An aggressive storm that battered the coastal town of Blackpool, United Kingdom, in January 2007. Among other important changes now occurring in the marine environment, rising sea levels will create the need for increased protection from such severe storms. See the special section on our changing oceans beginning on page 1497.

Photo: Global Warming Images/Alamy
1494 Paraging MiRNAs Through Pairing
A. E. Pasquinelli
>> Research Article p. 1534; Report p. 1563

1495 HDL miR-ed Down by SREBP Introns
M. S. Brown et al.
>> Reports pp. 1566 and 1570

BREVIA

1529 Reassortment of Pandemic H1N1/2009 Influenza A Virus in Swine
D. Vijaykrishna et al.
Surveillance of pigs is important for tracking reassortment and emergence of influenza A viruses.
>> Science Podcast

RESEARCH ARTICLES

1530 Tropical Ocean Temperatures Over the Past 3.5 Million Years
T. D. Herbert et al.
Tropical sea surface temperatures were controlled more by atmospheric connections to glaciation cycles than by ocean circulation.
>> Perspective p. 1488; Report p. 1550

1534 Target RNA–Directed Trimming and Tailing of Small Silencing RNAs
S. L. Ameres et al.
Animal microRNAs have reduced complementarity to their targets to avoid their own degradation.
>> Perspective p. 1494; Report p. 1563

REPORTS

1540 Bose-Einstein Condensation in Microgravity
T. van Zoest et al.
Studies of atomic quantum states in free-fall conditions may provide ways to test predictions of general relativity.
>> Perspective p. 1491

1543 Hot-Electron Transfer from Semiconductor Nanocrystals
W. A. Tisdale et al.
Extraction of highly excited electrons formed in a light-absorbing material may make solar cells more efficient.

1547 Crossover from Single-Step Tunneling to Multistep Hopping for Molecular Triplet Energy Transfer
J. Vura-Weis et al.
Ultrafast absorption spectroscopy reveals a change in mechanism when sites for electron transfer become more distant.

1550 Subpolar Link to the Emergence of the Modern Equatorial Pacific Cold Tongue
A. Martinez-Garcia et al.
The eastern Pacific Ocean cold tongue appeared as Earth’s climate cooled and subpolar waters expanded in the Pleistocene.
>> Perspective p. 1488; Research Article p. 1530

1554 Radiocarbon-Based Chronology for Dynastic Egypt
C. Bronk Ramsey et al.
Many radiocarbon dates from short-lived plant remains provide a long and accurate chronology for ancient Egypt.
>> Perspective p. 1489

1558 Evolutionary Novelty Is Concentrated at the Edge of Coral Species Distributions
A. F. Budd and J. M. Pandolfi
Caribbean coral morphology documents that most coral evolution did not occur at the center of diversity of a species’ range.

1561 Identification of Germline Stem Cells in the Ovary of the Teleost Medaka
S. Nakamura et al.
Ongoing follicle production is maintained by stem cells in an adult fish ovary.

1563 Down-Regulation of a Host MicroRNA by a Herpesvirus saimiri Noncoding RNA
D. Cazalla et al.
A viral noncoding RNA regulates the level of a complementary host-cell microRNA.
>> Perspective p. 1494; Research Article p. 1534

1566 MicroRNA-33 and the SREBP Host Genes Cooperate to Control Cholesterol Homeostasis
S. H. Najafi-Shoushtari et al.

1570 MiR-33 Contributes to the Regulation of Cholesterol Homeostasis
K. J. Rayner et al.
A small noncoding RNA helps regulate cholesterol levels in mice.
>> Perspective p. 1495

1573 Development of the Hippocampal Cognitive Map in Preweanling Rats
R. F. Langston et al.
Some aspects of spatial cognition develop very early and may be determined innately.

1576 Development of the Spatial Representation System in the Rat
R. F. Langston et al.
Space and direction are already represented in specific neurons when rat pups navigate a location for the first time.
>> Perspective p. 1487

CONTENTS continued >>
Science 328 (5985), 1449-1584.