

Arctic Sea Ice Hits Its Yearly Low

Satellites show the Arctic's floating ice stayed far below old averages again this summer.



A satellite observes floating Arctic sea ice with open ocean water showing between the ice.

Arctic sea ice reached its smallest size of the year on September 12, according to NASA's Earth Observatory and the National Snow and Ice Data Center. Sea ice is **frozen ocean** water. It floats around the Arctic, the area around the North Pole.

At that low point, the ice covered about 1.78 million square miles. Scientists call this the yearly **minimum**, meaning the smallest amount for that year. The 2026 minimum tied 2008, 2010, and 2025 for the 10th-lowest minimum in the satellite record. That record began in late 1978.

This matters because the ice is part of a long pattern. Arctic sea ice grows during the dark, cold **winter**. It usually reaches its biggest size in March. Then it melts through the summer. That yearly change is normal. But satellites show that both the winter ice and the summer ice now cover less ocean than they did a few decades ago.

The past 20 summers, from 2007 through 2026, all rank among the 20 lowest summer minimums in the satellite record. Weather can still change one year a lot. NASA scientists say extra **clouds** in the past decade have slowed some **melting** by blocking sunlight. Even so, the summer ice has stayed well below the long-term average.

The kind of ice is changing too. Some sea ice used to survive more than one summer. Scientists call that multiyear ice. Now there is less of it. More of the Arctic is covered by first-year ice, which formed during the most recent winter. First-year ice is usually thinner. In March 2026, the winter **maximum** tied March 2025 for the lowest in the satellite record.

Scientists track the ice from space. The satellites use passive microwave sensors. Microwaves are a kind of energy Earth gives off naturally. Sea ice gives off more of this energy than open water, so the satellites can tell them apart. Microwaves can pass through clouds. That helps scientists watch the ice often, even when the sky is cloudy.

The Arctic is far away from most classrooms. But the idea is familiar. A freezer makes ice grow. Warmth makes ice shrink. In the Arctic, satellites help people see that change across a whole ocean.

Written from reporting by NASA.

THINK IT THROUGH

1. Should people pay more attention to one record-low year or to a long pattern over many years? Defend your answer.

A strong answer: A strong answer should weigh short-term weather changes against the usefulness of long satellite records.

2. What makes satellites a good tool for studying Arctic sea ice, and what might they still not show well?

A strong answer: A strong answer should mention wide, regular views through clouds while noticing that some local details may need other evidence.

3. If you had to explain this story with something from daily life, what comparison would you use, and where could that comparison be misleading?

A strong answer: A strong answer should connect to familiar melting or freezing while recognizing that the Arctic is larger and more complex.

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C E M I K N O M I X
I I U B I C H E C R
M E L T I N G I L F
N A D O I U O L O R
N E X I R N C N U O
N E W I N T E R D Z
X M Z H M N A D S E
C I R M I U N R M N
M I N I M U M H L R
E Z E M T U S A A O

CLOUDS

FROZEN

MAXIMUM

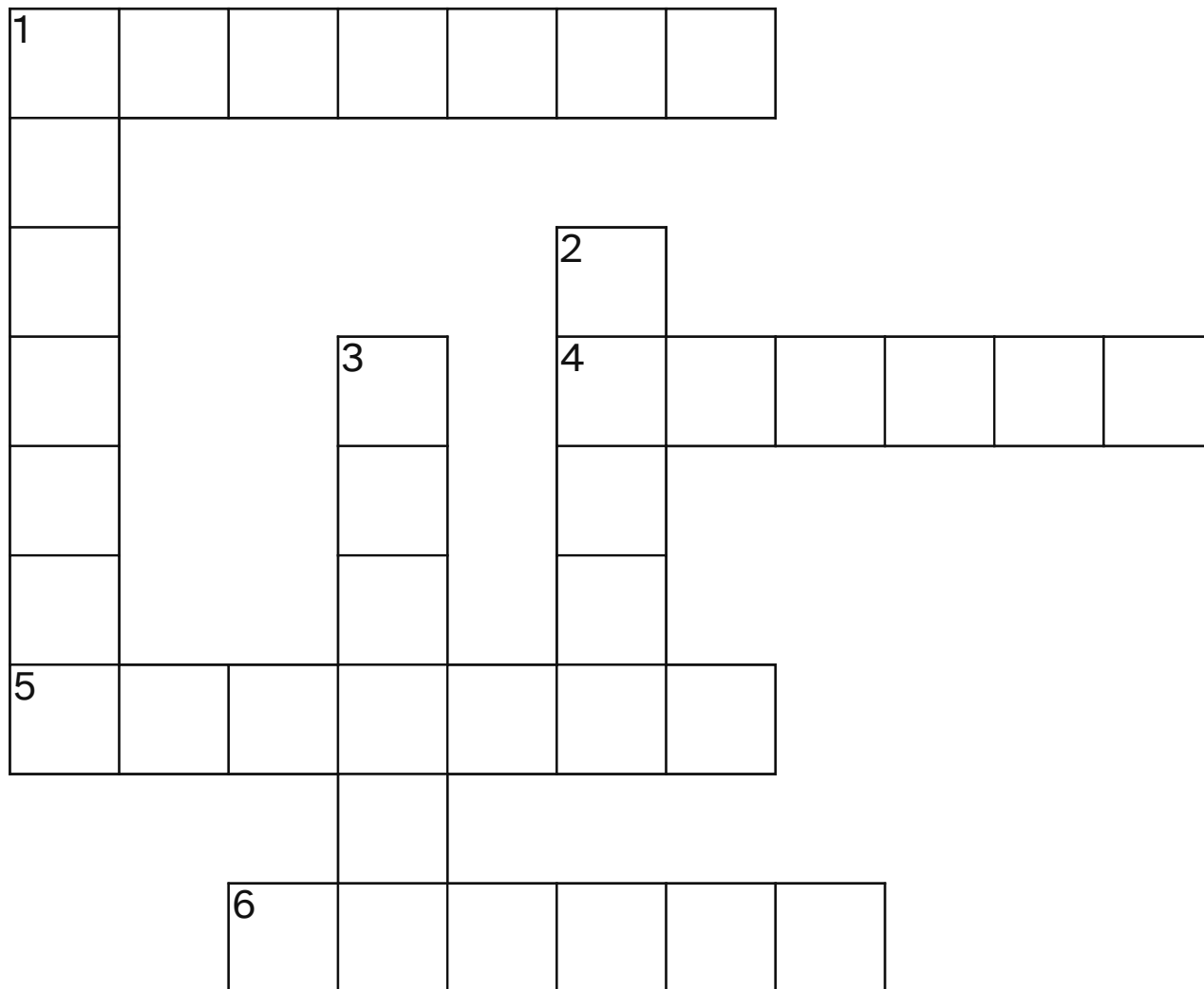
MELTING

MINIMUM

OCEAN

WINTER

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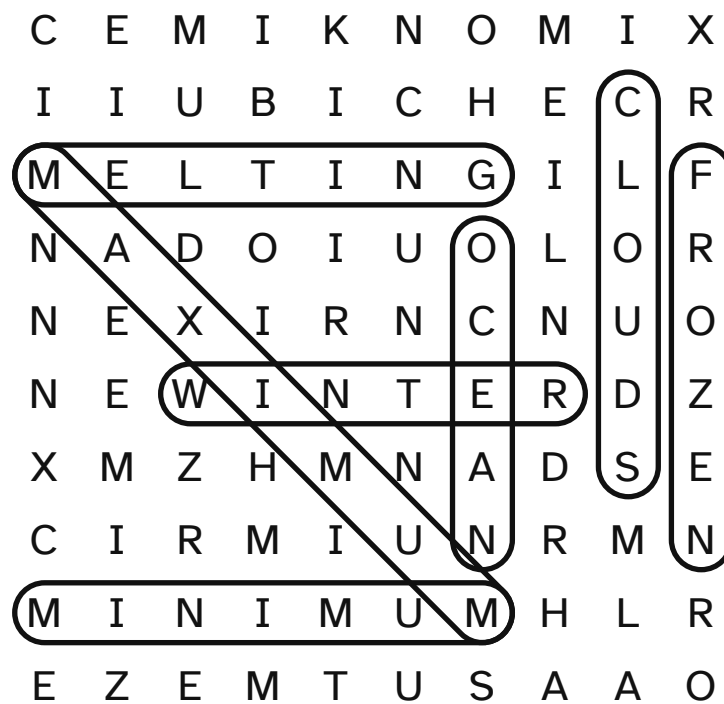
ACROSS

- 1 Smallest amount or size during a certain time
- 4 Groups of tiny water drops or ice pieces floating in the sky
- 5 Changing from solid ice to liquid water as it gets warm
- 6 Turned to ice because of very cold temperatures

DOWN

- 1 Largest amount or size during a certain time
- 2 Huge body of salty water covering much of Earth
- 3 Coldest season of the year

Arctic Sea Ice Hits Its Yearly Low — answer key



CLOUDS

FROZEN

MAXIMUM

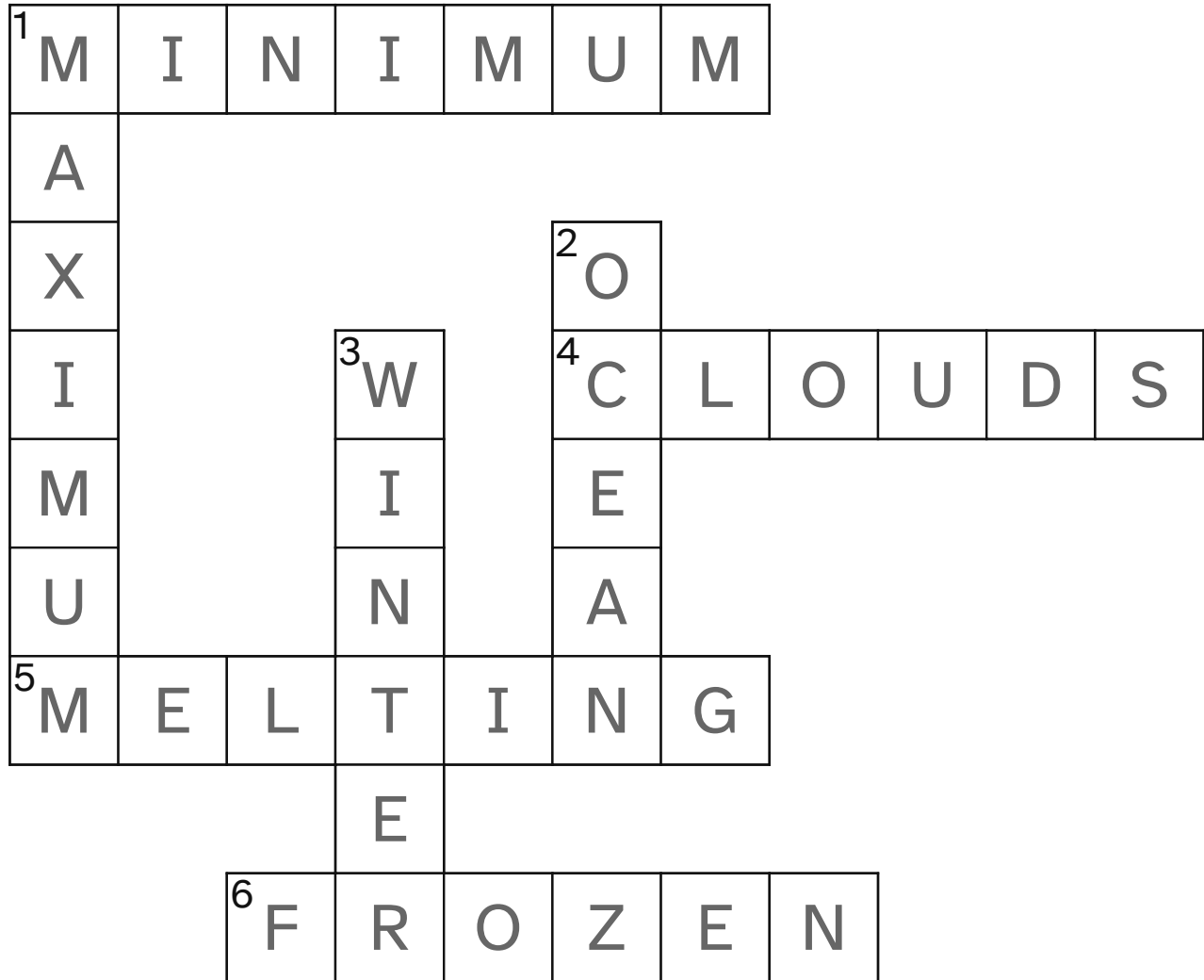
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Where this came from

This article was written for 3andB from the reporting below. It is not a reprint — the wording is ours and the facts are theirs.

NASA

“Arctic Sea Ice Shrinks to Its 2026 Minimum”

Published Wednesday, October 7, 2026

Read by us on Wednesday, October 7, 2026

<https://science.nasa.gov/earth/earth-observatory/arctic-sea-ice-shrinks-to-its-2026-minimum/>

WHAT IS IN THIS PACKET

The article with a note on each question, a word search, a crossword, and the answer key to both.

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