

Data collected by GRAIL can then be used to study the internal composition of our cratered companion.

The South Pole-Aitken Basin has been at the centre of numerous investigations because of just how unique it is.

The region offers clues both on the interior composition of our closest satellite and its history, and who knows what other mysteries it holds...

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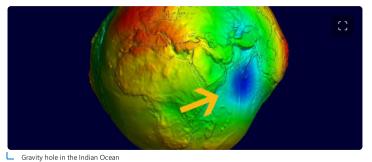


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## There's a Giant Gravity Hole In The Indian Ocean, And We May Finally Know Why

Story by Clare Watson • Friday



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Deep beneath the Indian Ocean, that pull weakens to an extreme low, leaving what is considered a massive gravity 'hole' some three million square kilometers in size roughly where the seafloor sinks into a vast depression.

One of the most profound gravitational anomalies on Earth, its presence has been alluded to for a while. Ship-based surveys and satellite measurements revealed long ago that the sea level just off the tip of the Indian subcontinent dipped on account of the gravitational tug-of-war between the aptly named Indian Ocean geoid low and the surrounding gravitational 'highs'.

Just what caused this relative weakening has never been clear. Now two researchers from the Indian Institute of Science think they have a better idea of the kinds of planetary phenomena that could be involved.

"All these [past] studies looked at the present-day anomaly and were not concerned with how this geoid low came into existence," geoscientists Debanjan Pal and Attreyee Ghosh explain in their published paper, which describes their new working hypothesis.

They think the answer lies more than 1.000 kilometers (621 miles) beneath