
COMMERCIAL
CREW
LAUNCH AMERICA
#LaunchAmerica
NASA
SUNI WILLIAMS

1
00:00:18,550 --> 00:00:16,470
you ever have a huge task and realize

2
00:00:20,230 --> 00:00:18,560
that you couldn't do it alone

3
00:00:22,150 --> 00:00:20,240
and then you figured out that it made

4
00:00:24,630 --> 00:00:22,160
more sense to work with partners so you

5
00:00:27,189 --> 00:00:24,640
could complete that enormous project

6
00:00:28,470 --> 00:00:27,199
well it's like that on the international

7
00:00:31,349 --> 00:00:28,480
space station

8
00:00:33,910 --> 00:00:31,359
think global partnership it's the only

9
00:00:35,350 --> 00:00:33,920
way to take on something so big but

10
00:00:37,350 --> 00:00:35,360
that's not all

11
00:00:39,990 --> 00:00:37,360
the u.s portion of the international

12
00:00:42,470 --> 00:00:40,000
space station is an official u.s

13
00:00:45,270 --> 00:00:42,480

national lab and it's open for business

14
00:00:47,750 --> 00:00:45,280
to the private sector add to that we

15
00:00:49,910 --> 00:00:47,760
have two new vehicles in development by

16
00:00:51,670 --> 00:00:49,920
two commercial companies to get us back

17
00:00:54,229 --> 00:00:51,680
and forth to the iss

18
00:00:57,430 --> 00:00:54,239
it's true nasa has partnered with boeing

19
00:00:59,590 --> 00:00:57,440
and spacex to give our astronauts a ride

20
00:01:02,630 --> 00:00:59,600
we're talking global partnerships and

21
00:01:05,109 --> 00:01:02,640
commercialization on today's episode hi

22
00:01:19,749 --> 00:01:05,119
i'm nasa astronaut tracy dyson welcome

23
00:01:23,990 --> 00:01:22,070
welcome back in this episode of station

24
00:01:26,390 --> 00:01:24,000
life we're going to focus on global

25
00:01:28,710 --> 00:01:26,400
partnerships and commercialization

26
00:01:31,030 --> 00:01:28,720
so what does this mean really well the

27
00:01:33,830 --> 00:01:31,040
international space station came about

28
00:01:35,910 --> 00:01:33,840
due to a global partnership between

29
00:01:38,310 --> 00:01:35,920
15 countries and international

30
00:01:40,149 --> 00:01:38,320
cooperation is the name of the game

31
00:01:42,230 --> 00:01:40,159
the iss program's greatest

32
00:01:44,789 --> 00:01:42,240
accomplishment is as much a human

33
00:01:47,910 --> 00:01:44,799
achievement as it is a technological one

34
00:01:49,990 --> 00:01:47,920
how best to plan coordinate and monitor

35
00:01:51,910 --> 00:01:50,000
the varied activities of the program's

36
00:01:53,190 --> 00:01:51,920
many organizations

37
00:01:54,469 --> 00:01:53,200
over the past

38
00:01:56,550 --> 00:01:54,479

15 years

39
00:01:57,590 --> 00:01:56,560
highly skilled astronauts and cosmonauts

40
00:01:59,830 --> 00:01:57,600
from these

41
00:02:01,270 --> 00:01:59,840
15 countries have risked their lives to

42
00:02:03,749 --> 00:02:01,280
conduct over

43
00:02:06,469 --> 00:02:03,759
1700 science investigations in one of

44
00:02:08,630 --> 00:02:06,479
the harshest work environments around

45
00:02:11,190 --> 00:02:08,640
in this episode we're going to see how

46
00:02:12,790 --> 00:02:11,200
we are stronger together through global

47
00:02:14,949 --> 00:02:12,800
partnerships and international

48
00:02:17,430 --> 00:02:14,959
cooperation we're going to learn about

49
00:02:19,270 --> 00:02:17,440
the commercialization of low earth orbit

50
00:02:21,589 --> 00:02:19,280
and how the private sector research on

51
00:02:23,910 --> 00:02:21,599
iss is managed through the center for

52
00:02:25,030 --> 00:02:23,920
the advancement of science and space

53
00:02:26,550 --> 00:02:25,040
cases

54
00:02:28,710 --> 00:02:26,560
we'll also check in with the commercial

55
00:02:30,550 --> 00:02:28,720
crew program and meet the astronauts

56
00:02:33,670 --> 00:02:30,560
chosen to fly our next generation of

57
00:02:36,550 --> 00:02:33,680
vehicles built by boeing and spacex next

58
00:02:39,110 --> 00:02:36,560
up a little ditty about the latest iss

59
00:02:42,550 --> 00:02:39,120
facts and figures and a music video

60
00:02:43,350 --> 00:02:42,560
featuring 93 million miles by jason mraz

61
00:02:46,070 --> 00:02:43,360
so

62
00:02:48,150 --> 00:02:46,080
strap yourself in and get ready we're

63
00:02:53,110 --> 00:02:48,160

having a cavalcade of information coming

64
00:02:57,110 --> 00:02:55,670
it took 41 rocket launches just to bring

65
00:02:59,830 --> 00:02:57,120
the building materials to the

66
00:03:02,229 --> 00:02:59,840
construction site and more than 100

67
00:03:04,309 --> 00:03:02,239
other launches along the way to ferry up

68
00:03:06,229 --> 00:03:04,319
the human crew members and deliver the

69
00:03:08,390 --> 00:03:06,239
supplies they would need to live and

70
00:03:10,630 --> 00:03:08,400
work

71
00:03:13,670 --> 00:03:10,640
the largest peacetime engineering and

72
00:03:15,350 --> 00:03:13,680
construction project in human history

73
00:03:17,110 --> 00:03:15,360
and it wouldn't have happened if the

74
00:03:19,589 --> 00:03:17,120
nations of the world hadn't joined

75
00:03:22,070 --> 00:03:19,599
forces but they did

76
00:03:24,390 --> 00:03:22,080
and that cooperative spirit is alive and

77
00:03:44,630 --> 00:03:24,400
thriving right now

78
00:03:48,550 --> 00:03:46,789
the major space agencies of the world

79
00:03:50,550 --> 00:03:48,560
each have their own independent

80
00:03:52,789 --> 00:03:50,560
exploration program

81
00:03:55,110 --> 00:03:52,799
yet they work together on one project

82
00:03:56,229 --> 00:03:55,120
that's vital to humankind's future in

83
00:03:58,309 --> 00:03:56,239
space

84
00:04:00,390 --> 00:03:58,319
operating a joint research laboratory

85
00:04:03,509 --> 00:04:00,400
and technology development station

86
00:04:06,869 --> 00:04:03,519
250 miles above the earth

87
00:04:09,270 --> 00:04:06,879
the united states russia japan

88
00:04:11,030 --> 00:04:09,280

canada and the nations of europe each

89
00:04:13,030 --> 00:04:11,040
provide and train crew members who

90
00:04:15,429 --> 00:04:13,040
operate this space station

91
00:04:17,749 --> 00:04:15,439
we have come to know each other very

92
00:04:19,830 --> 00:04:17,759
well to really um enjoy each other's

93
00:04:38,469 --> 00:04:19,840
company enjoy working together

94
00:04:43,990 --> 00:04:40,629
i think each country has

95
00:04:46,550 --> 00:04:44,000
it's unique like strength and good part

96
00:04:48,950 --> 00:04:46,560
and also like a weakness

97
00:04:52,550 --> 00:04:48,960
so if we cooperate each other we can

98
00:04:54,870 --> 00:04:52,560
cover the other nations with heart and

99
00:04:56,469 --> 00:04:54,880
help each other

100
00:04:58,230 --> 00:04:56,479
over the years the partners have

101
00:05:00,870 --> 00:04:58,240
contributed the vehicles that bring

102
00:05:02,950 --> 00:05:00,880
human beings to orbit and the ones that

103
00:05:04,150 --> 00:05:02,960
make regular deliveries of supplies and

104
00:05:06,150 --> 00:05:04,160
materials

105
00:05:08,390 --> 00:05:06,160
plus all the hardware and samples to

106
00:05:10,230 --> 00:05:08,400
operate a set of scientific laboratories

107
00:05:12,790 --> 00:05:10,240
and experiments that are achieving

108
00:05:15,029 --> 00:05:12,800
things that couldn't be done on earth

109
00:05:17,350 --> 00:05:15,039
the results in terms of science and

110
00:05:18,469 --> 00:05:17,360
technology development are out of this

111
00:05:20,390 --> 00:05:18,479
world

112
00:05:22,150 --> 00:05:20,400
having different perspectives either

113
00:05:24,390 --> 00:05:22,160

different scientific perspectives

114
00:05:26,469 --> 00:05:24,400
different international perspectives has

115
00:05:28,469 --> 00:05:26,479
helped bring strength to the work that

116
00:05:30,390 --> 00:05:28,479
we do we've gotten to work with some

117
00:05:32,390 --> 00:05:30,400
incredible people around the globe and

118
00:05:34,310 --> 00:05:32,400
that that we found what we think are

119
00:05:36,070 --> 00:05:34,320
some significant findings the alpha

120
00:05:37,990 --> 00:05:36,080
magnetic spectrometer is a high energy

121
00:05:40,550 --> 00:05:38,000
particle physics experiment designed to

122
00:05:43,270 --> 00:05:40,560
study cosmic rays antimatter dark matter

123
00:05:45,510 --> 00:05:43,280
and dark energy there's 15 countries

124
00:05:47,670 --> 00:05:45,520
about 600 engineers physicists

125
00:05:49,990 --> 00:05:47,680
scientists technicians about 60

126
00:05:52,230 --> 00:05:50,000
different institutes universities all

127
00:05:54,070 --> 00:05:52,240
over the planet you get the interaction

128
00:05:55,430 --> 00:05:54,080
of all these people and in the end you

129
00:05:57,830 --> 00:05:55,440
have something that's a whole lot better

130
00:06:00,230 --> 00:05:57,840
than what you've done by yourself

131
00:06:02,390 --> 00:06:00,240
each space agency takes responsibility

132
00:06:04,629 --> 00:06:02,400
for a part of the mission by operating a

133
00:06:07,110 --> 00:06:04,639
control room in their own country which

134
00:06:08,870 --> 00:06:07,120
focuses on daily operations in their own

135
00:06:11,350 --> 00:06:08,880
labs and modules

136
00:06:13,990 --> 00:06:11,360
the heart of the overall operation is at

137
00:06:15,830 --> 00:06:14,000
nasa's mission control center in houston

138
00:06:17,430 --> 00:06:15,840

where a team coordinates what all the

139
00:06:19,590 --> 00:06:17,440
partners are doing

140
00:06:21,590 --> 00:06:19,600
the yes plan team takes all of the

141
00:06:24,230 --> 00:06:21,600
requirements handed down from the iss

142
00:06:25,749 --> 00:06:24,240
program from the international partners

143
00:06:28,070 --> 00:06:25,759
from the flight control team and from

144
00:06:29,670 --> 00:06:28,080
the science community and we integrate

145
00:06:32,230 --> 00:06:29,680
all of those requirements into a

146
00:06:34,790 --> 00:06:32,240
timeline and we uplink it to the crew

147
00:06:36,790 --> 00:06:34,800
and that's how the crew knows what to do

148
00:06:39,110 --> 00:06:36,800
on a given day

149
00:06:41,430 --> 00:06:39,120
with all that effort over all these

150
00:06:43,270 --> 00:06:41,440
years the partners in the international

151
00:06:45,430 --> 00:06:43,280
space station have created something

152
00:06:47,430 --> 00:06:45,440
that's already provided benefits on

153
00:06:49,430 --> 00:06:47,440
earth and encourage the growth of a

154
00:06:51,749 --> 00:06:49,440
commercial space industry

155
00:06:53,670 --> 00:06:51,759
and is perfectly positioned

156
00:06:56,469 --> 00:06:53,680
to continue that mission

157
00:06:58,390 --> 00:06:56,479
supporting future human exploration into

158
00:07:01,189 --> 00:06:58,400
deep space if you think about all the

159
00:07:03,589 --> 00:07:01,199
capabilities on the space station today

160
00:07:06,070 --> 00:07:03,599
it brought out the best in each of the

161
00:07:08,629 --> 00:07:06,080
partners the only way for exploration to

162
00:07:11,990 --> 00:07:08,639
be successful is to have that global

163
00:07:13,909 --> 00:07:12,000

partnership together as we have had so

164
00:07:15,270 --> 00:07:13,919
far with space station

165
00:07:18,469 --> 00:07:15,280
we're going to use the technology of the

166
00:07:20,390 --> 00:07:18,479
atv five very successful iss resupply

167
00:07:22,469 --> 00:07:20,400
missions to make this incredible

168
00:07:23,670 --> 00:07:22,479
contribution to the orion spacecraft the

169
00:07:26,070 --> 00:07:23,680
service module

170
00:07:29,110 --> 00:07:26,080
will be a very critical part to the

171
00:07:31,270 --> 00:07:29,120
orion spacecraft it will provide power

172
00:07:32,390 --> 00:07:31,280
it will provide thermal control

173
00:07:35,029 --> 00:07:32,400
and most importantly will provide

174
00:07:36,790 --> 00:07:35,039
propulsion to the crew module

175
00:07:38,309 --> 00:07:36,800
building on the robotic technology we

176
00:07:40,550 --> 00:07:38,319
developed to support the space shuttle

177
00:07:42,150 --> 00:07:40,560
program and then to build to assemble

178
00:07:44,230 --> 00:07:42,160
the space station

179
00:07:46,629 --> 00:07:44,240
canada's developed a next generation

180
00:07:48,390 --> 00:07:46,639
canadarm this is a state of the art

181
00:07:49,270 --> 00:07:48,400
suite of robotics prototypes that will

182
00:07:51,749 --> 00:07:49,280
be

183
00:08:10,629 --> 00:07:51,759
able to support the critical next steps

184
00:08:24,790 --> 00:08:13,350
and a common goal combined for a great

185
00:08:28,710 --> 00:08:26,469
carl sagan talked about the pale blue

186
00:08:30,309 --> 00:08:28,720
dot and recently the curiosity rover

187
00:08:33,110 --> 00:08:30,319
took a lovely picture of earth and the

188
00:08:34,709 --> 00:08:33,120

moon above up the horizon of mars

189
00:08:36,230 --> 00:08:34,719
and it was clear looking at the photo

190
00:08:37,589 --> 00:08:36,240
under the best possible magnification

191
00:08:38,790 --> 00:08:37,599
you couldn't tell which side of it we

192
00:08:40,550 --> 00:08:38,800
came from

193
00:08:43,909 --> 00:08:40,560
and yet it's an inspiring photo for all

194
00:08:45,829 --> 00:08:43,919
of humanity uh i think that as we create

195
00:08:46,870 --> 00:08:45,839
our little microcosms our little worlds

196
00:08:49,030 --> 00:08:46,880
out there

197
00:08:51,509 --> 00:08:49,040
they have to reflect the world that we

198
00:08:53,190 --> 00:08:51,519
come from and that all the cultures and

199
00:08:54,630 --> 00:08:53,200
all of the backgrounds and all of the

200
00:08:56,949 --> 00:08:54,640
gifts that we bring

201
00:08:59,030 --> 00:08:56,959
different points of view are essential

202
00:09:00,550 --> 00:08:59,040
in any high functioning world you need a

203
00:09:03,509 --> 00:09:00,560
diversity of opinion you need a

204
00:09:04,870 --> 00:09:03,519
diversity of of thought and creativity

205
00:09:07,269 --> 00:09:04,880
and i think that's what the partnership

206
00:09:09,190 --> 00:09:07,279
brings we all have a common dream and we

207
00:09:10,389 --> 00:09:09,200
all have different paths to get there

208
00:09:20,550 --> 00:09:10,399
and those paths go through the

209
00:09:24,870 --> 00:09:22,870
what is cases

210
00:09:27,430 --> 00:09:24,880
cases is the center for the advancement

211
00:09:29,509 --> 00:09:27,440
of science in space and it manages the

212
00:09:31,110 --> 00:09:29,519
national laboratory on the international

213
00:09:33,590 --> 00:09:31,120

space station

214
00:09:36,310 --> 00:09:33,600
cases is launching a new era of space

215
00:09:38,389 --> 00:09:36,320
research to help reduce cost increasing

216
00:09:40,870 --> 00:09:38,399
access and opportunity

217
00:09:43,670 --> 00:09:40,880
cases is your gateway to innovation

218
00:09:45,750 --> 00:09:43,680
breakthroughs commercial r d research

219
00:09:48,829 --> 00:09:45,760
giving scientific commercial and

220
00:09:52,790 --> 00:09:48,839
educational industries equal access to

221
00:09:54,710 --> 00:09:52,800
space for the betterment of humankind

222
00:09:56,389 --> 00:09:54,720
cases is appointed by congress to

223
00:09:58,550 --> 00:09:56,399
identify the opportunities for the

224
00:10:00,630 --> 00:09:58,560
international space station to take

225
00:10:03,030 --> 00:10:00,640
advantage of its unique environments to

226
00:10:05,590 --> 00:10:03,040
generate a return on investments

227
00:10:07,590 --> 00:10:05,600
not only financially but to improve life

228
00:10:09,269 --> 00:10:07,600
on earth as well for the citizens of the

229
00:10:12,150 --> 00:10:09,279
united states

230
00:10:13,829 --> 00:10:12,160
we do this by breaking down barriers

231
00:10:15,990 --> 00:10:13,839
assisting in research

232
00:10:17,829 --> 00:10:16,000
connecting hardware

233
00:10:18,949 --> 00:10:17,839
and funding

234
00:10:34,550 --> 00:10:18,959
cases

235
00:10:34,560 --> 00:10:58,790
hello

236
00:11:03,509 --> 00:11:00,470
one of nasa's goals is to help

237
00:11:04,949 --> 00:11:03,519
commercialize low earth orbit guess what

238
00:11:08,470 --> 00:11:04,959

that's where the international space

239
00:11:11,030 --> 00:11:08,480
station is low earth orbit the iss

240
00:11:14,069 --> 00:11:11,040
absolutely requires methods to get cargo

241
00:11:16,069 --> 00:11:14,079
and crew to and from the station right

242
00:11:18,630 --> 00:11:16,079
now there are two commercial companies

243
00:11:21,509 --> 00:11:18,640
flying cargo for nasa they're orbital

244
00:11:24,150 --> 00:11:21,519
science services and spacex the next

245
00:11:26,389 --> 00:11:24,160
step is to have commercial crew vehicles

246
00:11:29,750 --> 00:11:26,399
that's right new rockets to get us

247
00:11:32,470 --> 00:11:29,760
astronauts to the iss in fact two new

248
00:11:34,389 --> 00:11:32,480
vehicles are in development the cst-100

249
00:11:36,710 --> 00:11:34,399
from boeing and the crew dragon from

250
00:11:52,790 --> 00:11:36,720
spacex now let's hear from the crew

251
00:11:57,110 --> 00:11:54,949
we've come to this program with

252
00:11:58,710 --> 00:11:57,120
different backgrounds and different

253
00:12:01,110 --> 00:11:58,720
experiences

254
00:12:03,430 --> 00:12:01,120
we have a chance to build upon a new

255
00:12:05,350 --> 00:12:03,440
launch capability for america

256
00:12:06,870 --> 00:12:05,360
we're part of a partnership and part of

257
00:12:08,710 --> 00:12:06,880
the partnership is to have different

258
00:12:10,870 --> 00:12:08,720
abilities and so the united states

259
00:12:12,150 --> 00:12:10,880
having access is extremely important to

260
00:12:13,910 --> 00:12:12,160
the effort

261
00:12:15,990 --> 00:12:13,920
one of the things that really gave us

262
00:12:17,750 --> 00:12:16,000
the opportunity to to be ready for this

263
00:12:19,269 --> 00:12:17,760

is all those systems on the space

264
00:12:20,870 --> 00:12:19,279
station or on the space shuttle that we

265
00:12:22,790 --> 00:12:20,880
had to learn in order to be prepared for

266
00:12:24,949 --> 00:12:22,800
a space flight so it really has set us

267
00:12:33,910 --> 00:12:24,959
up for a mindset of learning new things

268
00:12:38,470 --> 00:12:35,990
we have a huge team here at nasa as well

269
00:12:40,310 --> 00:12:38,480
as the great teams at spacex and boeing

270
00:12:43,190 --> 00:12:40,320
that we'll work with to try to make this

271
00:12:44,629 --> 00:12:43,200
vehicle as safe as possible

272
00:12:46,550 --> 00:12:44,639
building that partnership that

273
00:12:48,150 --> 00:12:46,560
relationship where we are

274
00:12:49,910 --> 00:12:48,160
shoulder to shoulder with these

275
00:12:51,110 --> 00:12:49,920
companies as they build this vehicle is

276
00:12:52,949 --> 00:12:51,120
really going to be how we're

277
00:12:54,310 --> 00:12:52,959
instrumental in making sure the vehicles

278
00:12:56,230 --> 00:12:54,320
are ready for the first flights when the

279
00:12:57,829 --> 00:12:56,240
time comes

280
00:13:00,389 --> 00:12:57,839
i'm honored to get the opportunity to

281
00:13:02,230 --> 00:13:00,399
participate with this new group and to

282
00:13:05,269 --> 00:13:02,240
work with a team to get us onto this

283
00:13:07,590 --> 00:13:05,279
next era in space flight

284
00:13:10,069 --> 00:13:07,600
i remember when i launched from kennedy

285
00:13:12,310 --> 00:13:10,079
the first time on a u.s space shuttle

286
00:13:14,150 --> 00:13:12,320
and it was pretty amazing so i can only

287
00:13:17,030 --> 00:13:14,160
imagine what it's going to be like after

288
00:13:19,670 --> 00:13:17,040

this long period of time to get back on

289
00:13:22,150 --> 00:13:19,680
a spacecraft at kennedy and have all

290
00:13:23,750 --> 00:13:22,160
family and friends and people from all

291
00:13:25,269 --> 00:13:23,760
over the country watching that's going

292
00:13:27,030 --> 00:13:25,279
to be pretty special

293
00:13:29,110 --> 00:13:27,040
and so bringing back home will bring

294
00:13:54,389 --> 00:13:29,120
that back home to everybody here it'll

295
00:13:58,389 --> 00:13:55,189
one

296
00:13:59,590 --> 00:13:58,399
zero and liftoff the final liftoff of

297
00:14:01,910 --> 00:13:59,600
atlantis

298
00:14:19,590 --> 00:14:01,920
shoulders of the space shuttle america

299
00:14:19,600 --> 00:14:49,670
yes

300
00:14:49,680 --> 00:15:12,389
so

301
00:16:31,829 --> 00:15:15,110
three two one and we have liftoff

302
00:16:38,230 --> 00:16:34,710
the international space station

303
00:16:41,749 --> 00:16:38,240
humanities lasting home in space

304
00:16:44,310 --> 00:16:41,759
in the ultimate emerging market

305
00:16:47,110 --> 00:16:44,320
its unique environments offer unrivaled

306
00:16:49,110 --> 00:16:47,120
opportunities for scientific discovery

307
00:16:51,269 --> 00:16:49,120
casey's mission is to seek out those

308
00:16:54,949 --> 00:16:51,279
ready to put their ideas into orbit and

309
00:17:17,029 --> 00:16:57,749
welcome to cases bringing home the magic

310
00:17:17,039 --> 00:17:42,710
saying

311
00:17:45,590 --> 00:17:43,909
you know what

312
00:17:49,830 --> 00:17:45,600
there have been people living on the

313
00:17:51,750 --> 00:17:49,840

international space station for 15 years

314
00:17:55,350 --> 00:17:51,760
the first crew headed to the iss

315
00:17:57,430 --> 00:17:55,360
launched on october 31st the year 2000.

316
00:17:59,590 --> 00:17:57,440
so much has happened since then there is

317
00:18:01,669 --> 00:17:59,600
no way we can recap all of that so

318
00:18:04,549 --> 00:18:01,679
instead we're going to have our first

319
00:18:06,870 --> 00:18:04,559
ever music video segment to start it off

320
00:18:09,590 --> 00:18:06,880
we'll see the latest iss facts and

321
00:18:16,870 --> 00:18:09,600
figures music video followed by 93

322
00:18:25,110 --> 00:18:20,789
well here's a few facts about the iss

323
00:18:28,070 --> 00:18:25,120
that 15 countries made a success

324
00:18:32,070 --> 00:18:28,080
took a lot of space flights for us to

325
00:18:35,830 --> 00:18:32,080
build a station as big as a football

326
00:18:43,669 --> 00:18:40,150
two john's on board but they got no bath

327
00:18:48,070 --> 00:18:43,679
orbits the earth in an hour and a half

328
00:18:53,350 --> 00:18:48,080
over 200 miles up off the ground and

329
00:18:57,830 --> 00:18:53,360
tipping them scales at a million pounds

330
00:19:01,590 --> 00:18:57,840
making benefits for humanity

331
00:19:05,830 --> 00:19:01,600
through new science and technology

332
00:19:10,630 --> 00:19:05,840
over 200 people have lived on board the

333
00:19:43,110 --> 00:19:13,430
space that is off the earth for the

334
00:19:43,120 --> 00:19:58,549
bye

335
00:19:58,559 --> 00:20:06,390
do

336
00:20:12,950 --> 00:20:09,909
93 million miles from the sun

337
00:20:16,549 --> 00:20:12,960
people get ready to get ready cause here

338
00:20:30,470 --> 00:20:16,559

it comes it's a light a beautiful light

339
00:20:35,750 --> 00:20:33,029
if you do it right you'll love where you

340
00:20:39,350 --> 00:20:35,760
are

341
00:20:54,270 --> 00:20:41,830
wherever you go

342
00:21:01,270 --> 00:20:58,310
240 000 miles from the moon we've come a

343
00:21:04,549 --> 00:21:01,280
long way to belong here to share this

344
00:21:07,990 --> 00:21:04,559
view of the night of glorious tonight

345
00:21:14,950 --> 00:21:08,000
over the horizon is another bright sky

346
00:21:19,270 --> 00:21:16,390
son house

347
00:21:53,270 --> 00:21:19,280
it may seem dark but the absence of the

348
00:21:58,950 --> 00:21:56,549
every road is a slippery slope

349
00:22:01,190 --> 00:21:58,960
there is always a hand that you can hold

350
00:22:03,350 --> 00:22:01,200
on to looking deeper through the

351
00:22:05,909 --> 00:22:03,360
telescope

352
00:22:08,310 --> 00:22:05,919
you could see that your home's inside of

353
00:22:35,669 --> 00:22:08,320
you

354
00:22:35,679 --> 00:22:38,470
thanks alex

355
00:22:38,480 --> 00:22:53,990
thanks for getting me home

356
00:23:00,470 --> 00:22:57,430
93 million miles from the sun

357
00:23:03,990 --> 00:23:00,480
people get ready to get ready cause here

358
00:23:18,470 --> 00:23:04,000
it comes it's a light a beautiful light

359
00:23:22,230 --> 00:23:20,549
welcome back and thanks for watching

360
00:23:23,909 --> 00:23:22,240
this episode of station life

361
00:23:25,430 --> 00:23:23,919
highlighting global partnerships and

362
00:23:27,510 --> 00:23:25,440
commercialization

363
00:23:28,950 --> 00:23:27,520

today we learned how we're stronger

364
00:23:31,590 --> 00:23:28,960
together through international

365
00:23:33,270 --> 00:23:31,600
cooperation and global partnership

366
00:23:36,310 --> 00:23:33,280
we learned about the commercialization

367
00:23:39,270 --> 00:23:36,320
efforts of the iss managed by cases and

368
00:23:40,710 --> 00:23:39,280
nasa's commercial crew and cargo program

369
00:23:42,549 --> 00:23:40,720
we got a sneak peek at the new

370
00:23:45,269 --> 00:23:42,559
commercial crew vehicles developed by

371
00:23:46,950 --> 00:23:45,279
boeing and spacex and our very first

372
00:23:48,470 --> 00:23:46,960
music video segment

373
00:23:51,110 --> 00:23:48,480
we keep delivering the goods here on

374
00:23:52,789 --> 00:23:51,120
station life so be sure to stay in touch

375
00:23:54,789 --> 00:23:52,799
and follow us on facebook and twitter

376
00:23:57,190 --> 00:23:54,799
for the latest research news and don't

377
00:23:59,990 --> 00:23:57,200
forget to download our kiknap on your

378
00:24:02,830 --> 00:24:00,000
mobile device until next time stay with

379
00:24:05,029 --> 00:24:02,840
us off the earth for the