

Against that, he said, the currently observed rise of about three mm per year is significant, and many scientists working in the field expect to see an acceleration.

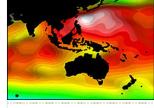
Last year, German researcher Stefan Rahmstorf used different methodology but reached a similar conclusion to Dr Jevrejeva's group, projecting a sea level rise of between 0.5m and 1.4m by 2100.

Space-eye view

The latest satellite data indicates that the Greenland and West Antarctic ice sheets are losing mass, though the much bigger East Antarctic sheet may be gaining mass.

A full melting of Greenland and West Antarctica would raise sea levels by many metres; but the process, if it happened, would take centuries.

"We know what's happening today from satellite data, but trying to predict what that means in the future is very difficult science," noted Steve Nerem from the University of Colorado, whose own research concerns global sea levels.



Ebb and flow of sea level rise

"There's a lot of evidence out there that we're going to see at least a metre of sea level rise by 2100," he said.

"We're seeing big changes in Greenland, we're seeing big changes in West Antarctica, so we're expecting this to show up in the sea level data as an increase in the rate we've been observing."

However, a rise of even a metre could have major implications for lowlying countries - especially, noted Dr Holgate, those whose economies are not geared up to build sophisticated sea defence systems.

"Eighty to 90% of Bangladesh is within a metre or so of sea level," he said, "so if you live in the Ganges delta you're in a lot of trouble; and that's an awful lot of people."

 ${\rm Dr}$ Jevrejeva's projections have been submitted for publication in the scientific journal Proceedings of the National Academy of Sciences.

Richard.Black-INTERNET@bbc.co.uk

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