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Calcium carbonate is a white, chalky material that helps control the delicate acidity balance, or pH, of sea water.

pH balance is vital for the health of marine ecosystems, including coral reefs, and important in controlling how easily the ocean will absorb and buffer future increases in atmospheric CO2.

This calcium carbonate is being produced by bony fish, a group that includes 90 percent of marine fish species but not sharks or rays. These fish continuously drink seawater to avoid dehydration.

This exposes them to an excess of ingested calcium, which they precipitate into calcium carbonate crystals in the gut.

The fish then simply excrete these unwanted chalky solids, sometimes called 'gut rocks', in a process that is separate from digestion and production of faeces.

The study reveals that carbonates excreted by fish are chemically quite different from those produced by plankton.

This helps explain a phenomenon that has perplexed oceanographers: the sea becomes more alkaline at much shallower depths than expected.

The researchers predict that the combination of increases in sea temperature and rising CO2 expected over this century will cause fish to produce even more calcium carbonate.

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