



RISING WATERS

A WARMER WORLD

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Around the globe, sea levels are rising.

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Greenhouse gas emissions cause our planet to warm, and

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Earth's oceans absorb about 90% of the excess heat.

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As ice melts at the poles and high in the mountains, and the molecules

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of ocean water expand, the seas are making their way onto land.

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Since 1880, sea levels have

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risen about 8 to 9 inches. But the seas don't rise uniformly.

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Some places are at higher risk for flooding, and

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sea levels are rising faster as time passes. Right now,

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sea level is rising about 3.3 millimeters a year, 30

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percent faster than in 1992.

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Here at NASA, we're using satellites, like the new Sentinel-6 Michael Freilich,

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along with ships and airplanes, to study the processes

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driving sea level rise and the effects of rising waters.