



1

00:00:00,939 --> 00:00:03,580

Some very complex work outside the space station

...

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00:00:03,580 --> 00:00:09,000

Key milestones for our Artemis program ...

And a fitting tribute for an historic flyby

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00:00:09,000 --> 00:00:14,530

... a few of the stories to tell you about

– This Week at NASA!

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00:00:14,530 --> 00:00:20,270

On Nov. 15 our Andrew Morgan and Luca Parmitano
of the European Space Agency, ventured outside

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00:00:20,270 --> 00:00:25,730

the International Space Station to begin a
series of spacewalks to repair a cosmic ray

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00:00:25,730 --> 00:00:30,380

detector called the Alpha Magnetic Spectrometer,
or AMS.

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00:00:30,380 --> 00:00:35,449

The complex spacewalks – designed to fix
a coolant leak and upgrade AMS' cooling

8

00:00:35,449 --> 00:00:40,629

system – involve intricate cutting, splicing
and reconnecting of cooling tubes, and power

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00:00:40,629 --> 00:00:42,730

and data cables.

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00:00:42,730 --> 00:00:46,180

Astronauts have never cut and reconnected
fluid lines during a spacewalk.

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00:00:46,400 --> 00:00:53,120

These AMS spacewalks are considered the most complex of their kind since the Hubble Space Telescope se

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00:00:54,620 --> 00:00:59,880

Vice President Mike Pence and our Administrator
Jim Bridenstine, visited our Ames Research

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00:00:59,889 --> 00:01:05,430

Center in California's Silicon Valley on
Nov. 14, to highlight the work being done

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00:01:05,430 --> 00:01:10,810

at Ames in support of our Artemis program,
which plans to return astronauts to the surface

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00:01:10,810 --> 00:01:11,810

of the Moon.

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00:01:11,810 --> 00:01:16,300

"You here at Ames are going to be a critical
part at helping us develop the technologies

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00:01:16,300 --> 00:01:20,590

to live on the Moon – not for days, but
for months and even years.

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00:01:20,590 --> 00:01:24,520

We'll learn how to make use of all the resources
the Moon has to offer."

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00:01:24,520 --> 00:01:29,060

One of the facilities highlighted during the
event was the Vertical Motion Simulator.

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00:01:29,060 --> 00:01:33,980

This facility will have an integral role in
developing a lunar lander for Artemis – which

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00:01:33,980 --> 00:01:39,010

will land the first woman and next man on

the Moon by 2024.

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00:01:39,010 --> 00:01:44,360

At our Michoud Assembly Facility in New Orleans, all four RS-25 engines have been attached

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00:01:44,360 --> 00:01:50,260

to the core stage of our Space Launch System, or SLS rocket, in preparation for Artemis I,

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00:01:50,260 --> 00:01:55,700

the first integrated uncrewed flight test of SLS and our Orion spacecraft.

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00:01:55,700 --> 00:01:59,920

To complete assembly of the rocket stage, engineers and technicians will integrate the

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00:01:59,920 --> 00:02:03,550

propulsion and electrical systems within the structure.

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00:02:03,550 --> 00:02:08,420

Meanwhile, at our Kennedy Space Center in Florida, the Orion crew and service module

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00:02:08,420 --> 00:02:14,390

stack for Artemis I was lifted out of the Final Assembly and Test cell on Nov. 11, where

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00:02:14,390 --> 00:02:18,590

it has been since July, for mating and closeout processing.

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00:02:18,590 --> 00:02:23,390

Engineers will now prepare Orion for transport to our Plum Brook Station in Sandusky, Ohio,

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00:02:23,390 --> 00:02:29,790

for its next phase of testing to certify the

complete vehicle for flight.

32
00:02:29,790 --> 00:02:36,640
The Kuiper Belt object formerly known as 2014
MU69 has been officially named Arrokoth, a

33
00:02:36,640 --> 00:02:41,630
Native American term meaning “sky” in
the Powhatan/Algonquian language.

34
00:02:41,630 --> 00:02:46,910
The naming was announced at a Nov. 12 ceremony
at our headquarters in Washington, DC, as

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00:02:46,910 --> 00:02:52,880
a tribute to the record-breaking New Year’s
Day 2019 flyby of Arrokoth by our New Horizons

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00:02:52,880 --> 00:02:57,500
spacecraft – which was some four billion
miles from Earth at the time.

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00:02:57,500 --> 00:03:02,640
With consent from Powhatan Tribal elders and
representatives, our New Horizons team proposed

38
00:03:02,640 --> 00:03:08,130
the name to the international authority that
names Kuiper Belt objects.

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00:03:08,130 --> 00:03:12,640
In recognition of Veterans Day, our Marshall
Space Flight Center in Huntsville, Alabama,

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00:03:12,640 --> 00:03:17,700
recently welcomed commanding Army General
James Dickinson for a visit to the center’s

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00:03:17,700 --> 00:03:20,060
Payload Operations Integration Center.

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00:03:20,060 --> 00:03:25,130

While there, he had a space-to-ground conversation with astronaut, and fellow soldier Andrew

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00:03:25,130 --> 00:03:30,840

Morgan – an active-duty emergency physician – about Morgan’s experiences aboard the

44

00:03:30,840 --> 00:03:32,459

International Space Station.

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00:03:32,459 --> 00:03:37,270

NASA salutes all active-duty personnel and veterans of our Armed Forces and would like

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00:03:37,270 --> 00:03:39,630

to thank them for their service to our country.