
Ф44 СБЛИЖЕНИЕ
Т=13:20:21
ЗАПР СБ
ОСК ГСО 12
Б1
А 8 3К
ωx 0,000°/с
ДУС12 1
Vт 0,16
ωy 0,044°/с
Р 10,0
ωz 0,061°/с
С0.00000
РАЗВОРОТ
РС
ϑ 0,00°
ψ 0,00°
ϑ 0,00°
ω 0,00°/с
ϑ 0,00°/с
P 0,000
P 0,00
0,000КМ
ΩУ 0,000 0,000
0,00М/С
Ωz 0,000 0,000
ИН:ЗАПРЕТ ИКВ

1
00:00:01,000 --> 00:00:03,800
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:03,800 --> 00:00:11,000
On Aug. 13, NASA conducted a test firing of
the RS-25 rocket engine at Stennis Space Center.

3
00:00:11,000 --> 00:00:16,920
The 535 second test was the sixth in the current
series of seven developmental tests of the

4
00:00:16,920 --> 00:00:18,800
former space shuttle main engine.

5
00:00:18,800 --> 00:00:23,970
Four RS-25 engines will power the core stage
of the new Space Launch System (SLS) rocket,

6
00:00:23,970 --> 00:00:28,390
which will carry humans deeper into space
than ever before, including to an asteroid

7
00:00:28,390 --> 00:00:29,440
and Mars.

8
00:00:29,440 --> 00:00:35,020
A pre-test NASA Social featured a discussion
with deputy administrator Dava Newman and

9
00:00:35,020 --> 00:00:41,200
other behind-the-scenes perspectives for the
agency’s social media followers.

10
00:00:41,200 --> 00:00:46,170
On Aug. 10, astronauts onboard the International
Space Station had space grown vegetables on

11
00:00:46,170 --> 00:00:48,450

their menu for the first time ever.

12
00:00:48,450 --> 00:00:56,129
The red romaine lettuce they ate was produced
by NASA’s Deployable Vegetable Production

13
00:00:56,129 --> 00:01:01,390
System, or Veggie experiment – which provides
lighting and nutrients to grow a variety of

14
00:01:01,390 --> 00:01:03,280
plants in space.

15
00:01:03,280 --> 00:01:07,290
The experiment could help astronauts grow
food on the journey to Mars, and could help

16
00:01:07,290 --> 00:01:10,830
farmers grow crops more efficiently on Earth.

17
00:01:10,830 --> 00:01:15,120
While veggies were sampled inside the space
station, Russian cosmonauts Gennady Padalka

18
00:01:15,120 --> 00:01:19,090
and Mikhail Kornienko conducted a spacewalk
on the outside.

19
00:01:19,090 --> 00:01:24,500
The pair retrieved an experiment deployed
in 2013 to study space plasma, replaced and

20
00:01:24,500 --> 00:01:29,500
upgraded communications equipment on the Russian
segment of the ISS, cleaned residue from the

21
00:01:29,500 --> 00:01:34,440
windows of the Russian service module, and
conducted a complete photographic inspection

22
00:01:34,440 --> 00:01:36,260
of the station exterior.

23
00:01:36,260 --> 00:01:41,180
It was the 188th spacewalk in support of space station assembly.

24
00:01:41,180 --> 00:01:45,400
Six months after arriving with three tons of food, fuel and supplies, a Russian Progress

25
00:01:45,400 --> 00:01:50,140
cargo craft undocked from the station on Aug. 14.

26
00:01:50,140 --> 00:01:54,690
Another Progress, which arrived in July, remains docked to the station – with yet another

27
00:01:54,690 --> 00:01:59,850
scheduled to launch Oct. 1 loaded with additional supplies and cargo.

28
00:01:59,850 --> 00:02:04,380
Astronomers have found the smallest supermassive black hole ever detected in the center of

29
00:02:04,380 --> 00:02:05,750
a galaxy.

30
00:02:05,750 --> 00:02:10,720
The discovery of this interstellar oxymoron, made with NASA’s Chandra X-ray Observatory

31
00:02:10,720 --> 00:02:16,200
and the Clay Telescope in Chile, could provide clues to how larger black holes formed along

32
00:02:16,200 --> 00:02:20,920

with their host galaxies 13 billion years
or more in the past.

33
00:02:20,920 --> 00:02:25,349
This black hole is estimated to be less than
half the mass of the previously found smallest

34
00:02:25,349 --> 00:02:27,720
black hole at the center of a galaxy.

35
00:02:27,720 --> 00:02:33,920
Aug. 12 marked the 10-year anniversary of
the launch of NASA's Mars Reconnaissance Orbiter,

36
00:02:33,920 --> 00:02:37,250
on its mission to study the history of water
on Mars.

37
00:02:37,250 --> 00:02:41,319
While other Mars missions have shown that
water flowed across the Martian surface in

38
00:02:41,319 --> 00:02:46,370
the past, MRO’s extreme close up imagery
looks for proof of whether water was ever

39
00:02:46,370 --> 00:02:49,069
around long enough to sustain life.

40
00:02:49,069 --> 00:02:55,150
MRO completed its primary science phase in
2008, and continues to yield “bonus science”

41
00:02:55,150 --> 00:03:00,220
on its second extended mission, which began
in 2012.

42
00:03:00,220 --> 00:03:04,920
The sunshield for NASA's James Webb Space
Telescope was inspected recently at a Northrop

43
00:03:04,920 --> 00:03:07,680
Grumman clean room in southern California.

44
00:03:07,680 --> 00:03:14,400
The sunshield uses an effective sun protection
factor, or SPF, of 1,000,000 to keep the observatory's

45
00:03:14,400 --> 00:03:16,750
sensitive instruments from overheating.

46
00:03:16,750 --> 00:03:21,460
By comparison -- sunscreen for humans typically
has an SPF of 8 to 50.

47
00:03:21,460 --> 00:03:27,650
The annual Perseid meteor shower took place
during the overnight hours of August 12 and

48
00:03:27,650 --> 00:03:31,440
Aug. 13, with live coverage from Marshall
Space Flight Center..

49
00:03:31,440 --> 00:03:36,980
The Perseids are associated with the comet
Swift-Tuttle, which orbits the sun every 133

50
00:03:36,980 --> 00:03:38,030
years.

51
00:03:38,030 --> 00:03:42,520
Every August, the Earth passes through a cloud
of the comet's debris, which burns up in

52
00:03:42,520 --> 00:03:47,370
Earth's atmosphere -- creating one of the
best meteor showers of the year.

53
00:03:47,370 --> 00:03:49,519

And that’s what’s up this week @NASA …