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OUR RISING SEAS - WHAT DOES THE DATA TELL US?



THIS ACTIVITY LINKS TO THE ARTICLE ON PAGE 4 OF *SPAZA SPACE*, NATIONAL SCIENCE WEEK EDITION, 2024

USING DATA TO UNDERSTAND GLOBAL WARMING

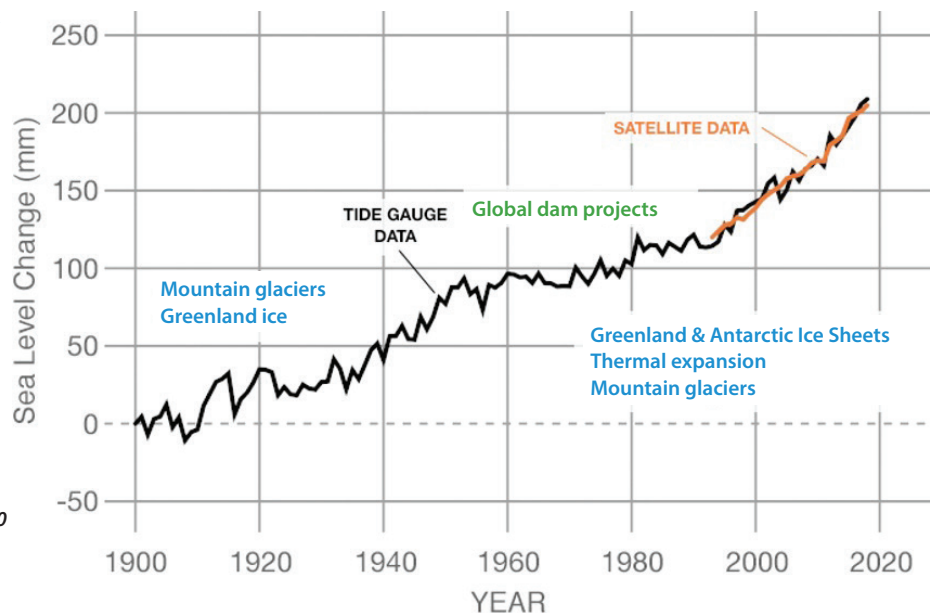
LEARNING ABOUT **CLIMATE CHANGE** AND ITS EFFECTS HELPS US TAKE STEPS TO **PROTECT** OUR PLANET AND OUR FUTURE. ONE WAY TO DO THIS IS TO UNDERSTAND THE RISKS OF **RISING SEA LEVELS** AND FIND WAYS TO ADAPT.

SCIENTISTS USE A SPECIAL TOOL CALLED A **TIDE GAUGE** TO MEASURE HOW HIGH THE WATER IS AROUND IT. THIS TOOL MEASURES **WATER LEVELS** AND COMPARES THEM WITH THE LAND. THE INFORMATION IT COLLECTS IS VERY IMPORTANT BECAUSE IT HELPS US TO TRAVEL SAFELY BY SEA AND TO RESTORE AND PROTECT NATURAL HABITATS.

READING THE GRAPH:

BLUE LABELS:
THE FACTORS THAT CAUSED AN INCREASE IN SEA LEVELS.

GREEN LABELS:
THE FACTORS THAT CAUSED THE SEA LEVELS TO DECREASE.



Sea level changes between 1900 and 2018 Credit: Frederikse et al. (2020); NASA's Goddard Space Flight Center/PO.DAAC



LET'S THINK ABOUT IT

USE THE INFORMATION AND THE DATA ON THE GRAPH TO ANSWER THESE QUESTIONS:

1. WHAT DOES A TIDE GAUGE MEASURE?
2. WHICH YEARS ARE REPRESENTED IN THE GRAPH?
3. STATE THE DATA SOURCE FOR THIS GRAPH.
4. APPROXIMATELY HOW MUCH DID THE SEA LEVEL RISE, IN MILLIMETRES (MM), BETWEEN 1910 AND 1930?
5. APPROXIMATELY HOW MUCH DID THE SEA LEVEL RISE, IN MILLIMETRES (MM), BETWEEN 1930 AND 1950?