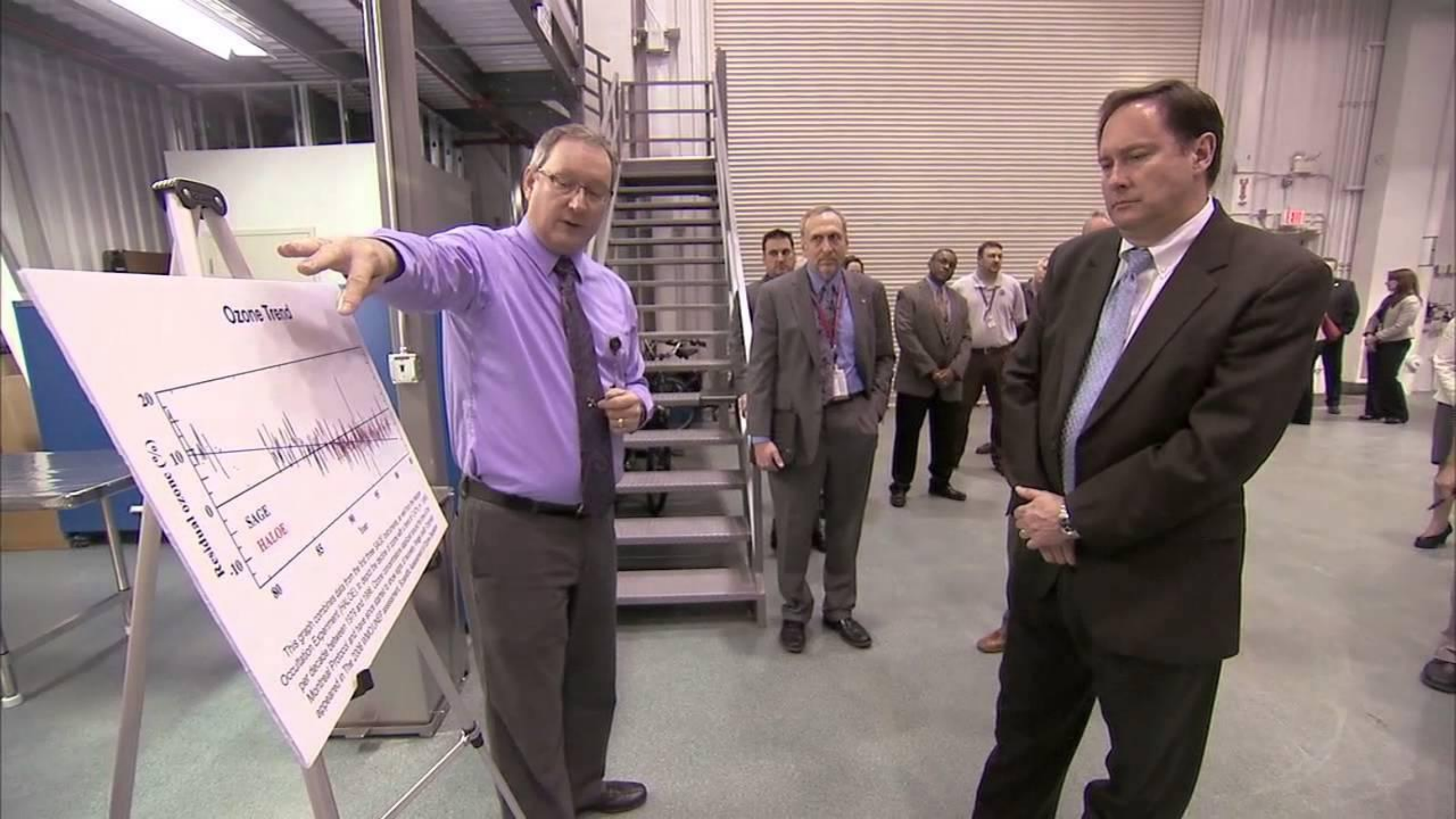
Ozone Trend
20
10
0
-10
Residual ozone (%)
SAGE
HALOE

1
00:00:00,909 --> 00:00:04,930
"Here's some of the stories trending This
Week at NASA!"

2
00:00:04,930 --> 00:00:09,809
NASA's Cassini spacecraft and the agency's
Deep Space Network have yielded evidence that

3
00:00:09,809 --> 00:00:15,299
a large underground ocean of water does indeed
exist on Saturn's moon Enceladus -- a theory

4
00:00:15,299 --> 00:00:17,760
formulated in 2005.

5
00:00:17,760 --> 00:00:24,039
Radio frequency and gravity measurements taken
as Cassini flies by the moon suggest a large,

6
00:00:24,039 --> 00:00:29,970
possibly regional ocean about 6 miles deep,
situated beneath an ice shell about 19 to

7
00:00:29,970 --> 00:00:31,970
25 miles thick.

8
00:00:31,970 --> 00:00:36,350
Evidence of the below-ground ocean validates
the inclusion of Enceladus to the list of

9
00:00:36,350 --> 00:00:41,790
possible places in our solar system to contain
microbial life.

10
00:00:41,790 --> 00:00:44,309
Having completed all its main mission objectives...

11
00:00:44,309 --> 00:00:50,050
NASA's Lunar Atmosphere and Dust Environment

Explorer or LADEE spacecraft is in the extended

12
00:00:50,050 --> 00:00:54,559
phase of its mission -- orbiting a mile or
two above the surface of our moon.

13
00:00:54,559 --> 00:00:59,910
LADEE is in this super-low orbit to gather
valuable clues about the moon's dust environment

14
00:00:59,910 --> 00:01:03,340
and its tenuous atmosphere, known as an exosphere.

15
00:01:03,340 --> 00:01:07,980
Per planning, the mission will end when LADEE
impacts the moon's surface sometime between

16
00:01:07,980 --> 00:01:10,910
now and late April.

17
00:01:10,910 --> 00:01:15,250
During a Women's History Month event in Northern
Virginia, NASA Administrator Charlie Bolden

18
00:01:15,250 --> 00:01:20,470
spoke to members of Women in Aerospace about
the contributions women have made to the American

19
00:01:20,470 --> 00:01:25,930
aerospace industry and how NASA continues
to benefit from the work of women across the

20
00:01:25,930 --> 00:01:26,930
agency.

21
00:01:26,930 --> 00:01:31,460
He also thanked the organization for promoting
science, technology, engineering and math,

22

00:01:31,460 --> 00:01:37,860
or STEM programs and encouraged continued
support of NASA's proposed Fiscal Year 2015

23
00:01:37,860 --> 00:01:44,880
budget -- to help the agency maintain its
leadership in science and aerospace technology.

24
00:01:44,880 --> 00:01:48,740
Associate Administrator Robert Lightfoot also
discussed the budget --- at a meeting with

25
00:01:48,740 --> 00:01:51,410
employees at Langley Research Center.

26
00:01:51,410 --> 00:01:55,520
During the visit, Lightfoot and new Chief
Technologist David Miller also viewed the

27
00:01:55,520 --> 00:02:03,570
hardware for the Stratospheric Aerosol and
Gas Experiment III on ISS -- or "Sage-3" experiment.

28
00:02:03,570 --> 00:02:08,090
Scheduled to launch to the International Space
Station on a SpaceX Dragon spacecraft in early

29
00:02:08,090 --> 00:02:15,700
2015, Sage-3 will measure ozone, water vapor
and aerosols in Earth's atmosphere.

30
00:02:15,700 --> 00:02:20,740
At the Spring 2014 Aeronautics and Space Engineering
Board meetings in Washington, Administrator

31
00:02:20,740 --> 00:02:26,170
Bolden gave an update on NASA's big picture
activities and plans under the FY15 budget

32
00:02:26,170 --> 00:02:27,170

request.

33
00:02:27,170 --> 00:02:32,360
Meanwhile, several other agency officials
spoke about NASA activities in specific areas

34
00:02:32,360 --> 00:02:36,880
-- including Aeronautics Research, Space Technology
and Science.

35
00:02:36,880 --> 00:02:43,110
The ASEB was established in 1967 to focus
talents and energies of the engineering community

36
00:02:43,110 --> 00:02:49,630
on significant aerospace policies, programs
and issues of national importance.

37
00:02:49,630 --> 00:02:54,260
During an event at NASA headquarters, a group
of international students in a global fellowship

38
00:02:54,260 --> 00:02:59,860
program presented studies they put together,
using satellite data and mapping technologies,

39
00:02:59,860 --> 00:03:02,910
to address climate change impacts in their
regions.

40
00:03:02,910 --> 00:03:08,610
Sponsored by NASA, the U.S. Agency for International
Development and the Association of American

41
00:03:08,610 --> 00:03:14,890
Geographers, the My Community, Our Earth / SERVIR
program supports long-term training of young

42
00:03:14,890 --> 00:03:20,569
scholars in the use of space-based observations,

to address climate change issues in developing

43
00:03:20,569 --> 00:03:22,680
regions.

44
00:03:22,680 --> 00:03:28,160
Kennedy Space Center Director Bob Cabana officially
welcomed PaR Systems, Incorporated of Shoreview,

45
00:03:28,160 --> 00:03:34,840
Minnesota as a new partner during an April
2 ceremony at Cape Canaveral's Hangar N facility.

46
00:03:34,840 --> 00:03:39,630
NASA wants to retain the unique inventory
of nondestructive test and evaluation equipment

47
00:03:39,630 --> 00:03:44,390
at the facility and the capability for current
and future mission support.

48
00:03:44,390 --> 00:03:49,600
PaR Systems will operate Hangar N at its own
expense and perform nondestructive testing

49
00:03:49,600 --> 00:03:54,640
and other related aerospace, marine and industrial
products services.

50
00:03:54,640 --> 00:03:59,600
Partnerships between NASA and other organizations
are a key element in Kennedy's transition

51
00:03:59,600 --> 00:04:04,580
from a historically government-only launch
facility to a multi-user spaceport for both

52
00:04:04,580 --> 00:04:07,590
government and commercial customers.

53
00:04:07,590 --> 00:04:09,430
And that's what's up this week @NASA ...