



NOAA weather  
satellites in  
operation

16

1  
minute

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

# NOAA at 50

## by the numbers

1.5  
million

Forecasts and  
50,000 warnings  
issued each year

6.3 billion

Weather observations  
collected each day

CO<sub>2</sub>

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



229

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



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+

\$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+



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

36,000 ft



600,000

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



47

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

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

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