1
00:00:00,520 --> 00:00:02,850
"Dealing with a buggy situation in the air
..."

2
00:00:02,850 --> 00:00:06,890
"A next generation weather satellite is a
step closer to launch ..."

3
00:00:06,890 --> 00:00:12,500
"And a comet's close encounter with the Sun
... Those are some of the stories trending,

4
00:00:12,500 --> 00:00:15,610
This Week at NASA!"

5
00:00:15,610 --> 00:00:21,990
On Thanksgiving Day, Comet ISON passed about
685-thousand miles above the surface of the

6
00:00:21,990 --> 00:00:27,840
sun -- the comet's closest approach on a projected
path around our solar system's star.

7
00:00:27,840 --> 00:00:32,290
Data from this close encounter is providing
clues about the comet and its interaction

8
00:00:32,290 --> 00:00:36,890
with the solar atmosphere -- which can help
us understand more about the sun itself.\h

9
00:00:36,890 --> 00:00:43,710
A Russian Progress cargo spacecraft, stocked
with almost three tons of food, supplies and

10
00:00:43,710 --> 00:00:48,290
holiday items for the International Space
Station, launched from the Baikonur Cosmodrome.

11

00:00:48,290 --> 00:00:54,460
The four-day trip included a pre-docking flyby
to test upgraded automated rendezvous equipment.

12
00:00:54,460 --> 00:00:59,980
Meanwhile, the crew onboard ISS spent Thanksgiving
sampling traditional holiday favorites with

13
00:00:59,980 --> 00:01:06,520
a space-food flair... such as irradiated smoked
turkey, thermostabilized yams and freeze-dried

14
00:01:06,520 --> 00:01:08,979
green beans.

15
00:01:08,979 --> 00:01:14,310
A transport container holding the Global Precipitation
Measurement satellite left Goddard Space Flight

16
00:01:14,310 --> 00:01:20,189
Center on a 73-hundred mile journey to the
Japan Aerospace Exploration Agency's Tanegashima

17
00:01:20,189 --> 00:01:23,909
Space Center, where it will undergo launch
preparations.

18
00:01:23,909 --> 00:01:28,289
GPM will set a new standard for global precipitation
measurements.

19
00:01:28,289 --> 00:01:32,220
Launch is planned for early 2014.

20
00:01:32,220 --> 00:01:37,469
New Chief Scientist Ellen Stofan is making
introductory visits to the NASA centers.

21
00:01:37,469 --> 00:01:42,799
Recently at Langley, she toured several facilities

and participated in other activities ... In

22
00:01:42,799 --> 00:01:44,020
California...

23
00:01:44,020 --> 00:01:49,630
Stofan met with center managers and the media
at Ames ... and the former JPL scientist returned

24
00:01:49,630 --> 00:01:54,639
to Pasadena to discuss finding life beyond
Earth.

25
00:01:54,639 --> 00:01:59,159
An agreement to attract high tech companies
to Maryland was signed during an event at

26
00:01:59,159 --> 00:02:01,169
Goddard Space Flight Center.

27
00:02:01,169 --> 00:02:06,499
Senator Barbara Mikulski of Maryland, Governor
of Maryland, Martin O'Malley and Goddard Center

28
00:02:06,499 --> 00:02:10,190
Director Chris Scolese participated in the
signing.

29
00:02:10,190 --> 00:02:15,710
The agreement will benefit future NASA missions
as well as the economic future of Maryland.

30
00:02:15,710 --> 00:02:21,470
An update on Langley Research Center's work
to produce a bug resistant coating for airplane

31
00:02:21,470 --> 00:02:22,470
wings.

32

00:02:22,470 --> 00:02:26,280
Langley is conducting the first in-flight
evaluations of the coating.

33
00:02:26,280 --> 00:02:30,840
Residue from bug splatter, along with other
factors, can cause drag and lead to higher

34
00:02:30,840 --> 00:02:34,860
fuel consumption in airplanes.

35
00:02:34,860 --> 00:02:41,110
Spacelab 1 was launched thirty years ago aboard
space shuttle Columbia -- November 28, 1983

36
00:02:41,110 --> 00:02:42,110
-- on STS-9.

37
00:02:42,110 --> 00:02:47,380
The 10 day mission demonstrated the ability
to conduct advanced scientific research in

38
00:02:47,380 --> 00:02:51,710
space -- with over seventy experiments completed
on the flight.

39
00:02:51,710 --> 00:02:54,540
More than twenty Spacelab missions followed.

40
00:02:54,540 --> 00:02:56,430
And that's what's up ... This Week at NASA.