



NOAA weather satellites in operation

16

# NOAA at 50

## by the numbers

1 minute

Time it takes for NOAA's GOES-17 satellite to capture and transmit a high-definition image to forecasters and emergency responders

1.5 million

Forecasts and 50,000 warnings issued each year

76 billion  
Weather observations collected each year



675,000

Greenhouse gas measurements per year

321

Active-duty, uniformed NOAA Corps officers



480,906

PreK-12 students participated in NOAA-supported formal education programs



197 knots

Highest wind speed measured from NOAA's hurricane hunter planes



1,435

Unmanned aircraft system flights in 2019

279,863

Miles NOAA ships sailed in 2019 on research and survey missions



Value of shipped goods NOAA's navigation services supports each year

\$1.3 TRILLION



Year NOAA's predecessors began continuously observing sea levels

1854



Terabytes of oceanic, atmospheric, & geophysical data archived per month

26

1.9 million

Sq. kilometers of ocean floor mapped globally via NOAA Ship *Okeanos Explorer*

Nautical charts maintained for 95,000 miles of shoreline and 3.4 million sq. nautical miles of water



1,000+

600,000

Sq. miles of underwater parks protected in 14 national marine sanctuaries and 2 marine monuments



\$3.4 BILLION

Total economic value of coral reefs NOAA supports each year through conservation



164

Endangered or threatened species NOAA is responsible for conserving & recovering

Metric tons of marine debris removed since 2006

22,500+

47

Fish stocks rebuilt since 2000, including multiple species of salmon and crab

Depth at which NOAA researchers recorded the first sounds of the Mariana Trench

36,000 ft

50 Years of Science, Service, and Stewardship  
noaa.gov

September 2020

