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False-color image of Earth from the GOES-East satellite. Ecologists have devised approaches to address pressing issues facing the planet, such as the extent of diminished biodiversity and resource depletion. The approaches range from small-scale lab simulations of ecosystems to larger scale manipulations. In News stories and Articles beginning on page 313, Science examines these approaches and some of the answers they may yield to the “big questions.” [Photo: NRSC Ltd./Photo Researchers; collage by C. Faber Smith]