from an historic eclipse across America

to a new goal for human exploration we

blazed new trails into that great

frontier the moon became a focal point

in 2017 a year of groundbreaking

discoveries and record-setting

exploration at NASA in October the

National Space Council announced a new

human exploration goal for NASA we will

return American astronauts to the moon

not only to leave behind footprints and

flags but to build the foundation we

need to send Americans to Mars and

beyond
president Trump signed the NASA transition Authorization Act in March while vice president Pence visited three NASA centers and saw our next Mars Landers more than 50 million people watched the live online as NASA brought to the first coast-to-coast total solar eclipse in the US and 99 years with views you could only get through the eyes of NASA in February we announced the most earth-sized planets ever found in the habitable zone of a star outside our solar system the discovery gives us a hint that
finding a second earth it's not just a

matter of if but when Cassini found a

key ingredient for life in the ocean on

Saturn's moon Enceladus while Hubble

gathered possible evidence of subsurface water on Jupiter's moon Europa

then Cassini concluded its long-running mission in September Voyager fired its

thrusters in interstellar space after 37 years after we celebrated its 40 years of exploration a cigar-shaped asteroid became the first confirmed interstellar object observed traveling through our solar system and our James Webb Space
Telescope completed its final phase of cryogenic testing a significant milestone in the telescope's journey to the launch pad.

Our Space Launch System rocket and Orion spacecraft are making progress toward here and missions to the Moon and Mars with the engines for the Rocket's first flight ready to go.

We're also building on our 20 years of robotic Mars exploration as we prepare to send the Insight Lander and Mars 2020 Rover to the Red Planet on behalf of our nation and frankly on behalf of the
world I’d like to congratulate you

veteran astronaut Peggy Whitson set a

new record for American time in space we

announced our newest class of astronaut

candidates to help America take the next

International Space Station received

more critical research and cargo from

our commercial partners SpaceX and

orbital ATK while Boeing and SpaceX made

progress toward launching astronauts to

the station from American soil and the

Sierra Nevada Corporation successfully

completed a free flight of its Dream
Chaser meeting a development milestone

for Commercial Crew and helping prepare to resupply the station we launched a

Noah's Joint polar satellite system one making the u.s. warm weather ready

nation designed to improve the accuracy of weather forecasts out to seven days

an intense string of major hurricanes was seen from space

the storms caused major damage in the US and its territories our technology was used to assist in disaster relief

efforts following Hurricane Maria in Puerto Rico and the massive earthquake
in Mexico City small spacecraft such as Cube sets continue to push the boundaries of technology demonstrating high speed laser communications doing unique medical research and more and the engineers are studying a supersonic parachute system to help our Mars 2020 mission land safely we moved a step closer to making quiet supersonic passenger jet travel over land a reality with initial design of our low boom flight demonstration explained and we demonstrated the traffic management systems we're developing to help the FAA
integrate small uncrewed aircraft also

00:04:08,199 --> 00:04:11,519
known as drones into the national

00:04:10,539 --> 00:04:14,049
airspace

00:04:11,520 --> 00:04:17,228
that's just some of the highlights from

00:04:14,050 --> 00:04:20,870
2017 for more details visit nasa.gov

00:04:17,228 --> 00:04:22,490
slash 2017 happy holidays

00:04:20,870 --> 00:04:24,410
thanks for watching we're looking

00:04:22,490 --> 00:04:26,990
forward to sharing another year of

00:04:24,410 --> 00:04:31,180
exciting exploration and groundbreaking

00:04:26,990 --> 00:04:31,180
discoveries with you in 2018