THE YEAR @NASA

# 2017

nasa.gov/2017

1
00:00:00,220 --> 00:00:02,430
From an historic eclipse across America …

2
00:00:02,430 --> 00:00:05,499
“Oh my gosh ... wow!!!”

3
00:00:05,499 --> 00:00:07,720
To a new goal for human exploration …

4
00:00:07,720 --> 00:00:11,410
“We will blaze new trails into that great
frontier.”

5
00:00:11,410 --> 00:00:17,160
The Moon became a focal point in 2017: A year
of groundbreaking discoveries and record-setting

6
00:00:17,160 --> 00:00:19,509
exploration at NASA.

7
00:00:19,509 --> 00:00:25,029
In October, the National Space Council announced
a new human exploration goal for NASA.

8
00:00:25,029 --> 00:00:31,119
We will return American astronauts to the
Moon, not only to leave behind footprints

9
00:00:31,119 --> 00:00:37,540
and flags, but to build the foundation we
need to send Americans to Mars and beyond.

10
00:00:37,540 --> 00:00:41,830
President Trump signed the NASA Transition
Authorization Act in March.

11
00:00:41,830 --> 00:00:47,760
While Vice President Pence visited three NASA
centers and saw our next Mars lander.

12
00:00:47,760 --> 00:00:53,170
More than 50 million people watched live online,
as NASA brought you the first coast-to-coast

13
00:00:53,170 --> 00:00:57,810
total solar eclipse in the U.S. in 99 years
--- with views you could only get …

14
00:00:57,810 --> 00:01:00,400
“Through the eyes of NASA!”

15
00:01:00,400 --> 00:01:05,530
In February we announced the most Earth-size
planets ever found in the habitable zone of

16
00:01:05,530 --> 00:01:08,110
a star outside our solar system.

17
00:01:08,110 --> 00:01:14,970
“The discovery gives us a hint that finding
a second Earth is not just a matter of 'if',

18
00:01:14,970 --> 00:01:15,970
but 'when'.”

19
00:01:15,970 --> 00:01:21,541
Cassini found a key ingredient for life in
the ocean on Saturn's moon Enceladus, while

20
00:01:21,541 --> 00:01:26,870
Hubble gathered possible evidence of subsurface
water on Jupiter’s moon Europa.

21
00:01:26,870 --> 00:01:30,270
Then -- Cassini concluded its long-running
mission in September …

22
00:01:30,270 --> 00:01:33,530

“… the signal from the spacecraft is gone.”

23
00:01:33,530 --> 00:01:39,300
Voyager fired its thrusters in interstellar
space after 37 years, after we celebrated

24
00:01:39,300 --> 00:01:41,700
its 40 years of exploration.

25
00:01:41,700 --> 00:01:46,860
A cigar-shaped asteroid became the first confirmed
“interstellar object” observed traveling

26
00:01:46,860 --> 00:01:48,670
through our solar system.

27
00:01:48,670 --> 00:01:53,600
And our James Webb Space Telescope completed
its final phase of cryogenic testing – a

28
00:01:53,600 --> 00:01:58,060
significant milestone in the telescope’s
journey to the launch pad.

29
00:01:58,060 --> 00:02:02,830
Our Space Launch System rocket and Orion spacecraft
are making progress toward human missions

30
00:02:02,830 --> 00:02:08,259
to the Moon and Mars, with the engines for
the rocket’s first flight ready to go.

31
00:02:08,259 --> 00:02:14,770
We’re also building on our 20 years of robotic
Mars exploration, as we prepare to send the

32
00:02:14,770 --> 00:02:18,209
InSight lander and Mars 2020 rover to the
Red Planet.

33
00:02:18,209 --> 00:02:25,560
“On behalf of our nation, and frankly on
behalf of the World, I'd like to congratulate

34
00:02:25,560 --> 00:02:26,560
you.”

35
00:02:26,560 --> 00:02:31,410
Veteran astronaut Peggy Whitson set a new
record for American time in space.

36
00:02:31,410 --> 00:02:36,130
We announced our newest class of astronaut
candidates, to help America take the next

37
00:02:36,130 --> 00:02:38,880
giant leap in space exploration.

38
00:02:38,880 --> 00:02:43,700
The International Space station received more
critical research and cargo from our commercial

39
00:02:43,700 --> 00:02:46,840
partners – SpaceX and Orbital ATK.

40
00:02:46,840 --> 00:02:52,510
While, Boeing and SpaceX made progress toward
launching astronauts to the station from American

41
00:02:52,510 --> 00:02:53,860
soil.

42
00:02:53,860 --> 00:02:58,660
And the Sierra Nevada Corporation successfully
completed a free-flight of its Dream Chaser,

43
00:02:58,660 --> 00:03:04,610
meeting a development milestone for commercial
crew, and helping prepare to resupply the

44
00:03:04,610 --> 00:03:05,610
station.

45
00:03:05,610 --> 00:03:08,140
We launched NOAA's Joint Polar Satellite
System-1 …

46
00:03:08,140 --> 00:03:11,490
"Making the U.S. a more weather-ready nation."

47
00:03:11,490 --> 00:03:15,739
… designed to improve the accuracy of weather
forecasts out to seven days.

48
00:03:15,739 --> 00:03:19,900
An intense string of major hurricanes was
seen from space.

49
00:03:19,900 --> 00:03:24,140
The storms caused major damage in the U.S.
and its territories.

50
00:03:24,140 --> 00:03:28,840
Our technology was used to assist in disaster
relief efforts --- following Hurricane Maria

51
00:03:28,840 --> 00:03:33,340
in Puerto Rico, and the massive earthquake
in Mexico City.

52
00:03:33,340 --> 00:03:38,860
Small spacecraft -- such as Cubesats -- continue
to push the boundaries of technology – demonstrating

53
00:03:38,860 --> 00:03:44,220
high speed laser communications, doing unique
medical research, and more.

54

00:03:44,220 --> 00:03:49,720
And engineers are studying a supersonic parachute system to help our Mars 2020 mission land

55
00:03:49,720 --> 00:03:51,300
safely.

56
00:03:51,300 --> 00:03:57,100
We moved a step closer to making quiet supersonic passenger jet travel over land a reality,

57
00:03:57,100 --> 00:04:01,170
with initial design of our Low Boom Flight Demonstration X-plane.

58
00:04:01,170 --> 00:04:05,760
And we demonstrated the traffic management systems we're developing to help the FAA

59
00:04:05,760 --> 00:04:11,599
integrate small uncrewed aircraft, also known as drones, into the national airspace.

60
00:04:11,599 --> 00:04:19,699
That's just some of the highlights from 2017 – For more details, visit nasa.gov/2017.

61
00:04:19,699 --> 00:04:24,380
Happy Holidays, thanks for watching – we're looking forward to sharing another year of