



TY@N

THIS YEAR @ NASA

2022





1
00:00:00,567 --> 00:00:02,902
In 2022, we helped humanity

2
00:00:02,902 --> 00:00:06,506
take a major step toward
a permanent presence in deep space.

3
00:00:06,773 --> 00:00:10,243
We captured
new awe-inspiring views of the universe …

4
00:00:10,543 --> 00:00:14,114
And we witnessed a first-of-its-kind
mission hit its mark.

5
00:00:14,481 --> 00:00:18,218
Here’s a look back at those
and other things we did this year at NASA.

6
00:00:18,918 --> 00:00:20,687
“And liftoff of Artemis I …”

7
00:00:20,687 --> 00:00:23,423
One of the biggest NASA moments of 2022

8
00:00:23,423 --> 00:00:27,660
was the historic launch of our Artemis I
flight test around the Moon –

9
00:00:27,660 --> 00:00:32,632
About 26 days later, we celebrated the mission’s return to Earth …

10
00:00:32,632 --> 00:00:33,266
Splashdown

11
00:00:33,266 --> 00:00:37,237
The latest chapter of NASA’s journey to the Moon comes to a close.

12

00:00:37,237 --> 00:00:42,075
We also asked companies for proposals
to develop and demonstrate astronaut

13
00:00:42,075 --> 00:00:47,213
Moon landers that can provide Moon landing
services beyond the Artemis III mission.

14
00:00:47,647 --> 00:00:51,651
And we identified 13 candidate
landing regions near the South

15
00:00:51,651 --> 00:00:55,922
Pole of the Moon, each with multiple
potential landing sites for Artemis III.

16
00:00:57,290 --> 00:01:02,529
We released the Webb Space Telescope's first full-color
images and spectroscopic data,

17
00:01:02,529 --> 00:01:05,465
showcasing Webb's ability to capture crisp,

18
00:01:05,465 --> 00:01:08,101
new views of our solar system and beyond.

19
00:01:08,968 --> 00:01:12,872
We successfully demonstrated the
first-ever planetary defense test –

20
00:01:12,872 --> 00:01:16,009
crashing a spacecraft into a moving asteroid,

21
00:01:16,009 --> 00:01:18,611
altering that asteroid's path of travel.

22
00:01:19,079 --> 00:01:23,283
And we helped establish the location
for a "drop off spot" on Mars

23
00:01:23,483 --> 00:01:27,287
where rock and soil samples
can be retrieved by a future mission

24
00:01:27,487 --> 00:01:29,989
and returned to Earth for study.

25
00:01:30,323 --> 00:01:33,259
2022 was the 22nd continuous year

26
00:01:33,259 --> 00:01:36,029
with humans aboard
the International Space Station.

27
00:01:36,429 --> 00:01:39,365
Congress passed a new law extending NASA's

28
00:01:39,365 --> 00:01:42,769
work on the station through
at least September 2030.

29
00:01:43,269 --> 00:01:46,973
Other human spaceflight activities
from 2022 include

30
00:01:47,107 --> 00:01:51,778
commercial partner Boeing's uncrewed
flight test to and from the station …

31
00:01:51,778 --> 00:01:56,449
Continued crew rotation flights to the
space station by partner SpaceX …

32
00:01:56,449 --> 00:02:00,954
NASA astronaut Mark Vande Hei's
U.S. record-setting stay in orbit ...

33
00:02:00,954 --> 00:02:05,391
And the first NASA-enabled private

astronaut mission to the space station …

34
00:02:06,659 --> 00:02:09,696
Our space technology activities in 2022

35
00:02:09,696 --> 00:02:13,266
included our CAPSTONE spacecraft's arrival
at the Moon

36
00:02:13,466 --> 00:02:18,071
to "test drive" the same unique orbit
that the Gateway lunar outpost will fly.

37
00:02:18,438 --> 00:02:23,243
We successfully demonstrated an inflatable
heat shield that could help land heavier

38
00:02:23,243 --> 00:02:27,380
payloads on worlds with atmospheres,
including Mars, and Earth.

39
00:02:27,914 --> 00:02:30,617
And the agency's first two-way laser relay

40
00:02:30,617 --> 00:02:33,786
communications system
began demonstrations.

41
00:02:33,786 --> 00:02:35,421
It could dramatically expand

42
00:02:35,421 --> 00:02:38,892
communications
capabilities for future space exploration.

43
00:02:39,859 --> 00:02:44,597
Work and missions that focused on Earth
this past year include a new space station

44

00:02:44,597 --> 00:02:45,899
instrument that studies

45
00:02:45,899 --> 00:02:49,836
how atmospheric mineral dust
affects the planet's temperature.

46
00:02:50,336 --> 00:02:53,740
We also released the first Earth
Information Center concept

47
00:02:54,007 --> 00:02:57,043
to provide the information, resources,
and tools

48
00:02:57,043 --> 00:03:00,346
decision
makers need to respond to climate change.

49
00:03:00,780 --> 00:03:05,318
And we helped celebrate the Landsat
program's 50 years of imaging Earth.

50
00:03:05,685 --> 00:03:09,522
The program has captured over 10 million
images since it began.

51
00:03:10,490 --> 00:03:12,392
On the aeronautics research front,

52
00:03:12,392 --> 00:03:16,996
our quiet supersonic X-59
aircraft was outfitted with the engine

53
00:03:17,163 --> 00:03:20,533
that will power it
to speeds up to Mach 1.4.

54
00:03:21,034 --> 00:03:25,471
Lithium-ion battery packs

installed in our all-electric X-57

55
00:03:25,471 --> 00:03:29,042
Maxwell aircraft
successfully powered the plane’s motors.

56
00:03:29,442 --> 00:03:31,177
And we continued partnerships

57
00:03:31,177 --> 00:03:34,981
to develop a system to safely transport
people and cargo

58
00:03:35,181 --> 00:03:39,919
using revolutionary new aircraft
that are only just now becoming possible.

59
00:03:40,887 --> 00:03:43,890
NASA STEM-related activities in 2022

60
00:03:43,890 --> 00:03:48,228
included the Lunabotics Junior Contest,
which featured our Artemis missions.

61
00:03:48,528 --> 00:03:50,997
We announced the two national winners
of the competition.

62
00:03:50,997 --> 00:03:56,402
An event hosted by the Vice President
featured NASA STEM education activities,

63
00:03:56,736 --> 00:03:59,272
a special screening of the Disney Pixar
film,

64
00:03:59,272 --> 00:04:02,041
“Lightyear,” and several NASA astronauts.

65

00:04:02,141 --> 00:04:03,743
“¡Despegue!”

66
00:04:03,743 --> 00:04:05,912
And we continued sharing knowledge about

67
00:04:05,912 --> 00:04:08,982
NASA missions and activities
through a variety

68
00:04:08,982 --> 00:04:13,853
of Spanish language social media accounts
and websites in 2022.

69
00:04:13,853 --> 00:04:15,855
“We choose to go to the Moon …”

70
00:04:15,855 --> 00:04:19,525
The 60th anniversary of John F.
Kennedy’s historic speech at

71
00:04:19,525 --> 00:04:24,230
Rice University was one of the most notable
NASA-related anniversaries.

72
00:04:24,397 --> 00:04:26,733
The speech recommitted the nation
to the goal of

73
00:04:26,733 --> 00:04:28,768
landing astronauts on the Moon

74
00:04:28,768 --> 00:04:30,737
and returning them safely to Earth.

75
00:04:31,070 --> 00:04:36,042
President Kennedy knew that vision would be hard – not easy.

76
00:04:36,042 --> 00:04:39,846

And today, in “Space City,”

77
00:04:39,846 --> 00:04:43,683
the “Artemis Generation” stands ready.

78
00:04:43,683 --> 00:04:52,458
Ready to return humanity to the Moon and then to take us further than ever before – to Mars.

79
00:04:52,458 --> 00:04:54,260
[applause]

80
00:04:54,260 --> 00:04:56,763
Year in and year out, the work we do

81
00:04:56,763 --> 00:04:59,532
that extends our reach into the cosmos,

82
00:04:59,532 --> 00:05:01,634
results in breakthrough discoveries,

83
00:05:01,934 --> 00:05:07,440
and turns science fiction into science
fact is “work done” to benefit you!

84
00:05:07,707 --> 00:05:10,910
Those are some of the NASA activities
from 2022.

85
00:05:11,311 --> 00:05:15,415
For more details, visit nasa.gov/2022.

86
00:05:15,748 --> 00:05:16,983
Thanks for watching.

87
00:05:16,983 --> 00:05:19,919
Please have a safe, healthy,
and happy holiday season,