
NASA

1
00:00:06,960 --> 00:00:15,270
this week at nasa

2
00:00:19,269 --> 00:00:16,430
with the launch of

3
00:00:22,550 --> 00:00:19,279
sts-135 officially set for july 8th at

4
00:00:24,550 --> 00:00:22,560
11 26 a.m eastern daylight time the

5
00:00:27,349 --> 00:00:24,560
four-member crew commander chris

6
00:00:30,070 --> 00:00:27,359
ferguson pilot doug hurley and mission

7
00:00:32,310 --> 00:00:30,080
specialist sandy magnus and rex wallham

8
00:00:33,910 --> 00:00:32,320
is making its final preparations for the

9
00:00:35,190 --> 00:00:33,920
final mission of the space shuttle

10
00:00:37,270 --> 00:00:35,200
program

11
00:00:39,030 --> 00:00:37,280
space shuttle atlantis 12-day mission to

12
00:00:40,869 --> 00:00:39,040
the international space station will

13
00:00:42,950 --> 00:00:40,879

deliver the rafaello multi-purpose

14
00:00:45,510 --> 00:00:42,960
logistics module filled with supplies

15
00:00:48,229 --> 00:00:45,520
and spare parts to sustain station

16
00:00:50,229 --> 00:00:48,239
operations once the shuttles are retired

17
00:00:52,790 --> 00:00:50,239
the mission also will fly the robotic

18
00:00:54,869 --> 00:00:52,800
refueling mission an experiment designed

19
00:00:57,110 --> 00:00:54,879
to demonstrate and test the tools

20
00:00:59,750 --> 00:00:57,120
technologies and techniques needed to

21
00:01:02,150 --> 00:00:59,760
robotically refuel satellites in space

22
00:01:04,549 --> 00:01:02,160
even satellites not designed to be

23
00:01:06,870 --> 00:01:04,559
serviced this flight is incredibly

24
00:01:09,990 --> 00:01:06,880
important to space station the the cargo

25
00:01:12,310 --> 00:01:10,000
that is coming up on this flight is is

26
00:01:15,030 --> 00:01:12,320
really mandatory for for space station

27
00:01:18,230 --> 00:01:15,040
the first space shuttle mission sts-1

28
00:01:20,149 --> 00:01:18,240
launched on april 12 1981 with veteran

29
00:01:23,109 --> 00:01:20,159
astronaut john young and first-time

30
00:01:25,429 --> 00:01:23,119
flyer bob crippen aboard columbia

31
00:01:32,390 --> 00:01:25,439
the liftoff of atlantis will be shuttle

32
00:01:36,469 --> 00:01:34,390
nasa administrator charles bolden

33
00:01:38,870 --> 00:01:36,479
outlined the agency's post-shuttle

34
00:01:40,870 --> 00:01:38,880
future in a speech to media and members

35
00:01:42,870 --> 00:01:40,880
at the national press club in washington

36
00:01:45,510 --> 00:01:42,880
i'm here to tell you that american

37
00:01:48,469 --> 00:01:45,520
leadership in space will continue for at

38
00:01:50,149 --> 00:01:48,479

least at least the next half century

39
00:01:53,030 --> 00:01:50,159
because we've laid the foundation for

40
00:01:55,190 --> 00:01:53,040
success and for us at nasa failure is

41
00:01:56,950 --> 00:01:55,200
not an option bolden told the luncheon

42
00:01:59,109 --> 00:01:56,960
gathering and a national television

43
00:02:01,109 --> 00:01:59,119
audience that nasa will continue its

44
00:02:03,429 --> 00:02:01,119
human space exploration efforts aboard

45
00:02:05,190 --> 00:02:03,439
the international space station and by

46
00:02:07,670 --> 00:02:05,200
developing new technologies and

47
00:02:09,990 --> 00:02:07,680
capabilities to send future generations

48
00:02:11,350 --> 00:02:10,000
to multiple destinations beyond low

49
00:02:14,150 --> 00:02:11,360
earth orbit

50
00:02:15,910 --> 00:02:14,160
we are not ending human space flight

51
00:02:19,110 --> 00:02:15,920
we are recommitting ourselves to it and

52
00:02:21,510 --> 00:02:19,120
taking necessary and difficult steps

53
00:02:24,150 --> 00:02:21,520
today to ensure america's preeminence in

54
00:02:26,470 --> 00:02:24,160
human space exploration for years to

55
00:02:28,309 --> 00:02:26,480
come bolden also spoke of nasa's

56
00:02:30,309 --> 00:02:28,319
continued innovation in aeronautics

57
00:02:32,470 --> 00:02:30,319
research and dedication to sending

58
00:02:34,309 --> 00:02:32,480
robotic science missions into the solar

59
00:02:36,550 --> 00:02:34,319
system and beyond

60
00:02:38,710 --> 00:02:36,560
special guest speaker four-time shuttle

61
00:02:40,949 --> 00:02:38,720
astronaut mark kelly talked of the

62
00:02:42,869 --> 00:02:40,959
continuing recovery of his wife

63
00:02:45,910 --> 00:02:42,879

congresswoman gabrielle giffords of

64
00:02:47,990 --> 00:02:45,920
arizona and the end of the shuttle era i

65
00:02:49,990 --> 00:02:48,000
love her very much

66
00:02:52,630 --> 00:02:50,000
but i have to say i also love the space

67
00:02:54,470 --> 00:02:52,640
shuttle very much

68
00:02:55,670 --> 00:02:54,480
the space shuttle has been very good to

69
00:02:57,830 --> 00:02:55,680
this country

70
00:02:59,910 --> 00:02:57,840
it's an incredible ship that is

71
00:03:02,229 --> 00:02:59,920
difficult to let go

72
00:03:04,229 --> 00:03:02,239
in just one week from today

73
00:03:11,830 --> 00:03:04,239
the space shuttle will rock it off the

74
00:03:15,589 --> 00:03:13,910
nasa's robotic lander development

75
00:03:17,990 --> 00:03:15,599
project of the marshall space flight

76
00:03:22,790 --> 00:03:18,000
center conducted the second free-flight

77
00:03:25,110 --> 00:03:22,800
test of a robotic lander prototype 2-1

78
00:03:27,589 --> 00:03:25,120
the lander successfully executed its

79
00:03:29,750 --> 00:03:27,599
planned flight profile rising to a

80
00:03:31,750 --> 00:03:29,760
six-foot hover and descending to a

81
00:03:33,670 --> 00:03:31,760
controlled soft landing

82
00:03:35,670 --> 00:03:33,680
overhead and side mounted cameras

83
00:03:38,309 --> 00:03:35,680
captured the action in high definition

84
00:03:40,710 --> 00:03:38,319
and infrared allowing engineers to see

85
00:03:42,869 --> 00:03:40,720
the performance engage the temperatures

86
00:03:44,070 --> 00:03:42,879
of thruster plumes invisible to the

87
00:03:46,309 --> 00:03:44,080
naked eye

88
00:03:48,869 --> 00:03:46,319

these tests will aid in the design and

89
00:03:52,070 --> 00:03:48,879
development of a new generation of small

90
00:03:53,990 --> 00:03:52,080
smart versatile robotic landers capable

91
00:03:56,149 --> 00:03:54,000
of performing science and exploration

92
00:03:58,869 --> 00:03:56,159
research at multiple destinations in the

93
00:04:00,869 --> 00:03:58,879
solar system

94
00:04:03,350 --> 00:04:00,879
all of the mirrors that will fly aboard

95
00:04:05,750 --> 00:04:03,360
nasa's james webb space telescope have

96
00:04:08,030 --> 00:04:05,760
been polished representing a major

97
00:04:10,949 --> 00:04:08,040
milestone for the observatory

98
00:04:13,429 --> 00:04:10,959
jwst has four types of mirrors made of

99
00:04:15,990 --> 00:04:13,439
beryllium its primary one which is

100
00:04:18,550 --> 00:04:16,000
actually comprised of 18 individual

101
00:04:20,949 --> 00:04:18,560
mirrors will enable scientists to

102
00:04:23,830 --> 00:04:20,959
capture light from faint distant objects

103
00:04:27,270 --> 00:04:23,840
in the universe faster than any previous

104
00:04:29,909 --> 00:04:27,280
space observatory and see objects as far

105
00:04:32,310 --> 00:04:29,919
away as the first galaxies in the

106
00:04:34,870 --> 00:04:32,320
universe as the successor to the hubble

107
00:04:36,870 --> 00:04:34,880
space telescope the webb telescope is

108
00:04:39,510 --> 00:04:36,880
the world's next generation space

109
00:04:47,110 --> 00:04:39,520
observatory it will be the most powerful

110
00:04:50,790 --> 00:04:49,030
two nasa aircraft are conducting

111
00:04:52,950 --> 00:04:50,800
research flights over the baltimore

112
00:04:55,590 --> 00:04:52,960
washington region and northeast maryland

113
00:04:58,469 --> 00:04:55,600

this summer to improve how ground-level

114
00:05:01,350 --> 00:04:58,479
air quality is measured from space

115
00:05:03,350 --> 00:05:01,360
discover a queue for deriving

116
00:05:04,950 --> 00:05:03,360
information on surface conditions from

117
00:05:07,430 --> 00:05:04,960
column and vertically resolved

118
00:05:09,350 --> 00:05:07,440
observations relevant to air quality is

119
00:05:11,590 --> 00:05:09,360
a targeted four-year science

120
00:05:13,670 --> 00:05:11,600
investigation to complement data

121
00:05:15,749 --> 00:05:13,680
gathered by nasa satellites

122
00:05:17,590 --> 00:05:15,759
space-borne instruments monitoring air

123
00:05:19,830 --> 00:05:17,600
quality have trouble distinguishing

124
00:05:21,670 --> 00:05:19,840
between pollution high in the atmosphere

125
00:05:22,950 --> 00:05:21,680
and pollution near the surface where

126
00:05:24,790 --> 00:05:22,960
people live

127
00:05:26,950 --> 00:05:24,800
discover a q's measurements will be

128
00:05:28,710 --> 00:05:26,960
combined with ground-based observation

129
00:05:31,110 --> 00:05:28,720
sites to help scientists tell the

130
00:05:33,510 --> 00:05:31,120
difference

131
00:05:35,110 --> 00:05:33,520
we can work with our private sector and

132
00:05:37,749 --> 00:05:35,120
tap into that

133
00:05:39,990 --> 00:05:37,759
u.s industry nasa deputy administrator

134
00:05:41,830 --> 00:05:40,000
lori garver web chatted with users of

135
00:05:44,150 --> 00:05:41,840
the social media twitter about the

136
00:05:46,469 --> 00:05:44,160
future of the agency

137
00:05:48,550 --> 00:05:46,479
hosted by astronaut mike massimino

138
00:05:51,029 --> 00:05:48,560

better known to tweeters by the handle

139
00:05:53,270 --> 00:05:51,039
astro mike the one-hour question and

140
00:05:54,710 --> 00:05:53,280
answer session was carried on nasa tv's

141
00:05:56,950 --> 00:05:54,720
ustream channel

142
00:05:59,110 --> 00:05:56,960
garver and massimino invited the twitter

143
00:06:01,430 --> 00:05:59,120
community to ask questions about nasa's

144
00:06:04,790 --> 00:06:01,440
plans for human exploration of space

145
00:06:06,550 --> 00:06:04,800
post shuttle the exploration plans

146
00:06:09,350 --> 00:06:06,560
of this nation i think we will do it in

147
00:06:11,110 --> 00:06:09,360
a cooperative way uh have the red planet

148
00:06:12,550 --> 00:06:11,120
in our sights the whole point of what

149
00:06:15,270 --> 00:06:12,560
we're doing is to develop these

150
00:06:17,189 --> 00:06:15,280
capabilities so we can go farther okay

151
00:06:19,189 --> 00:06:17,199
awesome all right we have another

152
00:06:21,029 --> 00:06:19,199
question they also discussed how nasa

153
00:06:22,550 --> 00:06:21,039
astronauts will continue to travel and

154
00:06:27,510 --> 00:06:22,560
work aboard the international space

155
00:06:32,070 --> 00:06:30,150
the annual agency honor awards ceremony

156
00:06:35,189 --> 00:06:32,080
was held at nasa headquarters on june

157
00:06:37,430 --> 00:06:35,199
30. the event recognized employees both

158
00:06:39,590 --> 00:06:37,440
individual and groups at nasa centers

159
00:06:41,670 --> 00:06:39,600
and facilities across the country who've

160
00:06:44,230 --> 00:06:41,680
made significant contributions to the

161
00:06:45,670 --> 00:06:44,240
nasa mission and america's space program

162
00:06:47,990 --> 00:06:45,680
over the past year

163
00:06:51,510 --> 00:06:48,000

a total of 88 awards were presented

164
00:06:55,670 --> 00:06:53,670
the smithsonian's national air and space

165
00:06:58,070 --> 00:06:55,680
museum in washington was the scene of a

166
00:07:00,070 --> 00:06:58,080
special celebration noting the 50th

167
00:07:01,510 --> 00:07:00,080
anniversary of the first nuclear space

168
00:07:07,189 --> 00:07:01,520
flight

169
00:07:09,990 --> 00:07:07,199
transit 4a spacecraft on june 29 1961

170
00:07:12,870 --> 00:07:10,000
carrying with it a snap 3b radio isotope

171
00:07:15,350 --> 00:07:12,880
power generator that produced 2.7 watts

172
00:07:17,189 --> 00:07:15,360
of electrical power as well as other

173
00:07:22,950 --> 00:07:17,199
nuclear-powered missions undertaken by

174
00:07:22,960 --> 00:07:31,110
and now centerpieces

175
00:07:36,150 --> 00:07:33,749
diving like a bird of prey a nasa dryden

176
00:07:37,990 --> 00:07:36,160
fa 18 has been putting the landing radar

177
00:07:40,150 --> 00:07:38,000
for the mars science laboratory through

178
00:07:42,550 --> 00:07:40,160
its faces over edwards air force base in

179
00:07:44,550 --> 00:07:42,560
california

180
00:07:46,390 --> 00:07:44,560
the aircraft carried an experimental pod

181
00:07:48,390 --> 00:07:46,400
that housed the test radar underneath

182
00:07:50,710 --> 00:07:48,400
the aircraft's left wing

183
00:07:53,430 --> 00:07:50,720
during the flights the fa-18 climbed to

184
00:07:56,070 --> 00:07:53,440
40 000 feet then made stair-step dives

185
00:07:58,309 --> 00:07:56,080
over roger's dry lake at angles of 40 to

186
00:08:00,230 --> 00:07:58,319
90 degrees

187
00:08:01,990 --> 00:08:00,240
in order to simulate what the radar will

188
00:08:03,350 --> 00:08:02,000

see during entry into the martian

189
00:08:05,510 --> 00:08:03,360
atmosphere

190
00:08:08,070 --> 00:08:05,520
being developed by nasa's jet propulsion

191
00:08:11,029 --> 00:08:08,080
laboratory the mars science laboratory

192
00:08:17,350 --> 00:08:11,039
with its curiosity rover is nasa's next

193
00:08:20,629 --> 00:08:18,950
hundreds of fourth through sixth grade

194
00:08:22,710 --> 00:08:20,639
students from the california high desert

195
00:08:24,710 --> 00:08:22,720
communities of mojave and california

196
00:08:26,550 --> 00:08:24,720
city recently participated in the

197
00:08:28,550 --> 00:08:26,560
seventh annual intermediate space

198
00:08:36,949 --> 00:08:28,560
challenge rocket contest at the mojave

199
00:08:40,469 --> 00:08:38,469
the challenge introduced science

200
00:08:42,389 --> 00:08:40,479
technology engineering and math through

201
00:08:44,070 --> 00:08:42,399
the hands-on experience of building and

202
00:08:46,470 --> 00:08:44,080
launching a rocket

203
00:08:48,630 --> 00:08:46,480
21 classroom teams from mojave and

204
00:08:51,269 --> 00:08:48,640
hacienda elementary schools built their

205
00:08:52,949 --> 00:08:51,279
own rockets wrote essays and cheered in

206
00:08:55,430 --> 00:08:52,959
youthful exuberance as their rockets

207
00:08:57,190 --> 00:08:55,440
soared hundreds of feet into the air

208
00:08:59,110 --> 00:08:57,200
nasa dryden flight research center's

209
00:09:01,910 --> 00:08:59,120
education office supplied 10 of the

210
00:09:04,470 --> 00:09:01,920
rockets and gift bags for the winners

211
00:09:06,550 --> 00:09:04,480
since 2005 about a thousand students

212
00:09:08,230 --> 00:09:06,560
have participated in the annual events

213
00:09:10,630 --> 00:09:08,240

competing against their individual

214
00:09:12,630 --> 00:09:10,640
grades for the grand prize a traveling

215
00:09:14,470 --> 00:09:12,640
trophy that's awarded to the school

216
00:09:16,790 --> 00:09:14,480
scoring the highest overall average

217
00:09:19,430 --> 00:09:16,800
score

218
00:09:21,430 --> 00:09:19,440
and that's this week at nasa