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On the cover: Memory of a prior exposure to environmental stress can increase the tolerance of subsequent exposures, which is vital for sessile organisms such as acroporid corals, pictured here. It appears that corals can acquire and maintain enhanced stress tolerance through a dose-dependent environmental memory, which may persist for multiple years. On pages 1011–1023, Serena Hackerott and colleagues discuss potential mechanisms behind this phenomenon and its potential to increase resilience under climate change. Cover image: ©RichardHoward/OceansOfImages.com 2014.