
TW@N
THIS WEEK @ NASA

1
00:00:04,630 --> 00:00:02,389
the space station crew is safe following

2
00:00:06,389 --> 00:00:04,640
a debris event our recently returned

3
00:00:08,870 --> 00:00:06,399
crew 2 astronauts discussed their

4
00:00:11,190 --> 00:00:08,880
mission and what our crew 1 astronauts

5
00:00:14,150 --> 00:00:11,200
did in washington a few of the stories

6
00:00:16,470 --> 00:00:14,160
to tell you about this week at nasa

7
00:00:18,230 --> 00:00:16,480
on november 15th moscow standard time

8
00:00:20,150 --> 00:00:18,240
the international space station flight

9
00:00:22,550 --> 00:00:20,160
control team was notified about

10
00:00:25,029 --> 00:00:22,560
indications of a satellite breakup that

11
00:00:27,670 --> 00:00:25,039
had potential to create enough debris to

12
00:00:29,750 --> 00:00:27,680
pose a conjunction threat to the station

13
00:00:32,389 --> 00:00:29,760

they directed the crew on board to close

14
00:00:34,630 --> 00:00:32,399
hatches to radio modules on the station

15
00:00:37,270 --> 00:00:34,640
and to shelter in spacecraft docked to

16
00:00:39,270 --> 00:00:37,280
the orbiting outpost for about two hours

17
00:00:41,590 --> 00:00:39,280
the station is passing through or near

18
00:00:43,510 --> 00:00:41,600
the debris cloud every 90 minutes but

19
00:00:45,830 --> 00:00:43,520
based on a risk assessment the crew no

20
00:00:47,190 --> 00:00:45,840
longer needs to shelter and is safe at

21
00:00:49,750 --> 00:00:47,200
this time

22
00:00:51,350 --> 00:00:49,760
nasa's spacex crew 2 astronauts recently

23
00:00:53,590 --> 00:00:51,360
returned from the international space

24
00:00:55,590 --> 00:00:53,600
station they took questions about their

25
00:00:57,750 --> 00:00:55,600
mission during a november 15 post

26
00:00:59,670 --> 00:00:57,760
landing news conference including a

27
00:01:02,310 --> 00:00:59,680
question about how responsive the crew

28
00:01:05,270 --> 00:01:02,320
was to a brief loss of attitude control

29
00:01:07,429 --> 00:01:05,280
the station experienced on october 15th

30
00:01:09,030 --> 00:01:07,439
we relied on our training

31
00:01:10,710 --> 00:01:09,040
and it just kind of kicked in the stuff

32
00:01:13,030 --> 00:01:10,720
that we thought we'd never ever use we

33
00:01:15,270 --> 00:01:13,040
were using and we worked really well

34
00:01:17,270 --> 00:01:15,280
together as a team to kind of

35
00:01:19,510 --> 00:01:17,280
get that situation back under control

36
00:01:22,390 --> 00:01:19,520
crew 2 traveled more than 84 million

37
00:01:24,310 --> 00:01:22,400
miles during their 199 days in orbit and

38
00:01:26,390 --> 00:01:24,320

conducted hundreds of experiments while

39
00:01:28,630 --> 00:01:26,400
on board the space station the

40
00:01:30,789 --> 00:01:28,640
astronauts of nasa's spacex crew 1

41
00:01:33,030 --> 00:01:30,799
mission were in the washington dc area

42
00:01:36,149 --> 00:01:33,040
during the week of november 15th to

43
00:01:40,550 --> 00:01:36,159
share experiences from their 167 days

44
00:01:44,630 --> 00:01:43,109
they stopped by our mary w jackson nasa

45
00:01:46,789 --> 00:01:44,640
headquarters building to present

46
00:01:49,109 --> 00:01:46,799
administrator bill nelson and deputy

47
00:01:51,590 --> 00:01:49,119
administrator pam melroy with photo

48
00:01:52,789 --> 00:01:51,600
montages commemorating the mission

49
00:01:55,190 --> 00:01:52,799
hi thanks for coming we really

50
00:01:56,789 --> 00:01:55,200
appreciate it also at our headquarters

51
00:01:58,950 --> 00:01:56,799
the crew shared imagery from their

52
00:02:00,870 --> 00:01:58,960
mission with nasa employees during a

53
00:02:03,109 --> 00:02:00,880
question and answer presentation the

54
00:02:04,950 --> 00:02:03,119
astronauts also visited capitol hill to

55
00:02:06,789 --> 00:02:04,960
discuss the work being done aboard the

56
00:02:08,710 --> 00:02:06,799
space station with members of congress

57
00:02:11,350 --> 00:02:08,720
and others visiting the destination

58
00:02:13,670 --> 00:02:11,360
station mobile exhibit and to highlight

59
00:02:14,869 --> 00:02:13,680
america's future deep space exploration

60
00:02:16,790 --> 00:02:14,879
plans

61
00:02:18,869 --> 00:02:16,800
nasa has assigned astronaut jessica

62
00:02:21,430 --> 00:02:18,879
watkins to serve as a mission specialist

63
00:02:23,430 --> 00:02:21,440

on our upcoming spacex crew 4 mission to

64
00:02:25,589 --> 00:02:23,440
the international space station she

65
00:02:27,510 --> 00:02:25,599
joins fellow nasa astronauts chell

66
00:02:29,910 --> 00:02:27,520
lingard and robert hines as well as

67
00:02:32,229 --> 00:02:29,920
european space agency astronaut samantha

68
00:02:34,710 --> 00:02:32,239
christopher reddy the four are targeted

69
00:02:37,190 --> 00:02:34,720
for launch in april 2022

70
00:02:39,670 --> 00:02:37,200
our double asteroid redirection test or

71
00:02:42,070 --> 00:02:39,680
dart mission is targeted for launch no

72
00:02:45,030 --> 00:02:42,080
earlier than 1 20 am eastern standard

73
00:02:47,509 --> 00:02:45,040
time on november 24th from california's

74
00:02:49,190 --> 00:02:47,519
vandenberg space force base the mission

75
00:02:51,750 --> 00:02:49,200
will help determine if intentionally

76
00:02:53,509 --> 00:02:51,760
crashing a spacecraft into an asteroid

77
00:02:55,110 --> 00:02:53,519
is an effective way to change the

78
00:02:57,990 --> 00:02:55,120
asteroid's course

79
00:02:59,670 --> 00:02:58,000
check out nasa.gov dart for more about

80
00:03:02,309 --> 00:02:59,680
the mission and some online

81
00:03:04,710 --> 00:03:02,319
opportunities to share in the excitement

82
00:03:05,750 --> 00:03:04,720
of nasa's first planetary defense test

83
00:03:07,430 --> 00:03:05,760
mission

84
00:03:10,390 --> 00:03:07,440
the laser communications relay

85
00:03:13,270 --> 00:03:10,400
demonstration or lcrd will be nasa's

86
00:03:15,030 --> 00:03:13,280
first end-to-end laser relay system the

87
00:03:17,509 --> 00:03:15,040
technology demonstration will use

88
00:03:19,670 --> 00:03:17,519

invisible infrared lasers to transfer

89
00:03:22,470 --> 00:03:19,680
data between earth and geosynchronous

90
00:03:23,509 --> 00:03:22,480
orbit at a rate of 1.2 gigabits per

91
00:03:26,070 --> 00:03:23,519
second

92
00:03:28,229 --> 00:03:26,080
laser communications offer data rates 10

93
00:03:30,470 --> 00:03:28,239
to 100 times higher than traditional

94
00:03:32,149 --> 00:03:30,480
radio transmissions which could enable

95
00:03:34,470 --> 00:03:32,159
future missions to transfer

96
00:03:37,270 --> 00:03:34,480
extraordinary amounts of data

97
00:03:39,509 --> 00:03:37,280
lcrd is targeted for launch nor earlier

98
00:03:41,910 --> 00:03:39,519
than december 4th from cape canaveral

99
00:03:44,309 --> 00:03:41,920
space force station in florida that's

100
00:03:46,070 --> 00:03:44,319
what's up this week at nasa for more on