1
00:00:07,040 --> 00:00:10,709
this we get nasa

2
00:00:17,590 --> 00:00:15,190
and launch of the spacex falcon 9 rocket

3
00:00:19,349 --> 00:00:17,600
the first ever commercial cargo resupply

4
00:00:21,670 --> 00:00:19,359
flight to the international space

5
00:00:24,230 --> 00:00:21,680
station by space exploration

6
00:00:26,230 --> 00:00:24,240
technologies corporation will also mark

7
00:00:28,390 --> 00:00:26,240
the return of the nation's ability to

8
00:00:29,589 --> 00:00:28,400
independently resupply the orbiting

9
00:00:32,069 --> 00:00:29,599
laboratory

10
00:00:34,470 --> 00:00:32,079
spacex's dragon spacecraft and its

11
00:00:36,310 --> 00:00:34,480
falcon 9 rocket sit poised at florida's

12
00:00:37,549 --> 00:00:36,320
cape canaveral air force station to

13
00:00:40,709 --> 00:00:37,559

carry out

14
00:00:43,750 --> 00:00:40,719
crs-1 the first of 12 missions to the

15
00:00:46,709 --> 00:00:43,760
iss under nasa's commercial resupply

16
00:00:48,389 --> 00:00:46,719
services contract the dragon cargo craft

17
00:00:51,189 --> 00:00:48,399
is loaded with a thousand pounds of

18
00:00:54,470 --> 00:00:51,199
supplies including critical materials to

19
00:00:56,310 --> 00:00:54,480
support the 166 investigations planned

20
00:00:59,590 --> 00:00:56,320
for the station's crew

21
00:01:02,869 --> 00:00:59,600
dragon will return about 734 pounds of

22
00:01:06,950 --> 00:01:02,879
scientific material and about 504 pounds

23
00:01:11,350 --> 00:01:09,109
discussing the dragon mission via a

24
00:01:13,990 --> 00:01:11,360
google plus hangout where nasa

25
00:01:15,990 --> 00:01:14,000
administrator charlie bolden and spacex

26
00:01:18,070 --> 00:01:16,000
ceo elon musk

27
00:01:20,789 --> 00:01:18,080
those who participated in the online

28
00:01:22,710 --> 00:01:20,799
video chat could also pose questions

29
00:01:24,950 --> 00:01:22,720
through twitter and facebook i think

30
00:01:27,109 --> 00:01:24,960
we've got 23 student experiments that's

31
00:01:29,590 --> 00:01:27,119
special uh you know some of them are

32
00:01:31,270 --> 00:01:29,600
making repeat flights and um

33
00:01:33,510 --> 00:01:31,280
you know it's spacex meeting an

34
00:01:35,990 --> 00:01:33,520
obligation to students that where we

35
00:01:38,950 --> 00:01:36,000
didn't we didn't get around to doing all

36
00:01:43,190 --> 00:01:40,789
one of those science investigations

37
00:01:45,830 --> 00:01:43,200
going up to station on dragon named

38
00:01:48,950 --> 00:01:45,840

micro 6 will look at the effects of

39
00:01:51,510 --> 00:01:48,960
microgravity on a yeast our bodies use

40
00:01:53,749 --> 00:01:51,520
to stay healthy but when our immune

41
00:01:56,310 --> 00:01:53,759
systems are stressed

42
00:01:58,709 --> 00:01:56,320
albicans can grow out of control and

43
00:02:01,510 --> 00:01:58,719
produce infections in the mouth throat

44
00:02:04,069 --> 00:02:01,520
intestines and elsewhere by comparing

45
00:02:06,950 --> 00:02:04,079
cells grown in microgravity to cells

46
00:02:09,190 --> 00:02:06,960
grown in normal gravity researchers hope

47
00:02:14,790 --> 00:02:09,200
to learn how to better manage and treat

48
00:02:18,710 --> 00:02:16,949
another important milestone in nasa's

49
00:02:20,710 --> 00:02:18,720
partnership with industry to deliver

50
00:02:22,550 --> 00:02:20,720
cargo to the international space station

51
00:02:25,190 --> 00:02:22,560
has been reached at the wallops flight

52
00:02:28,070 --> 00:02:25,200
facility a test version of orbital

53
00:02:30,229 --> 00:02:28,080
sciences corporation's antares rocket

54
00:02:32,869 --> 00:02:30,239
rolled out to the mid-atlantic regional

55
00:02:35,430 --> 00:02:32,879
spaceport's launch pad 0a

56
00:02:37,830 --> 00:02:35,440
antares will carry orbital's cygnus

57
00:02:40,869 --> 00:02:37,840
cargo module to the iss

58
00:02:43,350 --> 00:02:40,879
a hot fire test of antares first stage

59
00:02:46,070 --> 00:02:43,360
is slated for later this year to be

60
00:02:48,150 --> 00:02:46,080
followed first by an antares test launch

61
00:02:53,190 --> 00:02:48,160
then a demonstration flight of an

62
00:02:56,790 --> 00:02:55,110
hi my name is daniel illuminati i'm the

63
00:02:58,949 --> 00:02:56,800

surface sampling and science phase lead

64
00:03:00,229 --> 00:02:58,959
and this is your mars curiosity rover

65
00:03:02,070 --> 00:03:00,239
update

66
00:03:03,750 --> 00:03:02,080
curiosity still heading to glenelg we've

67
00:03:05,350 --> 00:03:03,760
just stopped at the bathhouse rock

68
00:03:06,790 --> 00:03:05,360
formation to check it out with the

69
00:03:09,190 --> 00:03:06,800
robotic arm mounted instruments a hand

70
00:03:10,550 --> 00:03:09,200
lens imager and a spectrometer

71
00:03:12,630 --> 00:03:10,560
got some great science data there for

72
00:03:14,869 --> 00:03:12,640
the science team and now we're moving to

73
00:03:16,309 --> 00:03:14,879
a new location called rock nest and

74
00:03:18,390 --> 00:03:16,319
we've come to rock nest because it has

75
00:03:20,149 --> 00:03:18,400
nice wind wind-blown sand drifts

76
00:03:23,350 --> 00:03:20,159
at the rock nest location we really are

77
00:03:24,869 --> 00:03:23,360
entering a new phase in mars exploration

78
00:03:26,550 --> 00:03:24,879
with curiosity

79
00:03:28,229 --> 00:03:26,560
we're starting the surface sampling part

80
00:03:30,789 --> 00:03:28,239
of the mission the reason this is a

81
00:03:32,630 --> 00:03:30,799
one-ton rover 200 pound

82
00:03:34,309 --> 00:03:32,640
robotic arm is because we have these

83
00:03:36,149 --> 00:03:34,319
tools to acquire

84
00:03:37,990 --> 00:03:36,159
bits of mars you know either with a

85
00:03:39,910 --> 00:03:38,000
scoop or with a drill process those

86
00:03:41,270 --> 00:03:39,920
samples for our

87
00:03:42,710 --> 00:03:41,280
very sensitive analytical lab

88
00:03:45,270 --> 00:03:42,720

instruments

89
00:03:47,190 --> 00:03:45,280
so our scoop this is not a giant backhoe

90
00:03:49,110 --> 00:03:47,200
on mars we basically have more like an

91
00:03:51,270 --> 00:03:49,120
oversized tablespoon attached to the end

92
00:03:54,309 --> 00:03:51,280
of the arm and we grab on the order of

93
00:03:57,270 --> 00:03:54,319
20 grams of material and we position the

94
00:03:58,070 --> 00:03:57,280
arm over the soil target and then we

95
00:04:00,390 --> 00:03:58,080
just

96
00:04:01,830 --> 00:04:00,400
actuate the the scoop

97
00:04:04,149 --> 00:04:01,840
do a little bit of vibration to kind of

98
00:04:06,229 --> 00:04:04,159
level out the sample and then

99
00:04:08,470 --> 00:04:06,239
raise the arm up close the scoop and

100
00:04:09,990 --> 00:04:08,480
carry on with our sampling activity

101
00:04:11,509 --> 00:04:10,000
over the next two to three weeks we'll

102
00:04:14,309 --> 00:04:11,519
be doing the scooping and sample

103
00:04:16,310 --> 00:04:14,319
analysis activities and then from there

104
00:04:18,870 --> 00:04:16,320
we expect to spend a few more weeks

105
00:04:20,870 --> 00:04:18,880
driving over to the glenelg area proper

106
00:04:23,110 --> 00:04:20,880
doing scratch and sift science along the

107
00:04:24,710 --> 00:04:23,120
way with a robotic arm

108
00:04:26,310 --> 00:04:24,720
and once we get to glenelg we'll look

109
00:04:28,550 --> 00:04:26,320
forward to some exciting first-time

110
00:04:30,790 --> 00:04:28,560
drilling activities this has been your

111
00:04:33,909 --> 00:04:30,800
mars curiosity rover update check back

112
00:04:38,550 --> 00:04:36,629
october is national cyber security

113
00:04:41,030 --> 00:04:38,560

awareness month and the chief

114
00:04:43,749 --> 00:04:41,040
information officers it security

115
00:04:46,550 --> 00:04:43,759
division at nasa headquarters hosted a

116
00:04:48,950 --> 00:04:46,560
symposium to stress for employees the

117
00:04:51,189 --> 00:04:48,960
importance of cyber security in our

118
00:04:53,749 --> 00:04:51,199
everyday lives not only

119
00:04:56,390 --> 00:04:53,759
is it such a special thing to be nasa

120
00:04:58,310 --> 00:04:56,400
but we actually do have access

121
00:05:01,350 --> 00:04:58,320
to technologies and information that

122
00:05:03,510 --> 00:05:01,360
people who do not mean us well

123
00:05:07,110 --> 00:05:03,520
would love to get the sophistication of

124
00:05:09,189 --> 00:05:07,120
attacks continue to increase every day

125
00:05:11,830 --> 00:05:09,199
nasa employees must be aware of these

126
00:05:14,310 --> 00:05:11,840
types of attacks in order to protect and

127
00:05:17,590 --> 00:05:14,320
safeguard our information to protect the

128
00:05:20,950 --> 00:05:17,600
agency's i.t infrastructure nasa workers

129
00:05:22,790 --> 00:05:20,960
are reminded to stop and think before

130
00:05:24,710 --> 00:05:22,800
they connect online

131
00:05:26,950 --> 00:05:24,720
several centers are conducting similar

132
00:05:32,310 --> 00:05:26,960
activities this month to raise cyber

133
00:05:35,990 --> 00:05:34,230
the countdown continues for the next

134
00:05:39,510 --> 00:05:36,000
crew to launch to the international

135
00:05:41,350 --> 00:05:39,520
space station expedition 3334 soyuz

136
00:05:43,270 --> 00:05:41,360
commander oleg novitskiy of the russian

137
00:05:45,909 --> 00:05:43,280
federal space agency

138
00:05:48,390 --> 00:05:45,919

nasa flight engineer kevin ford and

139
00:05:50,790 --> 00:05:48,400
russian flight engineer evgeny tarelkin

140
00:05:53,110 --> 00:05:50,800
are scheduled to ride a soyuz spacecraft

141
00:05:55,430 --> 00:05:53,120
to the iss mid-month

142
00:05:57,909 --> 00:05:55,440
there they'll join expedition 33

143
00:05:59,990 --> 00:05:57,919
commander suni williams of nasa flight

144
00:06:03,029 --> 00:06:00,000
engineer aki hoshide of the japan

145
00:06:05,510 --> 00:06:03,039
aerospace exploration agency and russian

146
00:06:07,350 --> 00:06:05,520
flight engineer yuri malenchenko aboard

147
00:06:12,550 --> 00:06:07,360
the world's only science lab in

148
00:06:17,670 --> 00:06:14,710
employees helping shape the future of

149
00:06:19,670 --> 00:06:17,680
their center and nasa that was the theme

150
00:06:21,430 --> 00:06:19,680
of the kennedy space center's first

151
00:06:23,430 --> 00:06:21,440
innovation expo

152
00:06:25,909 --> 00:06:23,440
the day-long event to promote worker

153
00:06:28,070 --> 00:06:25,919
innovation and creativity featured

154
00:06:31,510 --> 00:06:28,080
examples of workplace improvements by

155
00:06:34,309 --> 00:06:31,520
employees pitch sessions for new ideas

156
00:06:36,629 --> 00:06:34,319
and tours of laboratories and other ksc

157
00:06:38,710 --> 00:06:36,639
facilities not usually open to the

158
00:06:40,790 --> 00:06:38,720
general workforce

159
00:06:43,590 --> 00:06:40,800
innovation expo underscored for

160
00:06:49,189 --> 00:06:43,600
kennedy's workforce that it is the

161
00:06:53,029 --> 00:06:50,870
the mirror on nasa's stratospheric

162
00:06:54,950 --> 00:06:53,039
observatory for infrared astronomy was

163
00:06:57,990 --> 00:06:54,960

cleaned recently in preparation for the

164
00:07:00,790 --> 00:06:58,000
first full cycle of science observations

165
00:07:02,710 --> 00:07:00,800
because of the sensitive exposed optics

166
00:07:06,070 --> 00:07:02,720
the telescope cavity of the heavily

167
00:07:07,510 --> 00:07:06,080
modified 747 is designed to serve as a

168
00:07:09,589 --> 00:07:07,520
clean room

169
00:07:11,990 --> 00:07:09,599
however contamination of the optics

170
00:07:14,230 --> 00:07:12,000
builds up over time thus while the

171
00:07:16,469 --> 00:07:14,240
aircraft and its systems were upgraded

172
00:07:19,110 --> 00:07:16,479
at nasa's dryden aircraft operations

173
00:07:21,909 --> 00:07:19,120
facility in palmdale california

174
00:07:24,950 --> 00:07:21,919
telescope technicians used water a mild

175
00:07:27,909 --> 00:07:24,960
detergent and a small filtered blower to

176
00:07:30,629 --> 00:07:27,919
remove dust and other material that had

177
00:07:32,790 --> 00:07:30,639
adhered to the mirror's surface this is

178
00:07:35,589 --> 00:07:32,800
in preparation for the next astronomy

179
00:07:37,749 --> 00:07:35,599
observation period known as cycle one

180
00:07:43,110 --> 00:07:37,759
which will begin in late 2012 and

181
00:07:47,909 --> 00:07:45,589
the enterprise service desk at the nasa

182
00:07:50,550 --> 00:07:47,919
shared services center is now fully

183
00:07:53,510 --> 00:07:50,560
operational and supporting employees

184
00:07:56,790 --> 00:07:53,520
across the agency in human resources

185
00:07:59,589 --> 00:07:56,800
finance procurement and i.t

186
00:08:02,710 --> 00:07:59,599
we have self-service tools available and

187
00:08:05,749 --> 00:08:02,720
also i t call agents available

188
00:08:08,790 --> 00:08:05,759

24 hours a day for the nasa employee to

189
00:08:11,909 --> 00:08:08,800
submit service requests for the nasa it

190
00:08:14,230 --> 00:08:11,919
services such as computing seats mobile

191
00:08:17,430 --> 00:08:14,240
devices printers

192
00:08:20,790 --> 00:08:17,440
firewall rules static ip addresses and

193
00:08:33,990 --> 00:08:20,800
even bundled services for more about esd

194
00:08:39,269 --> 00:08:35,909
the waynley research center celebrated

195
00:08:41,430 --> 00:08:39,279
its 95th anniversary by hosting some

196
00:08:45,030 --> 00:08:41,440
thousand guests at its first open house

197
00:08:47,590 --> 00:08:45,040
in five years when you grow up

198
00:08:50,070 --> 00:08:47,600
visitors can meet the first mom in space

199
00:08:51,670 --> 00:08:50,080
astronaut and a fisher thank you

200
00:08:53,269 --> 00:08:51,680
talk with researchers about their

201
00:08:55,509 --> 00:08:53,279
projects that astronauts go out of these

202
00:08:57,509 --> 00:08:55,519
for a two week period and take a tour of

203
00:08:59,990 --> 00:08:57,519
facilities like the center's aircraft

204
00:09:02,790 --> 00:09:00,000
hangar the days highlight watching the

205
00:09:05,430 --> 00:09:02,800
18 thousand pound orion spacecraft test

206
00:09:16,630 --> 00:09:05,440
article dropped 25 feet into lane lee's

207
00:09:21,350 --> 00:09:18,790
in recognition of october as national

208
00:09:23,269 --> 00:09:21,360
stamp collecting month nasa and the u.s

209
00:09:25,590 --> 00:09:23,279
postal service held a ceremony at

210
00:09:28,630 --> 00:09:25,600
goddard space flight center to unveil a

211
00:09:30,550 --> 00:09:28,640
series of new stamps the 15 new

212
00:09:32,949 --> 00:09:30,560
earthscape forever stamps depict

213
00:09:35,670 --> 00:09:32,959

america's diverse landscapes as seen

214
00:09:37,829 --> 00:09:35,680
from aerial and satellite perspectives

215
00:09:40,230 --> 00:09:37,839
each stamp's unique perspective makes it

216
00:09:42,710 --> 00:09:40,240
a window into a world most of us never

217
00:09:45,190 --> 00:09:42,720
get to see at least not from land

218
00:09:47,670 --> 00:09:45,200
two of the images volcanic crater and

219
00:09:50,310 --> 00:09:47,680
center pivot irrigation were captured by

220
00:09:52,389 --> 00:09:50,320
nasa and the u.s geological survey's

221
00:09:54,790 --> 00:09:52,399
landsat 7 satellite

222
00:09:57,350 --> 00:09:54,800
the volcanic crater stamp depicts mount

223
00:10:00,310 --> 00:09:57,360
saint helens as it continues to recover

224
00:10:02,630 --> 00:10:00,320
from its may 1980 eruption while the

225
00:10:04,949 --> 00:10:02,640
latter shows circular irrigation

226
00:10:06,550 --> 00:10:04,959
patterns of crops in kansas

227
00:10:09,110 --> 00:10:06,560
goddard space flight center launched the

228
00:10:11,110 --> 00:10:09,120
first weather satellite tyros won almost

229
00:10:12,230 --> 00:10:11,120
50 years ago so we started looking at

230
00:10:14,870 --> 00:10:12,240
the earth

231
00:10:16,710 --> 00:10:14,880
many many years ago using global imagery

232
00:10:18,710 --> 00:10:16,720
to understand how the earth changes

233
00:10:20,949 --> 00:10:18,720
through time and the implications of

234
00:10:23,509 --> 00:10:20,959
those changes is a major focus for

235
00:10:25,910 --> 00:10:23,519
nasa's earth science program the next

236
00:10:27,910 --> 00:10:25,920
landsat satellite the landsat data

237
00:10:39,269 --> 00:10:27,920
continuity mission is scheduled to

238
00:10:44,870 --> 00:10:42,870

ten years ago on october 7 2002

239
00:10:49,030 --> 00:10:44,880
space shuttle atlantis launched from the

240
00:10:50,710 --> 00:10:49,040
kennedy space center on sts-112 the 15th

241
00:10:52,430 --> 00:10:50,720
shuttle flight to the international

242
00:10:54,949 --> 00:10:52,440
space station

243
00:10:56,630 --> 00:10:54,959
sts-112 was the first shuttle flight to

244
00:10:59,269 --> 00:10:56,640
provide views of the launch from a

245
00:11:02,630 --> 00:10:59,279
camera mounted on the external tank

246
00:11:05,590 --> 00:11:02,640
atlantis crew commander jeff ashby pilot

247
00:11:08,470 --> 00:11:05,600
pam melroy and mission specialist sandy

248
00:11:11,269 --> 00:11:08,480
magnus piers sellers david wolf and

249
00:11:13,430 --> 00:11:11,279
fyodor yurchikhin continued construction

250
00:11:16,550 --> 00:11:13,440
of the iss by delivering the third

251
00:11:19,509 --> 00:11:16,560
segment of the station's 11-piece truss

252
00:11:22,069 --> 00:11:19,519
the crew also transferred cargo and used

253
00:11:25,269 --> 00:11:22,079
the shuttle's thruster jets to raise the

254
00:11:31,110 --> 00:11:28,870
and october 5th is the 130th anniversary

255
00:11:33,670 --> 00:11:31,120
of the birth of dr robert hutchings

256
00:11:34,949 --> 00:11:33,680
goddard the father of modern rocket

257
00:11:37,350 --> 00:11:34,959
propulsion

258
00:11:39,829 --> 00:11:37,360
goddard is credited with creating and

259
00:11:42,230 --> 00:11:39,839
building the world's first liquid-fueled

260
00:11:46,150 --> 00:11:42,240
rocket which he successfully launched on

261
00:11:47,590 --> 00:11:46,160
march 16 1926 from a field in auburn

262
00:11:50,310 --> 00:11:47,600
massachusetts

263
00:11:54,069 --> 00:11:50,320

goddard and his team launched 34 rockets

264
00:11:55,750 --> 00:11:54,079
between 1926 and 1941

265
00:11:58,470 --> 00:11:55,760
named for the noted scientist and

266
00:12:05,750 --> 00:11:58,480
rocketeer is nasa's goddard space flight

267
00:12:10,710 --> 00:12:08,230
hi my name is cassie rodriguez

268
00:12:11,670 --> 00:12:10,720
i grew up in corpus christi texas which

269
00:12:15,030 --> 00:12:11,680
is

270
00:12:16,629 --> 00:12:15,040
a bit south here in houston um

271
00:12:20,150 --> 00:12:16,639
so a great city that's where a texas

272
00:12:23,910 --> 00:12:22,150
being oso that's a console position in

273
00:12:25,350 --> 00:12:23,920
mission control stands for operational

274
00:12:27,269 --> 00:12:25,360
support officer

275
00:12:29,509 --> 00:12:27,279
we're responsible for all the iva

276
00:12:31,269 --> 00:12:29,519
maintenance that's done on for the space

277
00:12:32,470 --> 00:12:31,279
station

278
00:12:38,470 --> 00:12:32,480
robonaut

279
00:12:40,870 --> 00:12:38,480
launched in september of 2011.

280
00:12:43,509 --> 00:12:40,880
what my project is is we're working on

281
00:12:47,350 --> 00:12:43,519
developing the training products and

282
00:12:49,350 --> 00:12:47,360
the procedures to give him some legs

283
00:12:52,150 --> 00:12:49,360
with these legs he'll have the ability

284
00:12:53,910 --> 00:12:52,160
to move anywhere on station

285
00:12:55,509 --> 00:12:53,920
i hope to continue

286
00:12:57,590 --> 00:12:55,519
supporting the international space

287
00:13:00,550 --> 00:12:57,600
station hopefully supporting future

288
00:13:02,470 --> 00:13:00,560

projects that help human exploration

289
00:13:04,230 --> 00:13:02,480
hopefully getting us to the moon or to

290
00:13:05,190 --> 00:13:04,240
mars

291
00:13:07,430 --> 00:13:05,200
and

292
00:13:09,590 --> 00:13:07,440
helping design those vehicles so that

293
00:13:11,670 --> 00:13:09,600
they can be better maintained i have a

294
00:13:14,550 --> 00:13:11,680
lot of maintenance practice

295
00:13:15,990 --> 00:13:14,560
working with the space station and um

296
00:13:17,910 --> 00:13:16,000
we're going to need to be able to fix

297
00:13:20,550 --> 00:13:17,920
things if we do go to the moon and mars

298
00:13:22,710 --> 00:13:20,560
so i hope to contribute to that in the

299
00:13:25,509 --> 00:13:22,720
future

300
00:13:27,750 --> 00:13:25,519
and that's this week at nasa for more on

301
00:13:30,230 --> 00:13:27,760
these and other stories or to follow us

302
00:13:32,190 --> 00:13:30,240
on facebook twitter and other social