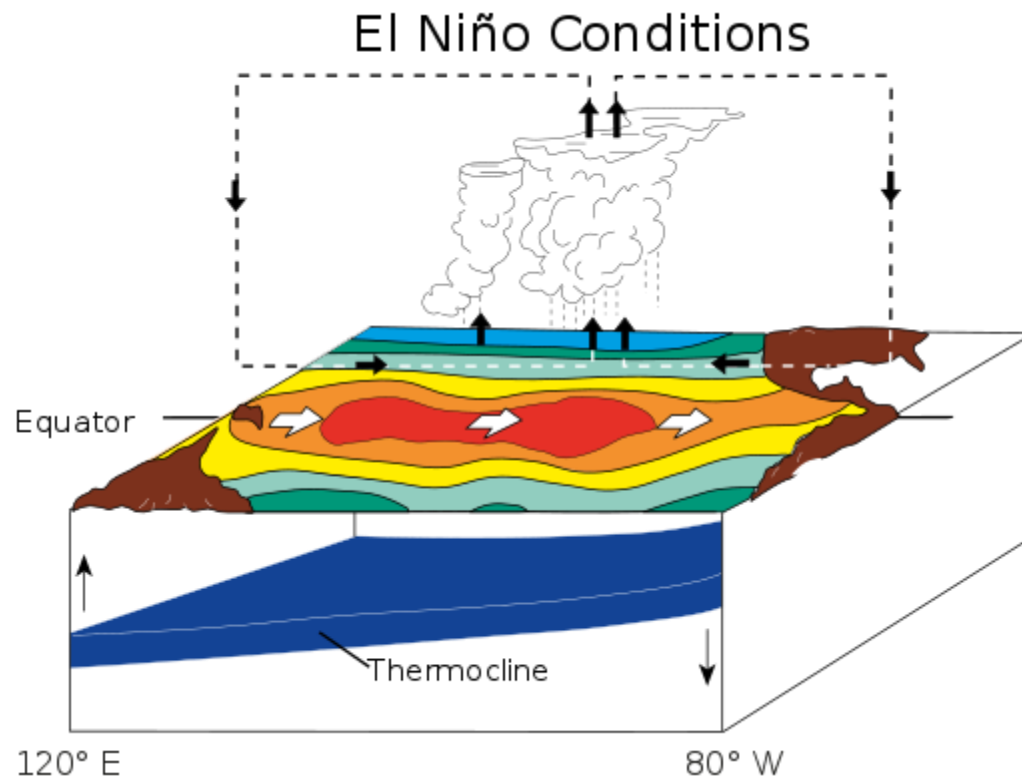
- Warm coastal cities tend to get higher rainfall than inland

- El Niño: _____

-

- Increased humidity → _____

Oceans and Weather



Oceans and Weather

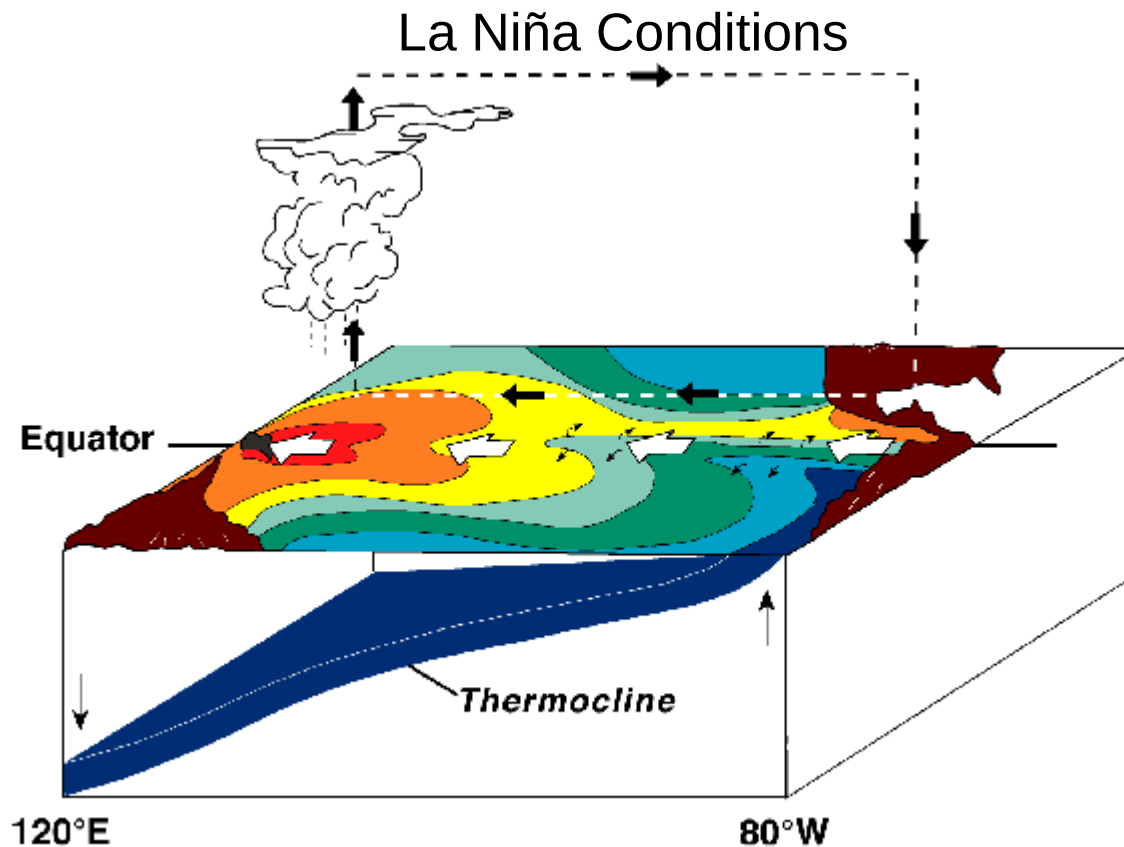
- Temperature

- La Niña: _____

-

- Decreased humidity → _____

Oceans and Weather

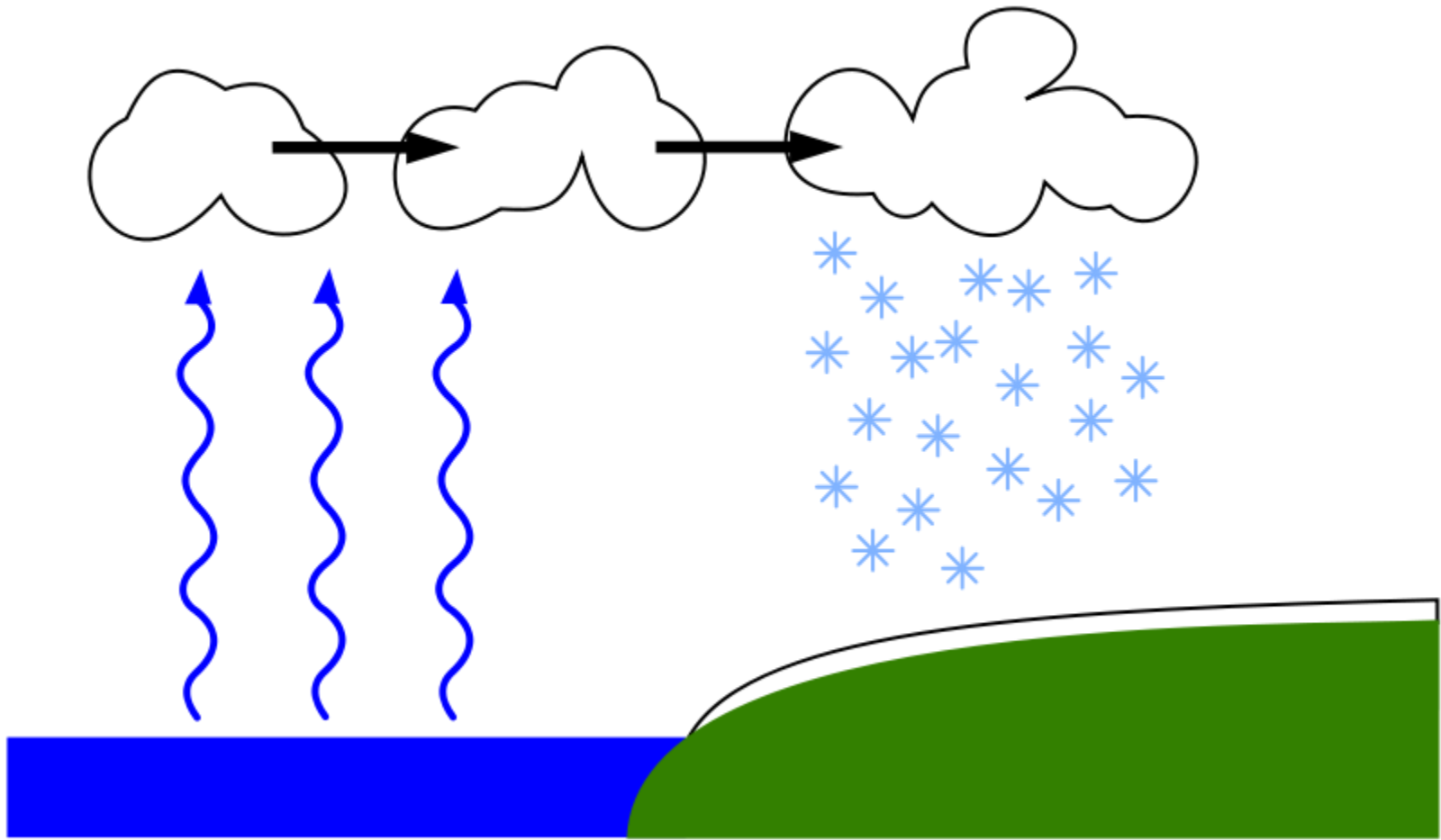


This slide has been removed

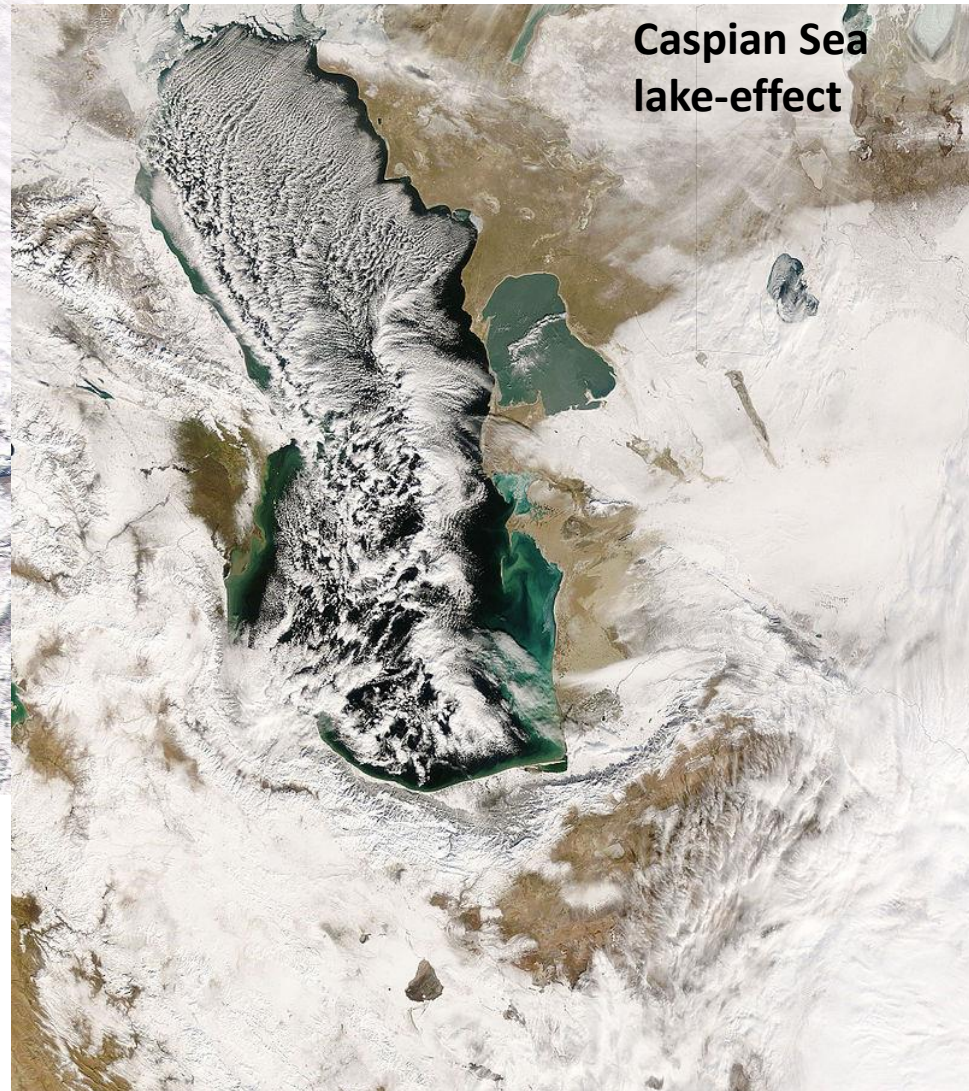
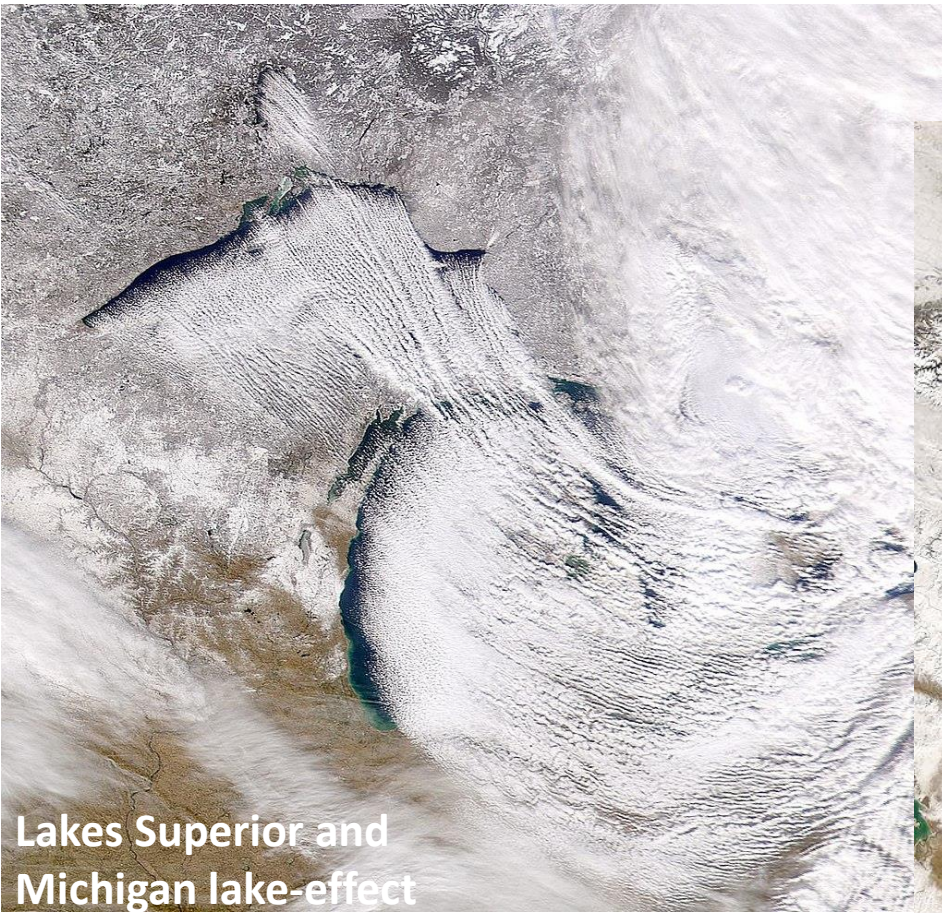
Lakes and Weather

- Precipitation: _____
 -
 - _____
 - For example: The Great Lakes in North America
 - _____
 - E.g., the Mississippi River

Lakes and Weather



Lakes and Weather



Lakes and Weather

- Temperature moderation
 - Much like oceans, _____

