
NASA
Curiosity to Land Closer to Site

1
00:00:05,920 --> 00:00:10,470
this week at nasa

2
00:00:14,950 --> 00:00:12,549
good to see you nasa administrator

3
00:00:17,590 --> 00:00:14,960
charles bolden visited the facilities of

4
00:00:19,269 --> 00:00:17,600
space exploration technologies following

5
00:00:21,189 --> 00:00:19,279
the successful round-trip of the

6
00:00:23,269 --> 00:00:21,199
company's dragon spacecraft to the

7
00:00:25,269 --> 00:00:23,279
international space station

8
00:00:28,470 --> 00:00:25,279
dragon demonstrated its ability to

9
00:00:30,630 --> 00:00:28,480
maneuver and birth to the iss then make

10
00:00:32,389 --> 00:00:30,640
its safe return to earth

11
00:00:34,950 --> 00:00:32,399
at the spacex rocket development

12
00:00:38,389 --> 00:00:34,960
facility in mcgregor texas bolden and

13
00:00:40,790 --> 00:00:38,399

spacex ceo elon musk signed documents

14
00:00:42,709 --> 00:00:40,800
officially transferring to nasa the

15
00:00:51,270 --> 00:00:42,719
cargo returned by dragon from the

16
00:00:56,069 --> 00:00:53,910
bolden musk and others were at spacex

17
00:00:59,510 --> 00:00:56,079
headquarters in hawthorne california the

18
00:01:02,310 --> 00:00:59,520
next day for a concept baseline review

19
00:01:05,270 --> 00:01:02,320
the cbr essentially a final draft of

20
00:01:07,429 --> 00:01:05,280
specific system designs is a required

21
00:01:09,030 --> 00:01:07,439
milestone of nasa's commercial crew

22
00:01:12,149 --> 00:01:09,040
development program

23
00:01:13,750 --> 00:01:12,159
you have now allowed nasa to take time

24
00:01:15,190 --> 00:01:13,760
to start developing

25
00:01:16,630 --> 00:01:15,200
vehicles that are going to get us beyond

26
00:01:18,630 --> 00:01:16,640
low earth orbit because we don't have to

27
00:01:20,070 --> 00:01:18,640
worry about getting people to low earth

28
00:01:22,310 --> 00:01:20,080
orbit anymore we don't have to worry

29
00:01:23,910 --> 00:01:22,320
about getting cargo and people to the

30
00:01:25,910 --> 00:01:23,920
international space station because

31
00:01:29,590 --> 00:01:25,920
companies like spacex are taking on that

32
00:01:32,870 --> 00:01:30,710
hi

33
00:01:35,429 --> 00:01:32,880
langley research center recently played

34
00:01:38,469 --> 00:01:35,439
host to mark sarangelo head of sierra

35
00:01:40,710 --> 00:01:38,479
nevada space systems nasa and sierra

36
00:01:42,950 --> 00:01:40,720
nevada are marking the fifth year of a

37
00:01:45,590 --> 00:01:42,960
partnership to design and develop the

38
00:01:48,789 --> 00:01:45,600

dream chaser space system an orbital

39
00:01:50,870 --> 00:01:48,799
crew vehicle based upon langley's hl20

40
00:01:53,109 --> 00:01:50,880
lifting body spacecraft

41
00:01:55,590 --> 00:01:53,119
sarangelo joined center director lisa

42
00:01:58,630 --> 00:01:55,600
rowe on a tour of langley's transonic

43
00:02:01,190 --> 00:01:58,640
dynamics tunnel here dreamchaser is

44
00:02:03,429 --> 00:02:01,200
being tested to evaluate fluctuations

45
00:02:11,350 --> 00:02:03,439
the launch vehicle stack may experience

46
00:02:16,390 --> 00:02:12,670
a 1

47
00:02:19,190 --> 00:02:16,400
152nd test of the j2x power pack a

48
00:02:21,670 --> 00:02:19,200
subset of the engine became the longest

49
00:02:24,790 --> 00:02:21,680
duration firing ever conducted in the

50
00:02:26,790 --> 00:02:24,800
stennis space center's a test complex

51
00:02:29,270 --> 00:02:26,800
surpassing the previous record by more

52
00:02:31,430 --> 00:02:29,280
than a full minute the june 8th test

53
00:02:33,990 --> 00:02:31,440
marked a milestone in the development of

54
00:02:36,229 --> 00:02:34,000
a next generation rocket engine designed

55
00:02:38,470 --> 00:02:36,239
to carry humans deeper into space than

56
00:02:41,190 --> 00:02:38,480
ever before the significance of this

57
00:02:43,589 --> 00:02:41,200
test is to look specifically at the

58
00:02:46,070 --> 00:02:43,599
pumps and what they're producing to see

59
00:02:48,150 --> 00:02:46,080
how they react in different environments

60
00:02:49,750 --> 00:02:48,160
and we're making sure that everything

61
00:02:52,630 --> 00:02:49,760
we've put on paper and that we've

62
00:02:55,830 --> 00:02:52,640
developed on computer models is working

63
00:02:58,470 --> 00:02:55,840

in real life the j2x is the first human

64
00:03:01,030 --> 00:02:58,480
rated liquid oxygen and liquid hydrogen

65
00:03:03,270 --> 00:03:01,040
rocket engine developed in 40 years

66
00:03:06,550 --> 00:03:03,280
and will provide upper stage power for

67
00:03:08,790 --> 00:03:06,560
nasa's space launch system or sls the

68
00:03:14,149 --> 00:03:08,800
heavy lift vehicle that'll send the new

69
00:03:18,470 --> 00:03:16,550
small regional companies and government

70
00:03:21,030 --> 00:03:18,480
agencies near the michoud assembly

71
00:03:23,910 --> 00:03:21,040
facility that may want to help develop

72
00:03:25,910 --> 00:03:23,920
and support the sls were hosted at

73
00:03:28,869 --> 00:03:25,920
contact 2012.

74
00:03:31,190 --> 00:03:28,879
73 companies exhibited their services at

75
00:03:33,589 --> 00:03:31,200
the networking event co-sponsored by

76
00:03:38,550 --> 00:03:33,599
nasa the louisiana small business

77
00:03:44,309 --> 00:03:41,030
nasa has narrowed the landing target for

78
00:03:46,550 --> 00:03:44,319
its most advanced mars rover curiosity

79
00:03:49,350 --> 00:03:46,560
when it sits down on the red planet in

80
00:03:51,910 --> 00:03:49,360
august the car-sized rover will now be

81
00:03:54,229 --> 00:03:51,920
closer to gale crater's mount sharp

82
00:03:56,309 --> 00:03:54,239
where it'll conduct its science

83
00:03:58,390 --> 00:03:56,319
fear of any additional risk that comes

84
00:04:00,710 --> 00:03:58,400
with putting down nearer the mountain's

85
00:04:03,110 --> 00:04:00,720
hazardous slope was overcome by

86
00:04:04,789 --> 00:04:03,120
confidence in curiosity's precision

87
00:04:07,350 --> 00:04:04,799
landing technology

88
00:04:10,630 --> 00:04:07,360

rock layers located in the mountain are

89
00:04:13,589 --> 00:04:10,640
the prime location for rover research

90
00:04:16,469 --> 00:04:13,599
launched in november 2011 curiosity is

91
00:04:19,749 --> 00:04:16,479
scheduled to land at approximately 1 31

92
00:04:22,469 --> 00:04:19,759
a.m eastern daylight time on august 6th

93
00:04:24,710 --> 00:04:22,479
following checkout operations curiosity

94
00:04:26,870 --> 00:04:24,720
will begin a two-year study of whether

95
00:04:32,629 --> 00:04:26,880
the landing vicinity ever offered an

96
00:04:37,670 --> 00:04:35,189
in the night skies above kwajalein atoll

97
00:04:40,710 --> 00:04:37,680
in the central pacific ocean nasa's

98
00:04:43,510 --> 00:04:40,720
nuclear spectroscopic telescope array or

99
00:04:47,110 --> 00:04:43,520
nustar was released from the belly of an

100
00:04:50,629 --> 00:04:47,120
l-1011 stargazer aircraft then sent into

101
00:04:52,310 --> 00:04:50,639
space by its pegasus xl rockwell three

102
00:04:53,830 --> 00:04:52,320
two one

103
00:04:56,629 --> 00:04:53,840
drop

104
00:04:59,110 --> 00:04:56,639
and pegasus is away

105
00:05:01,510 --> 00:04:59,120
in low earth orbit near the equator

106
00:05:03,990 --> 00:05:01,520
nustar will team with other telescopes

107
00:05:06,870 --> 00:05:04,000
already in space including nasa's

108
00:05:09,270 --> 00:05:06,880
chandra x-ray observatory to hunt for

109
00:05:11,909 --> 00:05:09,280
and provide a more complete picture of

110
00:05:15,430 --> 00:05:11,919
the most powerful and exotic objects in

111
00:05:17,670 --> 00:05:15,440
space such as black holes dead stars and

112
00:05:18,790 --> 00:05:17,680
jets of energy traveling near the speed

113
00:05:20,870 --> 00:05:18,800

of light

114
00:05:23,830 --> 00:05:20,880
nustar has more than 10 times the

115
00:05:26,070 --> 00:05:23,840
resolution and more than 100 times the

116
00:05:31,830 --> 00:05:26,080
sensitivity of its predecessors

117
00:05:35,990 --> 00:05:34,070
nasa is asking the help of accredited

118
00:05:37,990 --> 00:05:36,000
american universities in finding

119
00:05:40,390 --> 00:05:38,000
innovative early stage space

120
00:05:43,110 --> 00:05:40,400
technologies that can ensure the success

121
00:05:44,150 --> 00:05:43,120
of future science and human exploration

122
00:05:46,390 --> 00:05:44,160
missions

123
00:05:48,870 --> 00:05:46,400
among these technologies improves

124
00:05:51,189 --> 00:05:48,880
shielding from space radiation a known

125
00:05:53,189 --> 00:05:51,199
danger to the health of astronauts

126
00:05:55,189 --> 00:05:53,199
better methods for storing cryogenic

127
00:05:57,590 --> 00:05:55,199
propellants in fuel tanks and filling

128
00:06:00,870 --> 00:05:57,600
stations in space over long periods of

129
00:06:02,950 --> 00:06:00,880
time and distance and advanced optical

130
00:06:05,670 --> 00:06:02,960
systems for the next generation of

131
00:06:07,749 --> 00:06:05,680
lightweight mirrors and telescopes

132
00:06:10,070 --> 00:06:07,759
ten awards each as much as two hundred

133
00:06:12,550 --> 00:06:10,080
fifty thousand dollars are expected to

134
00:06:15,189 --> 00:06:12,560
be made this fall by nasa's space

135
00:06:17,029 --> 00:06:15,199
technology program managed by the office

136
00:06:19,270 --> 00:06:17,039
of the chief technologist

137
00:06:23,029 --> 00:06:19,280
for information on submitting proposals

138
00:06:23,039 --> 00:06:27,990

slash oct

139
00:06:32,230 --> 00:06:30,230
johnson space center houston and

140
00:06:34,390 --> 00:06:32,240
surrounding communities welcomed a

141
00:06:36,469 --> 00:06:34,400
full-scale replica of the space shuttle

142
00:06:38,790 --> 00:06:36,479
recently with a weekend of activities to

143
00:06:40,950 --> 00:06:38,800
commemorate its arrival

144
00:06:43,029 --> 00:06:40,960
the replica which arrived by barge from

145
00:06:45,510 --> 00:06:43,039
the kennedy space center in florida on

146
00:06:47,510 --> 00:06:45,520
june the first was welcomed to its new

147
00:06:49,270 --> 00:06:47,520
home by thousands who gathered to watch

148
00:06:51,110 --> 00:06:49,280
its arrival and kick off the shuttle

149
00:06:53,029 --> 00:06:51,120
bration weekend

150
00:06:54,870 --> 00:06:53,039
the crowd cheered as the space shuttle

151
00:06:59,189 --> 00:06:54,880
arrived at the same dock that saw the

152
00:07:01,430 --> 00:06:59,199
arrival of the saturn v rocket in 1977.

153
00:07:03,990 --> 00:07:01,440
the shuttle escorted by a flotilla of

154
00:07:06,390 --> 00:07:04,000
boats and the coast guard helicopter was

155
00:07:09,029 --> 00:07:06,400
welcomed by a fire boat spray and red

156
00:07:10,950 --> 00:07:09,039
white and blue confetti salute

157
00:07:13,189 --> 00:07:10,960
the arrival today of this incredible

158
00:07:14,870 --> 00:07:13,199
full-scale replica of the space shuttle

159
00:07:17,430 --> 00:07:14,880
is a credit to the hard work of this

160
00:07:19,589 --> 00:07:17,440
community and the space center houston

161
00:07:21,990 --> 00:07:19,599
it's to help secure our legacy for our

162
00:07:23,589 --> 00:07:22,000
community and reminds us that we are the

163
00:07:25,909 --> 00:07:23,599

explorers

164
00:07:28,790 --> 00:07:25,919
we make the dreams a reality

165
00:07:31,189 --> 00:07:28,800
we're ready for the next great mission

166
00:07:33,430 --> 00:07:31,199
early on june 3rd crowds lined the

167
00:07:35,589 --> 00:07:33,440
street of nassau bay as the replica made

168
00:07:37,589 --> 00:07:35,599
its nearly four-hour trek down nasa

169
00:07:39,589 --> 00:07:37,599
parkway to its permanent home at space

170
00:07:42,469 --> 00:07:39,599
center houston the official visitor

171
00:07:44,390 --> 00:07:42,479
center of the johnson space center

172
00:07:46,550 --> 00:07:44,400
the new attraction will provide visitors

173
00:07:48,950 --> 00:07:46,560
a close-up view of a shuttle including

174
00:07:50,710 --> 00:07:48,960
what it's like to be inside the cockpit

175
00:07:54,869 --> 00:07:50,720
an experience that will only be

176
00:08:02,550 --> 00:07:59,670
60 years ago on june 18 1952

177
00:08:04,230 --> 00:08:02,560
h julian allen a scientist working at

178
00:08:05,749 --> 00:08:04,240
the ames research center for the

179
00:08:08,230 --> 00:08:05,759
national advisory committee for

180
00:08:10,950 --> 00:08:08,240
aeronautics nasa's predecessor

181
00:08:13,909 --> 00:08:10,960
organization conceived of the design

182
00:08:17,189 --> 00:08:13,919
upon which every early u.s astronaut

183
00:08:19,430 --> 00:08:17,199
would rely for his safe return to earth

184
00:08:21,990 --> 00:08:19,440
harvey allen as he was widely known

185
00:08:24,230 --> 00:08:22,000
later became center director at ames but

186
00:08:27,350 --> 00:08:24,240
would be best remembered for his blunt

187
00:08:29,670 --> 00:08:27,360
body theory of re-entry aerodynamics

188
00:08:32,870 --> 00:08:29,680

alan's technique was used in nasa's

189
00:08:35,670 --> 00:08:32,880
mercury gemini and apollo capsules

190
00:08:38,469 --> 00:08:35,680
and will be used on the new orion

191
00:08:41,509 --> 00:08:38,479
capsule as well

192
00:08:43,750 --> 00:08:41,519
and that's this week at nasa for more on

193
00:08:46,150 --> 00:08:43,760
these and other stories or to follow us