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#### ON THE COVER



This artist's rendition of Earth uses data obtained from the Orbiting Carbon Observatory-2 (OCO-2) to show a time-averaged, false-color view of

the concentration of atmospheric CO<sub>2</sub> over Asia, parts of Africa, and Europe. In this issue (see page 186), the initial results from the OCO-2 mission are reported, including El Niño's effects on CO<sub>2</sub> fluxes, detection of CO<sub>2</sub> emissions from point sources, and measurement of terrestrial photosynthesis. For more on the process behind the cover image, see <http://scim.ag/2xmJxiU>. *Data visualization: C. Bickel/Science; NASA Scientific Visualization Studio*

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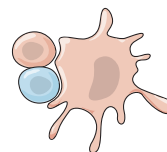
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[dx.doi.org/10.1126/science.aao2602](https://doi.org/10.1126/science.aao2602)

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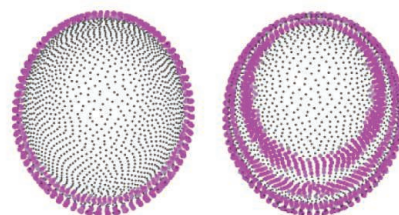
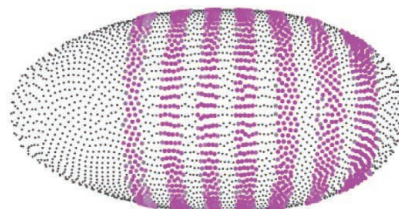
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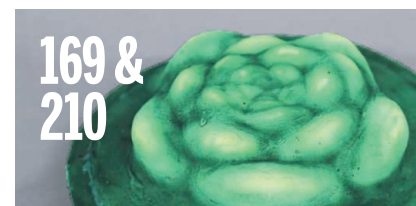
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