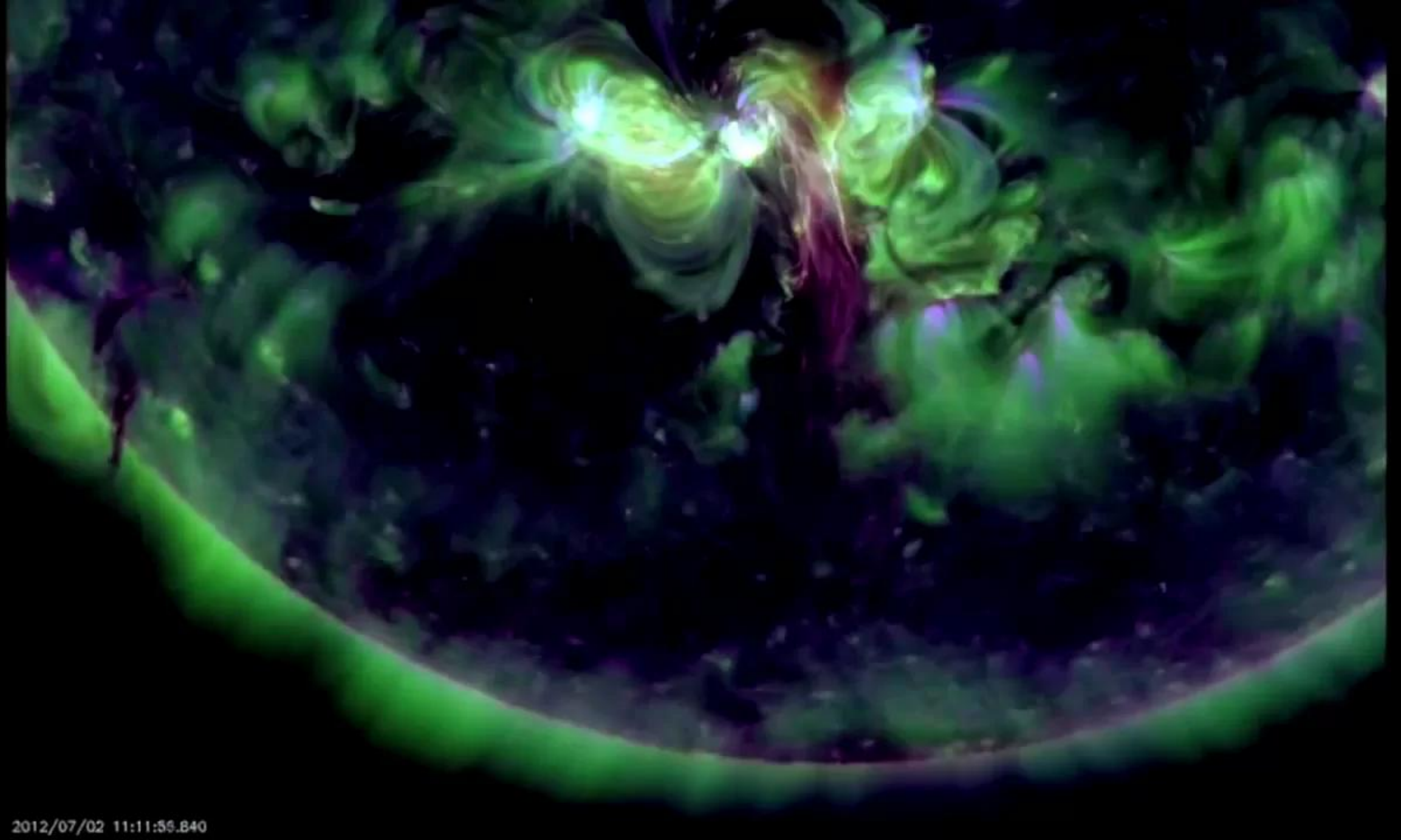
2012/07/02 11:11:56.840

1
00:00:15,350 --> 00:00:13,350
the president's budget proposal for nasa

2
00:00:18,630 --> 00:00:15,360
working to keep america the world's

3
00:00:21,670 --> 00:00:18,640
leader in innovation space exploration

4
00:00:24,070 --> 00:00:21,680
scientific discovery and inspiration for

5
00:00:25,029 --> 00:00:24,080
the benefit of humanity for generations

6
00:00:27,029 --> 00:00:25,039
to come

7
00:00:28,390 --> 00:00:27,039
we don't just look to the future we're

8
00:00:29,429 --> 00:00:28,400
making it happen

9
00:00:32,229 --> 00:00:29,439
one

10
00:00:35,750 --> 00:00:32,239
helping more u.s companies bring cargo

11
00:00:38,229 --> 00:00:35,760
and liftoff liftoff of the spacex falcon

12
00:00:40,069 --> 00:00:38,239
9 rocket launching dragon to the

13
00:00:43,430 --> 00:00:40,079

international space station and

14
00:00:46,790 --> 00:00:43,440
returning cargo resupply missions to u.s

15
00:00:49,590 --> 00:00:46,800
soil and by 2017 launch astronauts from

16
00:00:52,310 --> 00:00:49,600
american soil to the international space

17
00:00:54,069 --> 00:00:52,320
station while creating new jobs here at

18
00:00:55,510 --> 00:00:54,079
home i'm excited about the opportunities

19
00:00:57,830 --> 00:00:55,520
that we're able to provide with nasa's

20
00:00:59,670 --> 00:00:57,840
centennial challenges program we advance

21
00:01:01,510 --> 00:00:59,680
technologies not only for nasa but for

22
00:01:04,390 --> 00:01:01,520
the nation as a whole propelled the

23
00:01:07,350 --> 00:01:04,400
space launch system and orion toward the

24
00:01:10,149 --> 00:01:07,360
president's bold path to lead humans to

25
00:01:14,310 --> 00:01:10,159
an asteroid in 2025

26
00:01:15,670 --> 00:01:14,320
and eventually onto mars in the 2030s

27
00:01:17,350 --> 00:01:15,680
we're building and testing our first

28
00:01:19,030 --> 00:01:17,360
capsule right now and we'll get to see

29
00:01:20,469 --> 00:01:19,040
it launch into space next year for our

30
00:01:21,749 --> 00:01:20,479
first flight test

31
00:01:22,950 --> 00:01:21,759
we're upgrading and modifying the

32
00:01:25,030 --> 00:01:22,960
crawlers for the next generation

33
00:01:27,350 --> 00:01:25,040
spacecraft and we'll be launching soon

34
00:01:28,870 --> 00:01:27,360
now transitioning to

35
00:01:31,350 --> 00:01:28,880
sls

36
00:01:34,630 --> 00:01:31,360
it's really been rejuvenating

37
00:01:37,109 --> 00:01:34,640
to work on america's next launch system

38
00:01:39,830 --> 00:01:37,119

and a board station helping us learn how

39
00:01:41,990 --> 00:01:39,840
to live and work in space nasa does

40
00:01:44,469 --> 00:01:42,000
impossible pretty darn well while we

41
00:01:47,030 --> 00:01:44,479
prove new technologies and conduct

42
00:01:48,069 --> 00:01:47,040
science research to improve life here on

43
00:01:50,590 --> 00:01:48,079
earth

44
00:01:53,190 --> 00:01:50,600
our investigations into early onset

45
00:01:55,069 --> 00:01:53,200
osteoporosis in astronauts

46
00:01:58,110 --> 00:01:55,079
may enhance the detection of

47
00:01:59,190 --> 00:01:58,120
osteoporosis in patients here on earth

48
00:02:01,429 --> 00:01:59,200
[Music]

49
00:02:04,069 --> 00:02:01,439
the president's budget proposal funds

50
00:02:06,310 --> 00:02:04,079
innovations in space technology that

51
00:02:09,190 --> 00:02:06,320
will enable tomorrow's discoveries

52
00:02:11,589 --> 00:02:09,200
across nasa's wide spectrum of missions

53
00:02:12,710 --> 00:02:11,599
while fueling our economy for years to

54
00:02:15,270 --> 00:02:12,720
come

55
00:02:17,350 --> 00:02:15,280
pushing data to the user is really key

56
00:02:19,589 --> 00:02:17,360
users can always use more data

57
00:02:22,390 --> 00:02:19,599
especially the scientific community game

58
00:02:25,110 --> 00:02:22,400
changing technologies may help advance

59
00:02:27,110 --> 00:02:25,120
our date to visit an asteroid as early

60
00:02:29,110 --> 00:02:27,120
as 2021

61
00:02:31,589 --> 00:02:29,120
through an unprecedented feat of

62
00:02:34,949 --> 00:02:31,599
technology innovation and scientific

63
00:02:38,150 --> 00:02:34,959

discovery nasa will work to identify

64
00:02:40,949 --> 00:02:38,160
capture and move an asteroid

65
00:02:43,430 --> 00:02:40,959
raising the bar for human exploration

66
00:02:47,350 --> 00:02:43,440
and help inform us on how to better

67
00:02:51,509 --> 00:02:49,430
nasa's balanced portfolio of

68
00:02:53,830 --> 00:02:51,519
groundbreaking science missions will

69
00:02:56,949 --> 00:02:53,840
continue to monitor and collect critical

70
00:02:58,949 --> 00:02:56,959
data about earth's climate and systems

71
00:03:00,710 --> 00:02:58,959
we do a lot of work in the polar region

72
00:03:02,070 --> 00:03:00,720
where we've taken scientists and

73
00:03:03,910 --> 00:03:02,080
instruments that can measure the

74
00:03:06,309 --> 00:03:03,920
thickness of ice not only can they

75
00:03:08,149 --> 00:03:06,319
measure how how high it is above the sea

76
00:03:09,910 --> 00:03:08,159
level but they can actually measure

77
00:03:11,430 --> 00:03:09,920
through the ice down until they reach

78
00:03:13,509 --> 00:03:11,440
water and then through that till they

79
00:03:15,910 --> 00:03:13,519
reach bedrock to understand our

80
00:03:19,350 --> 00:03:15,920
beginnings spacecraft are speeding to

81
00:03:21,030 --> 00:03:19,360
jupiter pluto and ceres

82
00:03:22,790 --> 00:03:21,040
i'm excited about my work in crowd

83
00:03:24,869 --> 00:03:22,800
propellant because we'll help make it

84
00:03:27,430 --> 00:03:24,879
possible for us to someday explore the

85
00:03:30,470 --> 00:03:27,440
far reaches of our solar system

86
00:03:32,710 --> 00:03:30,480
peering into other galaxies and spotting

87
00:03:34,390 --> 00:03:32,720
planets around other stars

88
00:03:36,710 --> 00:03:34,400

thousands of planet candidates have been

89
00:03:37,990 --> 00:03:36,720
discovered to date hundreds of which are

90
00:03:39,910 --> 00:03:38,000
earth-sized

91
00:03:41,990 --> 00:03:39,920
the data are already hinting that

92
00:03:44,309 --> 00:03:42,000
planets are abundant in the galaxy and

93
00:03:46,949 --> 00:03:44,319
soon we'll know what percentage of stars

94
00:03:48,550 --> 00:03:46,959
harbor planets more like our own earth

95
00:03:51,350 --> 00:03:48,560
they soon will be joined by the

96
00:03:53,910 --> 00:03:51,360
revolutionary james webb space telescope

97
00:03:56,229 --> 00:03:53,920
to delve farther back in time to the

98
00:03:57,990 --> 00:03:56,239
very origins of the universe we're here

99
00:03:59,589 --> 00:03:58,000
at nasa goddard space flight center's

100
00:04:01,509 --> 00:03:59,599
clean room where we're testing the

101
00:04:03,750 --> 00:04:01,519
robotic arm that will help assemble the

102
00:04:06,390 --> 00:04:03,760
james webb space telescope and as

103
00:04:08,470 --> 00:04:06,400
curiosity continues roving mars on

104
00:04:11,270 --> 00:04:08,480
history's most daring mission to the red

105
00:04:13,350 --> 00:04:11,280
planet nasa is planning another robotic

106
00:04:15,750 --> 00:04:13,360
mission to earth's nearest neighbor

107
00:04:16,789 --> 00:04:15,760
along with current mission maven and

108
00:04:18,150 --> 00:04:16,799
insight

109
00:04:20,069 --> 00:04:18,160
with a budget in place we're able to

110
00:04:22,150 --> 00:04:20,079
continue testing the development of

111
00:04:24,310 --> 00:04:22,160
exciting missions to mars including the

112
00:04:26,070 --> 00:04:24,320
maven mission maven will be able to

113
00:04:27,830 --> 00:04:26,080

explore whether or not the atmosphere of

114
00:04:29,510 --> 00:04:27,840
mars has evolved over time and if the

115
00:04:31,990 --> 00:04:29,520
majority of it has actually been lost to

116
00:04:34,230 --> 00:04:32,000
interplanetary space forever nasa's

117
00:04:37,590 --> 00:04:34,240
cutting edge aeronautics research will

118
00:04:40,230 --> 00:04:37,600
continue making air travel safer cleaner

119
00:04:43,510 --> 00:04:40,240
and quieter for americans and everyone

120
00:04:45,110 --> 00:04:43,520
the world over nasa's always trying to

121
00:04:46,550 --> 00:04:45,120
push research push boundaries and one of

122
00:04:48,870 --> 00:04:46,560
the things we're trying to do is to

123
00:04:50,870 --> 00:04:48,880
bring commercial supersonic travel

124
00:04:52,710 --> 00:04:50,880
to the world we're working closely with

125
00:04:55,110 --> 00:04:52,720
other government agencies

126
00:04:57,990 --> 00:04:55,120
to mitigate the environmental concerns

127
00:05:00,070 --> 00:04:58,000
of aviation and this project will

128
00:05:01,749 --> 00:05:00,080
certainly have an impact

129
00:05:03,749 --> 00:05:01,759
looking out five or ten years our

130
00:05:05,590 --> 00:05:03,759
dynamic weather roots tool is an example

131
00:05:07,749 --> 00:05:05,600
of how nasa will improve the future of

132
00:05:09,350 --> 00:05:07,759
air transportation the software will

133
00:05:11,110 --> 00:05:09,360
help airlines and air traffic

134
00:05:13,110 --> 00:05:11,120
controllers find efficient and safe

135
00:05:15,270 --> 00:05:13,120
paths for aircraft to fly around bad

136
00:05:17,350 --> 00:05:15,280
weather potentially saving about 100

137
00:05:19,749 --> 00:05:17,360
million dollars each year and operations

138
00:05:22,790 --> 00:05:19,759

and fuel costs and finally nasa will

139
00:05:25,670 --> 00:05:22,800
continue to educate and inspire our

140
00:05:28,390 --> 00:05:25,680
children to dream big work and study

141
00:05:31,110 --> 00:05:28,400
hard and reach for the stars as

142
00:05:34,150 --> 00:05:31,120
america's next generation of scientists

143
00:05:36,390 --> 00:05:34,160
technologists engineers mathematicians

144
00:05:38,390 --> 00:05:36,400
and astronauts all you really need to do

145
00:05:40,150 --> 00:05:38,400
is you know get that spark going in that

146
00:05:42,230 --> 00:05:40,160
little kid's mind you know about what he

147
00:05:44,870 --> 00:05:42,240
can do and they just you set them off

148
00:05:47,510 --> 00:05:44,880
and they go out to learn i love working

149
00:05:49,909 --> 00:05:47,520
with young scientists having their first

150
00:05:51,590 --> 00:05:49,919
experience as researchers because i

151
00:05:53,189 --> 00:05:51,600
remember my first experience during

152
00:05:54,870 --> 00:05:53,199
research and my first time solving a

153
00:05:57,110 --> 00:05:54,880
problem so i love giving young

154
00:05:59,270 --> 00:05:57,120
scientists an opportunity to solve their

155
00:06:01,110 --> 00:05:59,280
first problem and that in itself is

156
00:06:02,550 --> 00:06:01,120
building a foundation to take us farther

157
00:06:04,230 --> 00:06:02,560
into the future and grow our young

158
00:06:06,790 --> 00:06:04,240
engineers

159
00:06:09,270 --> 00:06:06,800
the president's fiscal year 2014 budget

160
00:06:11,749 --> 00:06:09,280
proposal ensures united states

161
00:06:14,629 --> 00:06:11,759
leadership in space exploration and

162
00:06:16,550 --> 00:06:14,639
scientific discovery for years to come

163
00:06:19,270 --> 00:06:16,560

while making critical advances in

164
00:06:22,070 --> 00:06:19,280
aerospace and aeronautics to benefit the

165
00:06:23,670 --> 00:06:22,080
american people all in more innovative

166
00:06:26,390 --> 00:06:23,680
and cost-effective ways that will

167
00:06:27,640 --> 00:06:26,400
inspire the world through exploration