



1
00:00:00,320 --> 00:00:01,320
KEPLER: REMINDING THE WORLD WHY WE CONTINUE
TO EXPLORE

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00:00:01,320 --> 00:00:03,360
This week NASA is holding a conference of
400 scientists

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00:00:03,360 --> 00:00:07,050
from around the world to discuss the findings
that continue to

4
00:00:07,050 --> 00:00:10,160
emerge from our amazing Kepler mission.

5
00:00:10,160 --> 00:00:13,450
These scientists, both inside and outside
government, will

6
00:00:13,450 --> 00:00:17,420
continue to explore potential planets outside
our solar system

7
00:00:17,420 --> 00:00:21,060
for years to come based on the spacecraft's
groundbreaking

8
00:00:21,060 --> 00:00:22,400
work.

9
00:00:22,400 --> 00:00:25,900
Conference participants are reporting many
amazing findings.

10
00:00:25,900 --> 00:00:29,750
Among these include a stunning result, which
found that there

11
00:00:29,750 --> 00:00:32,660

maybe many more Earth-like planets than previously thought

12
00:00:32,660 --> 00:00:36,600
in the Milky Way that reside in the "habitable zone."

13
00:00:36,600 --> 00:00:40,230
The science that Kepler has made possible reminds us just

14
00:00:40,230 --> 00:00:44,649
how important NASA's work is to understanding our universe

15
00:00:44,649 --> 00:00:48,300
– and why we need to continue to push the boundaries of

16
00:00:48,300 --> 00:00:49,670
exploration.

17
00:00:49,670 --> 00:00:52,780
Kepler was designed to survey our region of the Milky Way

18
00:00:52,780 --> 00:00:57,680
galaxy to discover Earth-size and smaller planets in or near

19
00:00:57,680 --> 00:01:01,030
the habitable zone and determine what fraction of the

20
00:01:01,030 --> 00:01:05,340
hundreds of billions of stars in our galaxy might have such

21
00:01:05,340 --> 00:01:06,460
planets.

22
00:01:06,460 --> 00:01:09,110
Although the Kepler mission ceased operation
earlier this

23
00:01:09,110 --> 00:01:14,600
year, we've already confirmed 167 planets
orbiting stars in

24
00:01:14,600 --> 00:01:18,500
other solar systems, with the planet candidates
list currently

25
00:01:18,500 --> 00:01:21,780
standing at 3538.

26
00:01:21,780 --> 00:01:25,549
As NASA plans missions to an asteroid and
Mars, and just

27
00:01:25,549 --> 00:01:29,380
marked 13 years of continuous habitation aboard
the

28
00:01:29,380 --> 00:01:32,810
International Space Station, we're learning
to live and work off

29
00:01:32,810 --> 00:01:35,490
planet for the long term.

30
00:01:35,490 --> 00:01:39,439
We're working hard to revolutionize humanity's
ability to reach

31
00:01:39,439 --> 00:01:42,719
and live in other places than our home planet,
and these

32

00:01:42,719 --> 00:01:46,750

Kepler findings are a fascinating reminder
that there may be

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00:01:46,750 --> 00:01:50,590

other worlds like ours that could also harbor
life or be

34

00:01:50,590 --> 00:01:51,869

habitable.

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00:01:51,869 --> 00:01:55,470

While we continue to learn more about these
worlds, missions

36

00:01:55,470 --> 00:02:00,469

like Juno and New Horizons will magnify our
understandings

37

00:02:00,469 --> 00:02:02,540

of worlds closer to us.

38

00:02:02,540 --> 00:02:06,490

MAVEN, launching later this month, will add
to our growing

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00:02:06,490 --> 00:02:10,080

body of knowledge about Mars in preparation
for a human

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00:02:10,080 --> 00:02:12,720

mission there in the 2030s.

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00:02:12,720 --> 00:02:16,640

Before that, NASA plans to locate and redirect
an asteroid to

42

00:02:16,640 --> 00:02:20,250

lunar orbit where astronauts can visit one
of these ancient

43
00:02:20,250 --> 00:02:24,660
building blocks of the solar system by 2025.

44
00:02:24,660 --> 00:02:28,250
These incredible achievements would have been
unthinkable

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00:02:28,250 --> 00:02:31,750
just a few years ago, but with our steady
and strategic

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00:02:31,750 --> 00:02:35,970
investments in science, technology and human
exploration we

47
00:02:35,970 --> 00:02:39,410
continue to build a space program that leads
the world in

48
00:02:39,410 --> 00:02:42,130
scientific discovery and technology.

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00:02:42,130 --> 00:02:46,940
I congratulate the Kepler team on their continued
discoveries

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00:02:46,940 --> 00:02:50,510
and look forward to science and exploration
working together