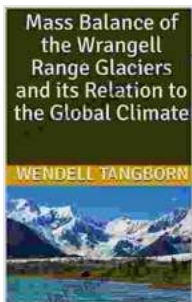


Unveiling the Secrets of the Wrangell Range Glaciers: A Comprehensive Analysis of Their Mass Balance

The Wrangell Range, located in southeastern Alaska, is home to one of the largest concentrations of glaciers in North America. These glaciers, which cover an area of over 2,000 square miles, play a vital role in the global climate system.

As glaciers accumulate snow and ice, they store water that would otherwise flow into the oceans. This water storage has a significant impact on global sea levels. In addition, glaciers reflect sunlight back into space, which helps to cool the planet.



Mass Balance of the Wrangell Range Glaciers and its Relation to the Global Climate by 藤井 一至

★★★★☆ 4.6 out of 5

Language : English
File size : 2397 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 25 pages
Lending : Enabled



As the global climate warms, glaciers are melting at an increasing rate. This melting is contributing to sea level rise and global warming. In Free

Download to understand the impact of climate change on glaciers, it is essential to monitor their mass balance.

The mass balance of a glacier is the difference between the amount of snow and ice that accumulates on the glacier and the amount that melts or sublimates. A positive mass balance indicates that the glacier is growing, while a negative mass balance indicates that the glacier is shrinking.

A team of scientists from the University of Alaska Fairbanks has been studying the mass balance of the Wrangell Range glaciers for over 30 years. Their research has shown that the glaciers have been losing mass at an accelerating rate since the early 1990s.

The scientists have identified a number of factors that are contributing to the mass loss of the Wrangell Range glaciers. These factors include:

- Rising air temperatures
- Decreasing snowfall
- Increasing melt rates
- Changes in wind patterns

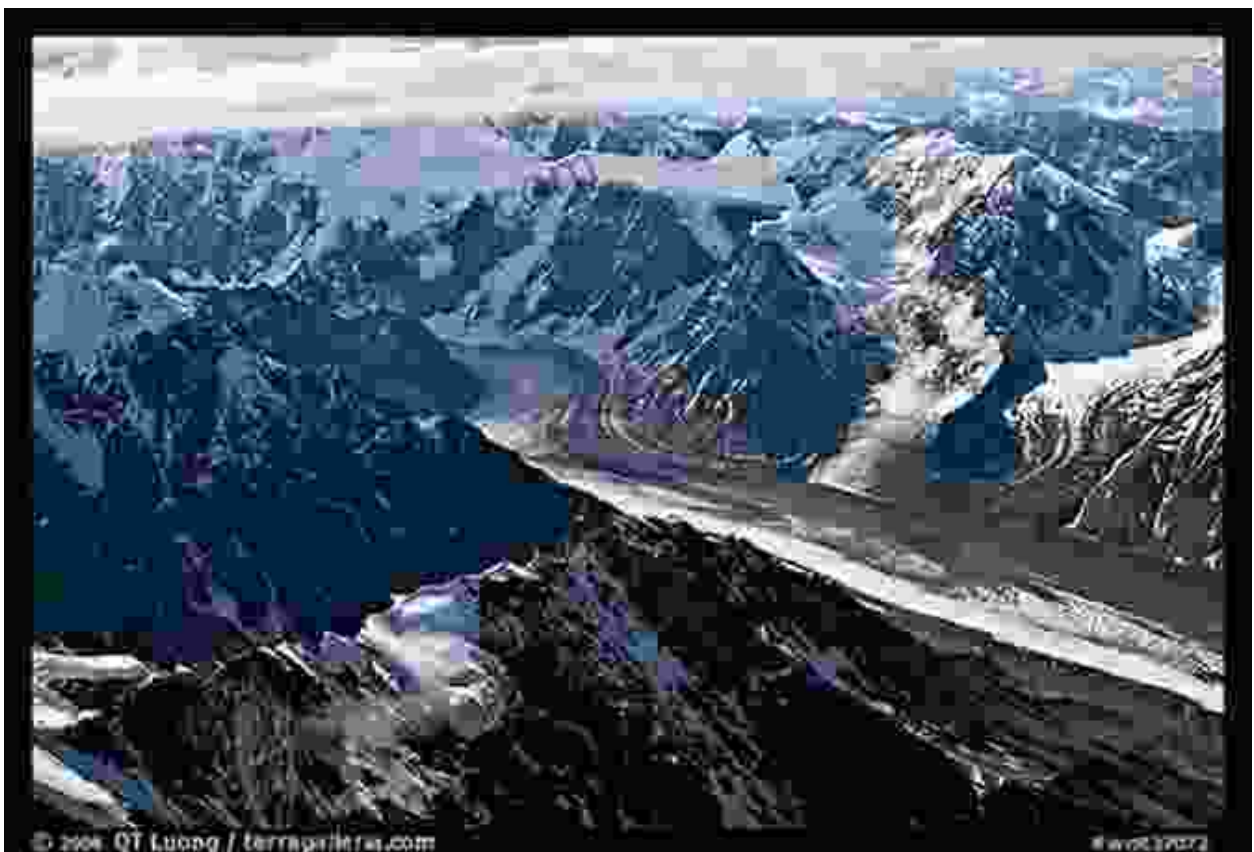
The scientists' research has also shown that the mass loss of the Wrangell Range glaciers is having a significant impact on the local environment. The melting glaciers are causing rivers to rise, which is eroding riverbanks and threatening infrastructure. In addition, the melting glaciers are creating new lakes, which are altering the landscape and providing new habitat for wildlife.

The scientists' research on the Wrangell Range glaciers is providing valuable insights into the impacts of climate change on glaciers. Their findings are helping to improve our understanding of the global climate system and to develop strategies to mitigate the effects of climate change.

To learn more about the Wrangell Range glaciers and the scientists' research, please visit the following website:

<http://www.uaf.edu/glaciers/>

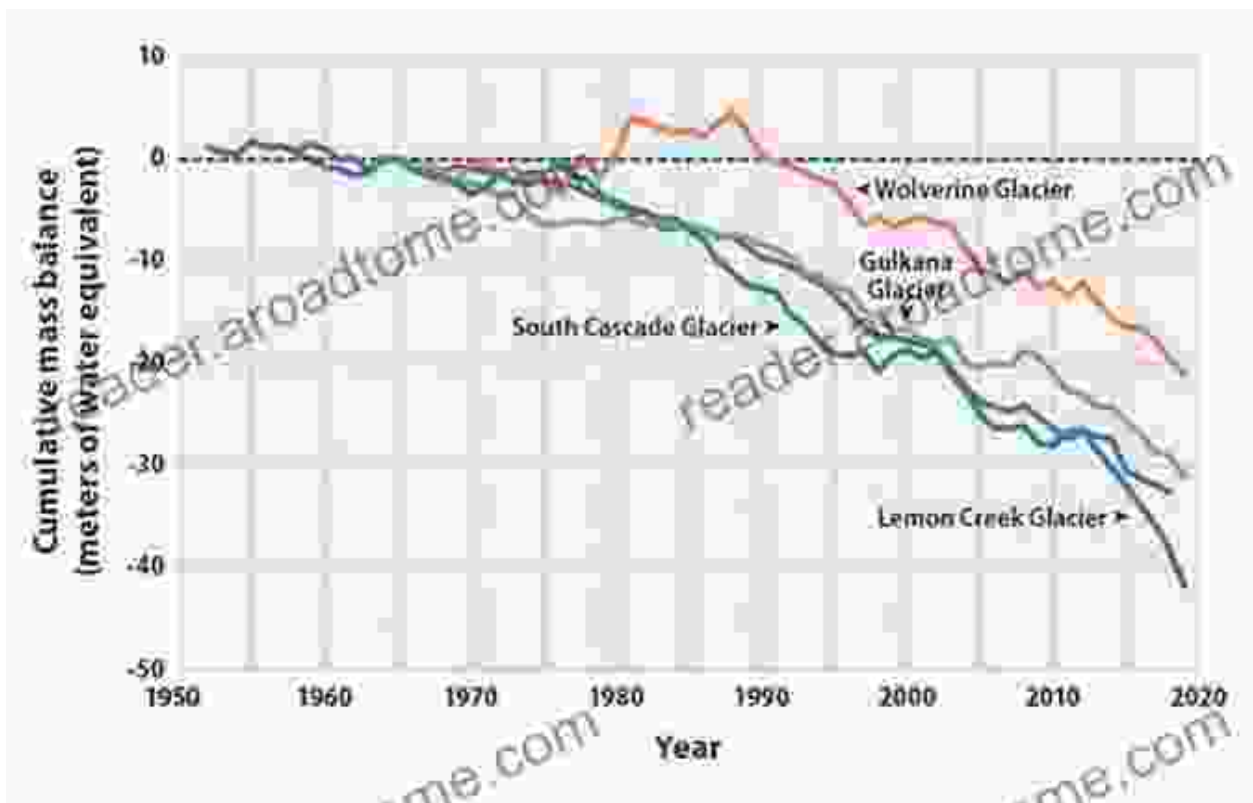
Image Gallery



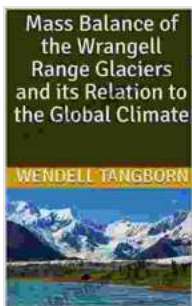
- A satellite image of the Wrangell Range glaciers.



- A photo of a glacier in the Wrangell Range.



- A graph showing the mass balance of the Wrangell Range glaciers.

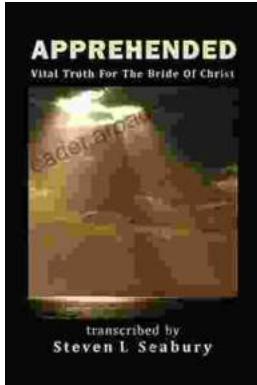


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