

Courses

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Arctic Could Be Ice-Free In The Summer By 2030

Why In The News?

- Scientists Announced On 6th June 2023 That The **Arctic Ocean's Ice Cap Will Disappear In The Summer** As Early As The 2030s, Ten Years Earlier Than Anticipated. Despite Concerted Efforts And International Discussions, Climate Change Has Already Begun To Have A **Terrible Impact On The Ecosystem**.

About The Study:

- The Study That Was Published In The **Journal Nature Communications** Found That Even Capping Global Warming At 1.5 Degrees Celsius In Line With The Paris Climate Treaty Will Not Prevent The **North Pole's Vast Expanse Of Floating Ice From Melting Away**.
- "It Is Too Late To Still Protect The Arctic Summer Sea Ice As A Landscape And As A Habitat," Co-Author **Dirk Notz, A Professor At The University Of Hamburg's Institute Of Oceanography**, Said.
- The Study Warns This Will Be The First Major Component Of Our Climate System That We Lose Because Of Our **Emission Of Greenhouse Gases**. Decreased Ice Cover Has Serious Impacts Over Time On Weather, People, And Ecosystems-Not Just Within The Region, But **Globally**.
- Sea Ice In Antarctica **Dropped To 1.92 Million Square Kilometres** In February, The Lowest Level On Record And Almost One Million Square Kilometres Below The 1991-2020 Mean.



Issue Of Climate Change In The Arctic:

- The Arctic Has Been Experiencing **Climate Heating Faster Than Any Other Part Of The Planet**. The Ice Which Remains At The End Of Summer Is Called **Multiyear Sea Ice** And Is Considerably Thicker Than Its Seasonal Counterpart. It Acts As Barrier To The Transfer Of Both Moisture And Heat Between The Ocean And Atmosphere.
- Over The Past 40 Years This Multiyear Sea Ice Has Shrunk From **Around 7 Million Sq Km To 4 Million**. That Is A Loss Equivalent To Roughly **The Size Of India Or 12 UKs**. In Other Words, It's A Big Signal, One Of The Most Stark And Dramatic Signs Of Fundamental Change To The Climate System Anywhere In The World.
- Therefore, There Has Been Considerable Effort Invested In Determining When The Arctic Ocean Might **First Become Ice-free In Summer**, Sometimes Called A **"Blue Ocean Event"** And Defined As When The Sea Ice Area Drops Below 1 Million Sq Kms.



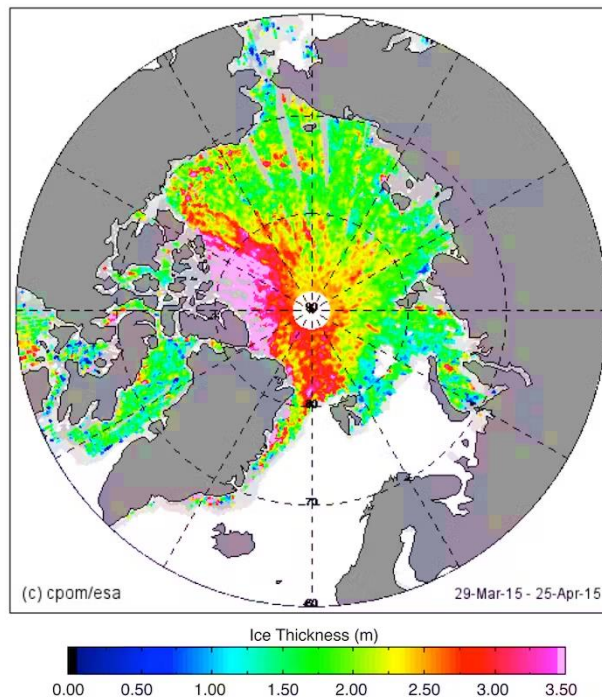
Melting Faster Than Models Predicted:

- The Latest **IPCC Climate Science Report**, Published In 2021, Predicted A Loss Of About 2.5% Per Decade, While The Observations Were Closer To 8%. These Predictions Were Made Way Back In The Early 2000's.

Why This Matters?

- Arctic Sea Ice Is An **Important Component Of The Climate System**.
- As It Dramatically Reduces The Amount Of Sunlight Absorbed By The Ocean, Removing This Ice Is Predicted To **Further Accelerate Warming**, Through A Process Known As A Positive Feedback.
- This, In Turn, Will Make The **Greenland Ice Sheet Melt Faster**, Which Is Already A Major Contributor To Sea Level Rise.
- The Loss Of Sea Ice In Summer Would Also Mean **Changes In Atmospheric Circulation And Storm Tracks**, And **Fundamental Shifts In Ocean Biological Activity**.
- These Are Just Some Of The Highly Undesirable Consequences And It Is Fair To Say That The Disadvantages Will Far Outweigh The Slender Benefits.

Arctic Sea Ice Thickness



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