



TW@N

THIS WEEK @ NASA

1
00:00:00,089 --> 00:00:01,870
The release of NASA's budget request ...

2
00:00:01,870 --> 00:00:03,649
A new set of Earth-focused missions ...

3
00:00:03,649 --> 00:00:08,180
And ... new research findings about Jupiter's
moon Europa ... a few of the stories to tell

4
00:00:08,180 --> 00:00:12,400
you about – This Week at NASA!

5
00:00:12,400 --> 00:00:17,170
On May 28, NASA Administrator Senator Bill
Nelson and other senior officials briefed

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00:00:17,170 --> 00:00:23,850
the media on the Biden-Harris Administration's
fiscal year 2022 funding request for the agency,

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00:00:23,850 --> 00:00:27,330
following the White House's release of the
full funding request.

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00:00:27,330 --> 00:00:32,660
Details and supporting information about the
\$24.8 billion funding request are available

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00:00:32,660 --> 00:00:33,980
online at nasa.gov/budget.

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00:00:33,980 --> 00:00:40,500
NASA's Earth System Observatory will be
a new set of Earth-focused missions using

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00:00:40,500 --> 00:00:47,070
individual satellites to provide key, next-generation
data to help mitigate climate change, protect

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00:00:47,070 --> 00:00:53,050
communities in the face of natural disasters,
and improve real-time agricultural processes.

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00:00:53,050 --> 00:00:57,970
The satellites will complement each other
and work in tandem to create a 3D, holistic

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00:00:57,970 --> 00:01:02,770
view of Earth and an unprecedented understanding
of the planet's climate system.

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00:01:02,770 --> 00:01:06,389
For more information visit: nasa.gov/earth.

16
00:01:06,389 --> 00:01:10,819
New research and 3D computer modeling show
that in the recent past, volcanic activity

17
00:01:10,819 --> 00:01:16,369
may have occurred on the seafloor of Jupiter's
moon Europa – and it may still be happening.

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00:01:16,369 --> 00:01:20,799
This new work shows how there may be enough
internal heat from within the moon to partially

19
00:01:20,799 --> 00:01:26,189
melt its rocky layer, a process that could
feed volcanoes on the ocean floor.

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00:01:26,189 --> 00:01:31,270
NASA's upcoming Europa Clipper mission,
targeted for launch in 2024, may shed light

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00:01:31,270 --> 00:01:32,820
on these recent findings.

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00:01:32,820 --> 00:01:38,849

May 25 marked the 60th anniversary of President John F. Kennedy's "Urgent National Needs"

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00:01:38,849 --> 00:01:43,850

speech to a joint session of Congress, during which he sought support of a bold endeavor

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00:01:43,850 --> 00:01:48,619

to put the U.S. undisputedly in the lead of the space race with the Soviet Union.

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00:01:48,619 --> 00:01:54,520

"I believe that this nation should commit itself to achieving the goal, before this

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00:01:54,520 --> 00:02:00,219

decade is out, of landing a man on the Moon and returning him safely to the Earth."

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00:02:00,219 --> 00:02:04,920

Just a little more than 8 years later, Kennedy's vision was realized when the U.S. became the

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00:02:04,920 --> 00:02:10,740

first nation to land humans on the Moon and safely return them to Earth with Apollo 11.

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00:02:10,740 --> 00:02:15,400

On May 26 there was a triple celestial treat in the skies for some of us on Earth.

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00:02:15,400 --> 00:02:19,780

There was a total lunar eclipse - the first in nearly two and a half years.

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00:02:19,780 --> 00:02:24,750

Added to that was the Moon's reddish tint caused by the eclipse, and to top it off,

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00:02:24,750 --> 00:02:29,150

it all occurred during a full Moon at its
closest approach to Earth this year – commonly

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00:02:29,150 --> 00:02:30,720

referred to as a supermoon.

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00:02:30,720 --> 00:02:36,329

We haven't had a total lunar eclipse occur
with a supermoon in almost six years.