# [***Tsinghua University Reports Findings in Climate Change (Mangrove reforestation provides greater blue carbon benefit than afforestation for mitigating global climate change)***](https://advance.lexis.com/api/document?collection=news&id=urn:contentItem:67ND-W781-JBSP-120W-00000-00&context=1516831)

Climate Change Daily News

February 28, 2023 Tuesday

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**Section:** CLIMATE CHANGE

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**Body**

2023 FEB 28 (NewsRx) -- By a News Reporter-Staff News Editor at Climate Change Daily News -- New research on Climate Change is the subject of a report. According to news reporting out of Beijing, People's Republic of China, by NewsRx editors, research stated, "Significant efforts have been invested to restore ***mangrove*** forests worldwide through reforestation and afforestation. However, ***blue carbon*** benefit has not been compared between these two silvicultural pathways at the global scale."

Our news journalists obtained a quote from the research from Tsinghua University, "Here, we integrated results from direct field measurements of over 370 restoration sites around the world to show that ***mangrove*** reforestation (reestablishing ***mangroves*** where they previously colonized) had a greater carbon storage potential per hectare than afforestation (establishing ***mangroves*** where not previously ***mangrove***). Greater carbon accumulation was mainly attributed to favorable intertidal positioning, higher nitrogen availability, and lower salinity at most reforestation sites. Reforestation of all physically feasible areas in the deforested ***mangrove*** regions of the world could promote the uptake of 671.5-688.8 Tg CO-eq globally over a 40-year period, 60% more than afforesting the same global area on tidal flats (more marginal sites)."

According to the news editors, the research concluded: "Along with avoiding conflicts of habitat conversion, ***mangrove*** reforestation should be given priority when designing nature-based solutions for mitigating global climate change."

For more information on this research see: ***Mangrove*** reforestation provides greater ***blue carbon*** benefit than afforestation for mitigating global climate change. Nature Communications, 2023;14(1):756. Nature Communications can be contacted at: Nature Portfolio, Heidelberger Platz 3, Berlin, 14197, Germany. (Nature Publishing Group - www.nature.com/; Nature Communications - www.nature.com/ncomms/)

Our news journalists report that additional information may be obtained by contacting Shanshan Song, Dept. of Earth System Science, Ministry of Education Key Laboratory for Earth System Modeling, Institute for Global Change Studies, Tsinghua University, Beijing, 100084, People's Republic of China. Additional authors for this research include Yali Ding, Wei Li, Yuchen Meng, Jian Zhou, Ruikun Gou, Conghe Zhang, Shengbin Ye, Neil Saintilan, Ken W. Krauss, Stephen Crooks, Shuguo Lv and Guanghui Lin.

The direct object identifier (DOI) for that additional information is: https://doi.org/10.1038/s41467-023-36477-1. This DOI is a link to an online electronic document that is either free or for purchase, and can be your direct source for a journal article and its citation.

Publisher contact information for the journal Nature Communications is: Nature Portfolio, Heidelberger Platz 3, Berlin, 14197, Germany.

Keywords for this news article include: Beijing, People's Republic of China, Asia, Climate Change, Global Climate, Global Warming.

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