

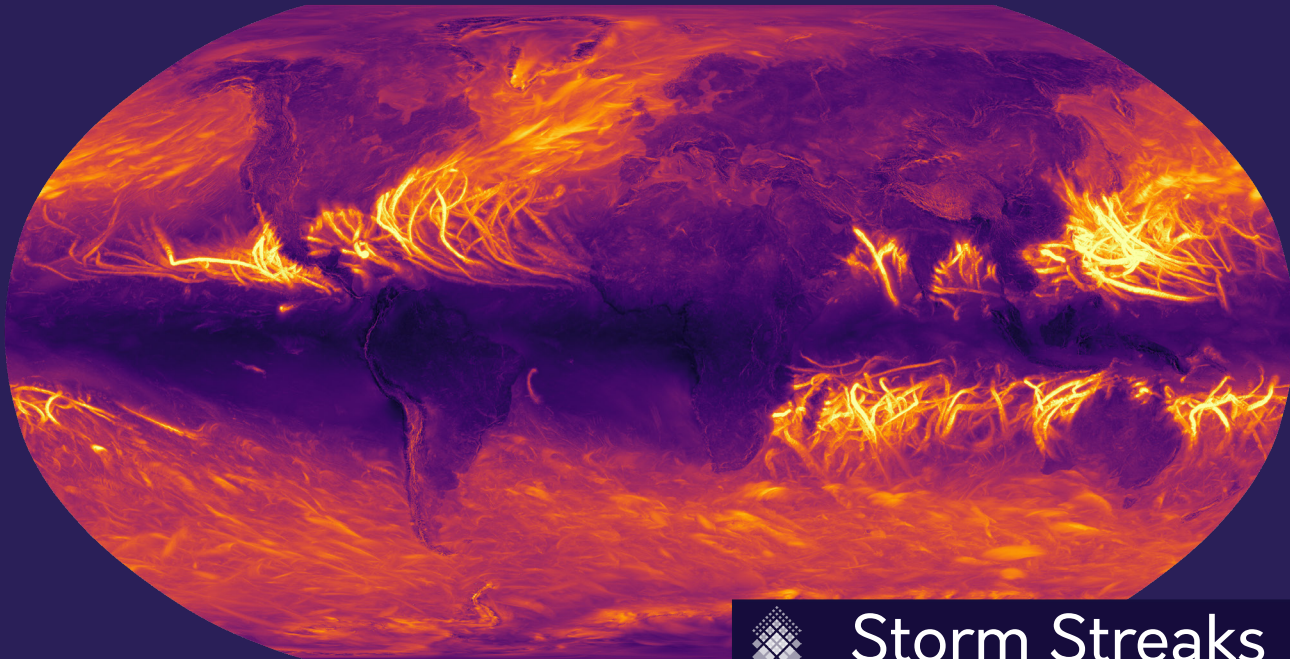
Leaving A Trace



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The close-up of the R2B9 ICON/HAMOCC simulation shows the trace left by a hurricane in form of reversed CO₂ flux. It shows surface wind speed and the flux of CO₂ between the surface ocean and the atmosphere.

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Storm Streaks



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This high-resolution climate simulation for EERIE, tco1279 (~9 km) AMIP, tracks extreme 10-meter wind gusts over 44 years (1980–2023), using realistic sea surface temperatures and sea ice conditions from ESA-CCI v3.

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Doldrums



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This visualization shows sea salt aerosols over the Atlantic generated by trade winds. The data originates from a simulation with ICON-HAM-lite at a resolution of 5 kilometers.

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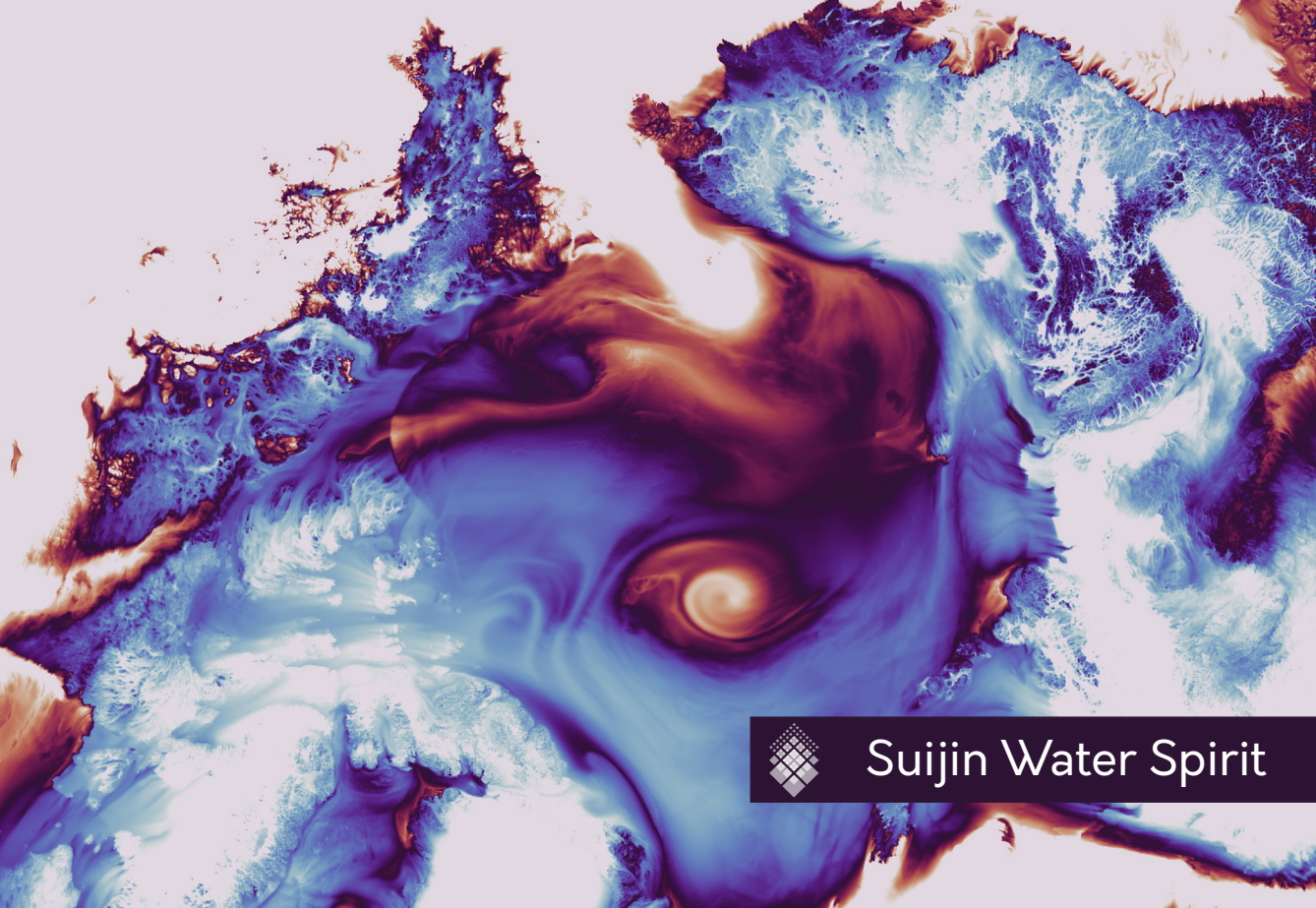
Unveiling Arctic Dynamics



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Even the temperature field 2m over the Ocean reveals cracks in the ice.

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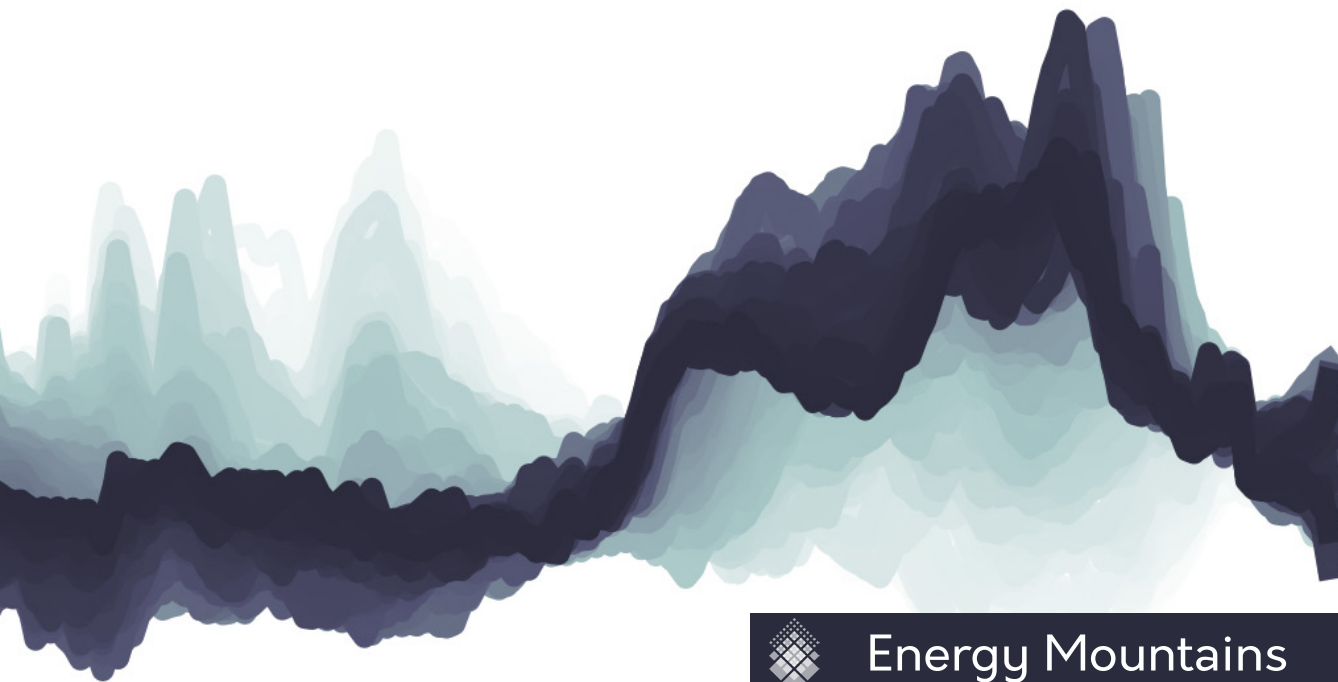
Suijin Water Spirit



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A curved sea ice lead opened up in Beaufort Sea and serves as a localized source of increased evaporation. It creates a “river” of high humidity with a golden Arctic cyclone at the center, contrasting the drier rest of the Arctic (blue shades).

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Energy Mountains



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Energy distribution from the South to North Pole: In January, the Southern Hemisphere (light colors) receives more energy, while these 'energy peaks' shift over the year, revealing the Northern Hemisphere's summer (dark colors).

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