THOUGHTS ON MEETING
NOAA’S FUTURE MISSION WITH
SCIENCE AND TECHNOLOGY

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Editor-in-Chief
Science Journals
Mission Elements

• Weather and climate prediction
• Weather-related hazard warnings and risk mitigation (tornados, hurricanes)
• Ocean ecosystem protection and fisheries management
“NOAA’s core mission functions require satellite systems, ships, buoys, aircraft, research facilities, high-performance computing, and information management and distribution systems.”
CubeSats take flight
Cheap, miniature satellites democratize space p. 172
Powerful Tremor
Buildings collapse in nation’s capital from magnitude 7 quake.

Quake intensity
9 Violent
8
7
6
5 Light

*Based on the Modified Mercalli scale of earthquake intensity

Source: U.S. Geological Survey
Did You Feel It?

M6.0 earthquake
Central California
Sept. 28, 2004

M5.8 earthquake
Central Virginia
Aug. 23, 2011

Stars show epicenters and dots show where people reported at least weak shaking.
Google-loons!
Balloon Powered Internet for Everyone
From Peter Diamandis: *Abundance: the Future is Better Than You Think*
2015 PRIZE: OCEAN MAPPING

X-PRIZE