



1
00:00:06,710 --> 00:00:03,510
a hangar at ellington field in houston

2
00:00:08,549 --> 00:00:06,720
empty now but just minutes from now a

3
00:00:10,629 --> 00:00:08,559
nasa plane will be pulling in with the

4
00:00:13,669 --> 00:00:10,639
one-year crew member scott kelly making

5
00:00:15,749 --> 00:00:13,679
his return home to the united states

6
00:00:17,510 --> 00:00:15,759
welcome from nasa's johnson space center

7
00:00:19,429 --> 00:00:17,520
thanks for staying up late tonight with

8
00:00:21,910 --> 00:00:19,439
us i'm dan hewitt

9
00:00:23,830 --> 00:00:21,920
again scott kelly just minutes away now

10
00:00:26,630 --> 00:00:23,840
from a landing in

11
00:00:29,269 --> 00:00:26,640
houston just a little over 24 hours

12
00:00:33,830 --> 00:00:29,279
since touching down in wintry kazakhstan

13
00:00:35,830 --> 00:00:33,840

after a historic 340 days in space

14

00:00:38,869 --> 00:00:35,840

a lot of folks are going to be gathering

15

00:00:40,790 --> 00:00:38,879

out at ellington to welcome scott home

16

00:00:43,590 --> 00:00:40,800

among them various dignitaries from the

17

00:00:46,229 --> 00:00:43,600

white house including dr jill biden the

18

00:00:49,110 --> 00:00:46,239

second lady of the united states john

19

00:00:51,350 --> 00:00:49,120

holdren the white house science advisor

20

00:00:53,510 --> 00:00:51,360

a number of nasa management folks

21

00:00:55,830 --> 00:00:53,520

including charles bolden the nasa

22

00:00:58,069 --> 00:00:55,840

administrator ellen ochoa the center

23

00:00:59,590 --> 00:00:58,079

director and of course scott's friends

24

00:01:02,950 --> 00:00:59,600

and family he's going to be looking

25

00:01:04,549 --> 00:01:02,960

forward to seeing his loved ones his

26

00:01:06,710 --> 00:01:04,559

children and

27

00:01:08,870 --> 00:01:06,720

his twin brother mark kelly and his wife

28

00:01:11,510 --> 00:01:08,880

gabby giffords all gathering out there

29

00:01:13,510 --> 00:01:11,520

at ellington awaiting his return right

30

00:01:16,630 --> 00:01:13,520

now that return is scheduled to come

31

00:01:20,149 --> 00:01:16,640

just about 10 minutes from now at 1 20

32

00:01:22,310 --> 00:01:20,159

a.m central time 2 20 a.m eastern time

33

00:01:24,310 --> 00:01:22,320

and will be eagerly awaiting we'll be

34

00:01:26,230 --> 00:01:24,320

giving you a live view of the landing

35

00:01:29,109 --> 00:01:26,240

the taxi through the runway and the

36

00:01:31,670 --> 00:01:29,119

pull-in to the hangar as we will wait

37

00:01:33,270 --> 00:01:31,680

for scott to walk down the stairs just a

38

00:01:36,230 --> 00:01:33,280

few minutes later

39

00:01:39,190 --> 00:01:36,240
scott kelly of course launched just

40

00:01:42,149 --> 00:01:39,200
about one year ago from kazakhstan on

41

00:01:44,870 --> 00:01:42,159
march 27 2015

42

00:01:47,830 --> 00:01:44,880
when he would begin a historic stay on

43

00:01:50,389 --> 00:01:47,840
board the international space station

44

00:01:52,710 --> 00:01:50,399
that launch coming from baikonur when he

45

00:01:55,030 --> 00:01:52,720
was on board a soyuz spacecraft along

46

00:01:57,350 --> 00:01:55,040
with mikael korninko who spent the

47

00:01:59,670 --> 00:01:57,360
entire year with scott they launched

48

00:02:01,910 --> 00:01:59,680
with gennady padalka the all-time record

49

00:02:03,350 --> 00:02:01,920
holder for time and space among all of

50

00:02:05,270 --> 00:02:03,360
humanity

51
00:02:07,910 --> 00:02:05,280
launching flawlessly and arriving just

52
00:02:09,749 --> 00:02:07,920
six hours later they made their way in

53
00:02:12,869 --> 00:02:09,759
and were welcomed by the current

54
00:02:15,430 --> 00:02:12,879
expedition 43 crew on board uh terry

55
00:02:16,710 --> 00:02:15,440
verts samantha chris ferretti and anton

56
00:02:18,309 --> 00:02:16,720
shkaplerov

57
00:02:20,550 --> 00:02:18,319
who are already several months into

58
00:02:23,350 --> 00:02:20,560
their mission but for scott kelly and

59
00:02:25,350 --> 00:02:23,360
mikael korninko the first steps into the

60
00:02:28,470 --> 00:02:25,360
space station and what would be their

61
00:02:30,309 --> 00:02:28,480
home for the next 340 days

62
00:02:33,110 --> 00:02:30,319
and of course all of that came to a

63
00:02:35,190 --> 00:02:33,120

culmination just last night as scott

64

00:02:37,350 --> 00:02:35,200

kelly mikhail kornienko and sergey

65

00:02:39,670 --> 00:02:37,360

volkov said farewell to their crew

66

00:02:41,670 --> 00:02:39,680

members and for scott and mikhail said

67

00:02:44,309 --> 00:02:41,680

farewell to their home in space for the

68

00:02:46,070 --> 00:02:44,319

last year they said their final goodbyes

69

00:02:47,830 --> 00:02:46,080

and made their way into their soyuz

70

00:02:50,790 --> 00:02:47,840

spacecraft a different one than they

71

00:02:53,190 --> 00:02:50,800

arrived in this one actually arrived to

72

00:02:55,110 --> 00:02:53,200

the station in september when sergey

73

00:02:56,309 --> 00:02:55,120

volkov flew with two visiting crew

74

00:02:58,710 --> 00:02:56,319

members

75

00:03:00,949 --> 00:02:58,720

to deliver the taxi up there and bring

76

00:03:02,949 --> 00:03:00,959

these crew members back home

77

00:03:04,710 --> 00:03:02,959

the hatches were closed

78

00:03:06,550 --> 00:03:04,720

and then after that a series of leak

79

00:03:07,509 --> 00:03:06,560

checks just to make sure the vehicle was

80

00:03:09,589 --> 00:03:07,519

ready

81

00:03:11,990 --> 00:03:09,599

to make the trip home everything going

82

00:03:13,589 --> 00:03:12,000

flawlessly yesterday evening here on the

83

00:03:16,869 --> 00:03:13,599

station you can see the crew members who

84

00:03:19,270 --> 00:03:16,879

are still on board as expedition 47 tim

85

00:03:20,869 --> 00:03:19,280

copra tim peake and yuri malenchenko

86

00:03:22,710 --> 00:03:20,879

were going to continue all the science

87

00:03:25,509 --> 00:03:22,720

on board the station for the next

88

00:03:27,990 --> 00:03:25,519

several months once the hatch was closed

89

00:03:29,830 --> 00:03:28,000

on the soyuz side and on the station

90

00:03:31,910 --> 00:03:29,840

side series of leak checks were

91

00:03:34,710 --> 00:03:31,920

completed and then everything was set up

92

00:03:38,949 --> 00:03:34,720

for undocking that undocking took place

93

00:03:40,949 --> 00:03:38,959

at 702 pm central time 802 pm eastern

94

00:03:42,949 --> 00:03:40,959

soyuz slowly backing away at a

95

00:03:45,350 --> 00:03:42,959

snail-like rate of only one-tenth of a

96

00:03:48,390 --> 00:03:45,360

meter per second and with that undocking

97

00:03:50,869 --> 00:03:48,400

expedition 47 officially beginning

98

00:03:53,110 --> 00:03:50,879

but the end the beginning of a trip home

99

00:03:54,789 --> 00:03:53,120

for the one-year crew

100

00:03:57,270 --> 00:03:54,799

again all of this happened just

101
00:04:00,070 --> 00:03:57,280
yesterday march 1st so we're a little

102
00:04:02,229 --> 00:04:00,080
over 24 hours from all of these events

103
00:04:05,190 --> 00:04:02,239
as we get ready to welcome scott home to

104
00:04:07,350 --> 00:04:05,200
his first steps back on u.s soil

105
00:04:09,429 --> 00:04:07,360
that undocking coming successfully this

106
00:04:11,910 --> 00:04:09,439
a view from the soyuz as it looked down

107
00:04:14,550 --> 00:04:11,920
at the entire station structure and the

108
00:04:16,949 --> 00:04:14,560
earth orbiting beneath it it was only

109
00:04:19,110 --> 00:04:16,959
about three and a half hours from that

110
00:04:21,430 --> 00:04:19,120
undocking though until it was time for

111
00:04:23,590 --> 00:04:21,440
the capsule to return home

112
00:04:25,110 --> 00:04:23,600
the soyuz spacecraft does so under a

113
00:04:26,950 --> 00:04:25,120

large parachute

114

00:04:29,430 --> 00:04:26,960

setting up for an eventual touchdown in

115

00:04:32,150 --> 00:04:29,440

the kozak step and the vast expanses of

116

00:04:33,830 --> 00:04:32,160

the kazakh deserts as you can see cloudy

117

00:04:36,390 --> 00:04:33,840

conditions but

118

00:04:38,790 --> 00:04:36,400

fairly nice temperatures no the weather

119

00:04:40,629 --> 00:04:38,800

not too inclement out there and the

120

00:04:42,390 --> 00:04:40,639

search and recovery forces the various

121

00:04:44,310 --> 00:04:42,400

helicopters the nasa

122

00:04:46,469 --> 00:04:44,320

the russian personnel able to track the

123

00:04:49,430 --> 00:04:46,479

capsule all the way down and get the

124

00:04:51,670 --> 00:04:49,440

crew members out safely and quickly and

125

00:04:53,430 --> 00:04:51,680

this was again the first fresh of breath

126
00:04:56,950 --> 00:04:53,440
air for two of these crew members scott

127
00:04:57,990 --> 00:04:56,960
kelly and mikhail kononenko in over 340

128
00:04:59,909 --> 00:04:58,000
days

129
00:05:02,550 --> 00:04:59,919
as they conducted that historic year

130
00:05:05,430 --> 00:05:02,560
onboard the station sergey volkov was

131
00:05:07,270 --> 00:05:05,440
the first out of the soyuz capsule

132
00:05:10,230 --> 00:05:07,280
and he was the commander of the vehicle

133
00:05:12,950 --> 00:05:10,240
last night for all of its events volkov

134
00:05:14,710 --> 00:05:12,960
a veteran space flier who was making his

135
00:05:16,070 --> 00:05:14,720
third flight on board the international

136
00:05:18,390 --> 00:05:16,080
space station

137
00:05:21,350 --> 00:05:18,400
well in excess of 500 days on his

138
00:05:25,350 --> 00:05:21,360

all-time space flight resume for scott

139

00:05:27,870 --> 00:05:25,360

kelly and mikhail kononenko is 340 days

140

00:05:31,270 --> 00:05:27,880

and all told they spent

141

00:05:33,469 --> 00:05:31,280

5440 orbits around our planet now when

142

00:05:37,270 --> 00:05:33,479

you rack up the mileage on that that's

143

00:05:38,790 --> 00:05:37,280

143 million miles coincidentally about

144

00:05:41,110 --> 00:05:38,800

the same distance you would have to

145

00:05:43,350 --> 00:05:41,120

travel if you were on a mission to mars

146

00:05:45,110 --> 00:05:43,360

and this one-year mission the next step

147

00:05:47,590 --> 00:05:45,120

and the the international space

148

00:05:49,990 --> 00:05:47,600

station's use as a platform for

149

00:05:53,350 --> 00:05:50,000

preparing us for that journey to mars

150

00:05:55,029 --> 00:05:53,360

again this view from yesterday it was

151
00:05:56,870 --> 00:05:55,039
evening here in houston when the crew

152
00:05:59,670 --> 00:05:56,880
touched down but morning out in

153
00:06:02,070 --> 00:05:59,680
kazakhstan about 12 hours ahead of us

154
00:06:04,309 --> 00:06:02,080
here in houston kelly giving a lot of

155
00:06:06,710 --> 00:06:04,319
thumbs up there on the ground reporting

156
00:06:08,870 --> 00:06:06,720
he was doing well

157
00:06:11,430 --> 00:06:08,880
and now we're getting reports the plane

158
00:06:13,670 --> 00:06:11,440
about to land at ellington so we will

159
00:06:16,790 --> 00:06:13,680
cut out live and there it is the nasa

160
00:06:39,270 --> 00:06:16,800
plane down on the field in ellington

161
00:06:44,790 --> 00:06:41,670
so on board this plane scott kelly is

162
00:06:47,510 --> 00:06:44,800
joined by a crew of nasa personnel who

163
00:06:49,110 --> 00:06:47,520

made the trip out to kazakhstan to

164

00:06:51,589 --> 00:06:49,120

bring him home as quickly as

165

00:06:53,589 --> 00:06:51,599

expeditiously as possible

166

00:06:55,990 --> 00:06:53,599

this done on the nasa plane to get these

167

00:06:58,309 --> 00:06:56,000

crew members hopefully within 24 hours

168

00:06:59,990 --> 00:06:58,319

or so after their landing so they can

169

00:07:02,150 --> 00:07:00,000

begin giving

170

00:07:04,230 --> 00:07:02,160

medical tests various data takes all of

171

00:07:06,230 --> 00:07:04,240

the scientists and medical personnel

172

00:07:08,390 --> 00:07:06,240

responsible for doing all of the science

173

00:07:09,749 --> 00:07:08,400

around their missions of course many of

174

00:07:11,270 --> 00:07:09,759

the crew members

175

00:07:13,510 --> 00:07:11,280

liking themselves to guinea pigs at

176
00:07:15,909 --> 00:07:13,520
times but they are themselves very much

177
00:07:18,150 --> 00:07:15,919
the experiment and a lot of the work

178
00:07:20,309 --> 00:07:18,160
still to come for scott kelly is just

179
00:07:22,870 --> 00:07:20,319
because he's not in space anymore

180
00:07:25,350 --> 00:07:22,880
doesn't mean the science stops so a lot

181
00:07:27,830 --> 00:07:25,360
of work still to go for him but scott

182
00:07:41,670 --> 00:07:27,840
kelly in the nasa plane taxing on the

183
00:07:46,309 --> 00:07:43,990
and again at this point scott's friends

184
00:07:49,350 --> 00:07:46,319
family invited guests and various

185
00:07:51,749 --> 00:07:49,360
dignitaries are there out at ellington

186
00:07:53,589 --> 00:07:51,759
they'll wait for the plane to

187
00:07:56,629 --> 00:07:53,599
pull into the hangar

188
00:08:00,550 --> 00:07:56,639

at which point before they can say hello

189

00:08:02,550 --> 00:08:00,560

to scott there's actually a bit of

190

00:08:04,309 --> 00:08:02,560

processing he'll have to go through

191

00:08:06,629 --> 00:08:04,319

scott and everybody on board will be

192

00:08:09,110 --> 00:08:06,639

going through the exact same u.s customs

193

00:08:10,869 --> 00:08:09,120

and border protection processing as any

194

00:08:13,029 --> 00:08:10,879

u.s citizen would returning to the

195

00:08:14,950 --> 00:08:13,039

united states so believe it or not a

196

00:08:17,510 --> 00:08:14,960

trip into outer space treated much like

197

00:08:19,270 --> 00:08:17,520

a trip overseas to any other country

198

00:08:22,150 --> 00:08:19,280

so for scott kelly that'll be the first

199

00:08:24,230 --> 00:08:22,160

order of business before he's able to

200

00:08:25,909 --> 00:08:24,240

get off the plane and you can see all of

201
00:08:27,830 --> 00:08:25,919
the various friends family nasa

202
00:08:29,430 --> 00:08:27,840
dignitaries and those from the white

203
00:08:32,230 --> 00:08:29,440
house accompanying

204
00:09:18,310 --> 00:08:32,240
second lady dr jill biden to welcome

205
00:09:22,630 --> 00:09:20,470
here now the nasa plane pulling into the

206
00:09:24,870 --> 00:09:22,640
hangar out at ellington

207
00:09:27,590 --> 00:09:24,880
it's made the trip in

208
00:09:28,790 --> 00:09:27,600
under 24 hours now stopping twice for

209
00:09:30,949 --> 00:09:28,800
fueling

210
00:09:34,230 --> 00:09:30,959
on the way back from jezcazgan

211
00:09:38,870 --> 00:09:36,550
the plane did hit a bit of inclement

212
00:09:40,790 --> 00:09:38,880
weather and crosswinds so

213
00:09:42,630 --> 00:09:40,800

are landing a little bit delayed if

214

00:09:44,389 --> 00:09:42,640

you've been following along but the

215

00:10:07,910 --> 00:09:44,399

plane now on the ground pulling into the

216

00:10:12,550 --> 00:10:10,230

and with that the plane comes to a stop

217

00:10:14,470 --> 00:10:12,560

again the first order of business going

218

00:10:16,949 --> 00:10:14,480

to be that customs processing for

219

00:10:19,030 --> 00:10:16,959

everybody on board is this stop in

220

00:10:19,829 --> 00:10:19,040

houston is the first port of call for

221

00:10:22,630 --> 00:10:19,839

them

222

00:10:24,389 --> 00:10:22,640

on returning to the united states

223

00:10:25,110 --> 00:10:24,399

and once that's complete we'll begin to

224

00:10:27,030 --> 00:10:25,120

see

225

00:10:29,269 --> 00:10:27,040

the friends family guests and other

226

00:10:31,430 --> 00:10:29,279

dignitaries begin to file in and get

227

00:11:30,550 --> 00:10:31,440

ready to welcome scott home after his

228

00:11:36,069 --> 00:11:33,430

and again a live view of nasa 992 the

229

00:11:38,550 --> 00:11:36,079

plane we're turning scott kelly home to

230

00:11:40,069 --> 00:11:38,560

houston just now pulled into the hangar

231

00:11:42,949 --> 00:11:40,079

again the first order of business will

232

00:11:45,350 --> 00:11:42,959

be those customs checks and then they'll

233

00:11:47,430 --> 00:11:45,360

be able to begin deplaning

234

00:11:49,430 --> 00:11:47,440

on board scott kelly is joined by a

235

00:11:51,509 --> 00:11:49,440

number of personnel including his flight

236

00:11:53,829 --> 00:11:51,519

surgeon dr stephen gilmore two

237

00:11:56,710 --> 00:11:53,839

astronauts also on board chris cassidy

238

00:11:58,870 --> 00:11:56,720

the chief astronaut as well as joe acaba

239

00:12:01,269 --> 00:11:58,880

nasa public affairs officer rob navies

240

00:12:03,269 --> 00:12:01,279

also riding along with the team along

241

00:12:26,310 --> 00:12:03,279

with the pilots and various aircraft

242

00:12:30,870 --> 00:12:28,150

and so one of the first people we should

243

00:12:33,590 --> 00:12:30,880

actually see get off the plane will be

244

00:12:35,269 --> 00:12:33,600

joel montelbano and he is the deputy

245

00:12:37,590 --> 00:12:35,279

program manager for the international

246

00:12:39,670 --> 00:12:37,600

space station in charge of utilization

247

00:12:41,190 --> 00:12:39,680

which is a fancy word for science that

248

00:12:43,269 --> 00:12:41,200

we like to use

249

00:12:44,230 --> 00:12:43,279

he'll actually be coming off the plane

250

00:12:46,870 --> 00:12:44,240

with

251
00:12:47,750 --> 00:12:46,880
scientific samples

252
00:12:50,790 --> 00:12:47,760
that

253
00:12:52,470 --> 00:12:50,800
kelly came from kelly and came down in

254
00:12:54,870 --> 00:12:52,480
the soyuz spacecraft and are going to be

255
00:13:01,590 --> 00:12:54,880
returned as quickly as possible to labs

256
00:13:05,590 --> 00:13:03,269
and again at this point customs

257
00:13:07,509 --> 00:13:05,600
officials are getting ready and getting

258
00:13:09,590 --> 00:13:07,519
onto the plane to

259
00:13:12,230 --> 00:13:09,600
do a quick passport check for all of

260
00:13:14,629 --> 00:13:12,240
these individuals

261
00:13:16,710 --> 00:13:14,639
and after that we'll be able to begin

262
00:13:17,829 --> 00:13:16,720
our events get scott kelly off that

263
00:13:19,670 --> 00:13:17,839

plane and

264

00:13:21,750 --> 00:13:19,680

allow him to greet all of the gathered

265

00:13:23,990 --> 00:13:21,760

people very excited to see him many of

266

00:13:26,310 --> 00:13:24,000

them all of them i haven't seen him for

267

00:13:27,910 --> 00:13:26,320

about about a year at this point so

268

00:13:29,990 --> 00:13:27,920

obviously a lot of excitement out there

269

00:13:47,269 --> 00:13:30,000

at ellington a lot of excitement here at

270

00:13:52,069 --> 00:13:49,829

and so again a lot of the science not

271

00:13:54,389 --> 00:13:52,079

done yet uh with scott kelly's one-year

272

00:13:56,790 --> 00:13:54,399

mission a lot more for him to do having

273

00:13:59,269 --> 00:13:56,800

returned now to earth however while he

274

00:14:00,629 --> 00:13:59,279

was on board science was the primary

275

00:14:02,870 --> 00:14:00,639

goal as it is with all of these

276

00:14:05,030 --> 00:14:02,880

expeditions but something was very

277

00:14:07,590 --> 00:14:05,040

special about scots here in space is it

278

00:14:09,509 --> 00:14:07,600

is really a stepping stone to getting us

279

00:14:11,189 --> 00:14:09,519

ready and trying to answer all the

280

00:14:13,110 --> 00:14:11,199

questions that are still outstanding

281

00:14:15,110 --> 00:14:13,120

before we can start sending humans to

282

00:14:17,509 --> 00:14:15,120

mars one of the most important studies

283

00:14:20,310 --> 00:14:17,519

kelly was involved with was called fluid

284

00:14:22,710 --> 00:14:20,320

shifts and is studying and trying to

285

00:14:25,189 --> 00:14:22,720

explain and counteract a phenomenon that

286

00:14:27,350 --> 00:14:25,199

is noticed that has been found with some

287

00:14:29,509 --> 00:14:27,360

crew members not all where they actually

288

00:14:31,269 --> 00:14:29,519

lose visual acuity so they lose some of

289

00:14:33,350 --> 00:14:31,279

their visual prowess while they're in

290

00:14:35,670 --> 00:14:33,360

space and it doesn't always come back to

291

00:14:37,829 --> 00:14:35,680

normal once they're back on the ground

292

00:14:40,629 --> 00:14:37,839

the fluid shift study use a chibis

293

00:14:43,030 --> 00:14:40,639

device it's a funny pantsuit actually

294

00:14:44,949 --> 00:14:43,040

that the russians would wear

295

00:14:45,750 --> 00:14:44,959

traditionally before they return home

296

00:14:47,750 --> 00:14:45,760

that

297

00:14:49,350 --> 00:14:47,760

counteracts what's known as fluid shifts

298

00:14:51,509 --> 00:14:49,360

so when you're in the microgravity

299

00:14:53,590 --> 00:14:51,519

environment all of that fluid that

300

00:14:55,829 --> 00:14:53,600

naturally pools in your legs down here

301
00:14:57,590 --> 00:14:55,839
on planet earth redistributes a lot of

302
00:14:59,750 --> 00:14:57,600
it going through your torso area but

303
00:15:01,829 --> 00:14:59,760
it's specifically the head and that is

304
00:15:03,750 --> 00:15:01,839
one of the suspected culprits for

305
00:15:05,829 --> 00:15:03,760
causing this visual problem is that

306
00:15:08,310 --> 00:15:05,839
increased pressure in the head so fluid

307
00:15:10,629 --> 00:15:08,320
shifts a groundbreaking study with both

308
00:15:12,949 --> 00:15:10,639
scott kelly and mikhail kornigenko

309
00:15:15,030 --> 00:15:12,959
looking to counteract or target one of

310
00:15:17,110 --> 00:15:15,040
the prime suspects for that visual

311
00:15:19,430 --> 00:15:17,120
problem and then develop the counter

312
00:15:22,550 --> 00:15:19,440
measures that will be able to keep our

313
00:15:24,949 --> 00:15:22,560

astronauts cosmonauts safe in orbit now

314

00:15:26,870 --> 00:15:24,959

this study again made use of both scott

315

00:15:29,030 --> 00:15:26,880

kelly and mikhail kornienko both

316

00:15:31,670 --> 00:15:29,040

one-year crew members and both nasa and

317

00:15:32,470 --> 00:15:31,680

rose cosmos already deciding to continue

318

00:15:40,389 --> 00:15:32,480

that

319

00:15:42,069 --> 00:15:40,399

over 400 studies taking place on board

320

00:15:44,550 --> 00:15:42,079

the international space station during

321

00:15:46,389 --> 00:15:44,560

scott's time on orbit that ranged from

322

00:15:48,310 --> 00:15:46,399

everything from material science to

323

00:15:49,910 --> 00:15:48,320

those human research projects to a

324

00:15:52,069 --> 00:15:49,920

number of other studies that are getting

325

00:15:53,990 --> 00:15:52,079

us ready for the journey to mars one

326

00:15:55,749 --> 00:15:54,000

that caught a lot of people's attention

327

00:15:57,990 --> 00:15:55,759

a lot of people's imagination was the

328

00:16:00,230 --> 00:15:58,000

work with the veggie experiment

329

00:16:01,269 --> 00:16:00,240

which is studying plant growth in outer

330

00:16:02,949 --> 00:16:01,279

space

331

00:16:04,870 --> 00:16:02,959

as we know everything that we do in

332

00:16:06,870 --> 00:16:04,880

microgravity very different from how we

333

00:16:08,870 --> 00:16:06,880

do it down here on planet earth and

334

00:16:11,189 --> 00:16:08,880

veggie no different looking to study how

335

00:16:13,189 --> 00:16:11,199

we can grow plants simple plants at

336

00:16:14,230 --> 00:16:13,199

first but eventually with the goal of

337

00:16:16,470 --> 00:16:14,240

growing

338

00:16:17,910 --> 00:16:16,480

nutritional fruits vegetables things

339

00:16:20,389 --> 00:16:17,920

like that that the crew members don't

340

00:16:22,870 --> 00:16:20,399

always have access to when they're in

341

00:16:25,110 --> 00:16:22,880

space is that would add a lot of

342

00:16:27,110 --> 00:16:25,120

nutritional value and a very great

343

00:16:28,550 --> 00:16:27,120

psychological tool as well to keep these

344

00:16:31,030 --> 00:16:28,560

astronauts

345

00:16:32,550 --> 00:16:31,040

very interested getting word now that

346

00:16:34,069 --> 00:16:32,560

they're getting ready to go off the

347

00:16:35,749 --> 00:16:34,079

plane so we're going to go back out to

348

00:16:38,949 --> 00:16:35,759

ellington field to make sure we catch

349

00:16:44,069 --> 00:16:41,430

there we see joe acaba and one of the

350

00:16:46,550 --> 00:16:44,079

backup flight surgeons and nasa public

351

00:16:48,550 --> 00:16:46,560

affairs officer rob navies dr stephen

352

00:16:50,069 --> 00:16:48,560

gilmour and then chris cassidy and then

353

00:17:08,789 --> 00:16:50,079

the man himself the man of the hour

354

00:17:13,110 --> 00:17:10,870

and as we've seen cincy touchdown scott

355

00:17:15,350 --> 00:17:13,120

kelly in very great spirits looking in

356

00:17:17,669 --> 00:17:15,360

very great health brother mark kelly

357

00:17:20,470 --> 00:17:17,679

there on the left as you can probably

358

00:17:20,480 --> 00:17:34,070

saying hello to his father

359

00:17:34,080 --> 00:17:46,390

laughs

360

00:17:52,070 --> 00:17:49,110

with scott kelly off the plane though a

361

00:17:54,310 --> 00:17:52,080

15 to 20 minute timer has started as he

362

00:17:57,110 --> 00:17:54,320

is scheduled to be in crew quarters uh

363

00:17:59,110 --> 00:17:57,120

fairly soon to begin those data takes

364

00:18:01,270 --> 00:17:59,120

but for now savoring the moment back in

365

00:18:11,909 --> 00:18:01,280

houston seeing his family for the first

366

00:18:15,750 --> 00:18:13,830

and they're greeting dr jill biden

367

00:18:16,870 --> 00:18:15,760

second lady of the united states and on

368

00:18:19,350 --> 00:18:16,880

the right there

369

00:18:22,950 --> 00:18:19,360

is dr john holdren the white house

370

00:18:26,549 --> 00:18:24,310

and their

371

00:18:30,390 --> 00:18:26,559

johnson space center director ellen

372

00:18:30,400 --> 00:19:04,150

sorry

373

00:19:04,160 --> 00:19:43,750

do you feel like you're here

374

00:19:48,230 --> 00:19:45,909

scott kelly saying hello to terry verts

375

00:19:49,990 --> 00:19:48,240

and chell ingram two nasa astronauts who

376

00:20:30,149 --> 00:19:50,000

served on board the international space

377

00:20:34,549 --> 00:20:32,230

i wanted to say a few words to everyone

378

00:20:36,950 --> 00:20:34,559

before i know it's late and uh it would

379

00:20:39,830 --> 00:20:36,960

have been great to get here quicker um

380

00:20:42,149 --> 00:20:39,840

i'm used to going 17 500 miles an hour

381

00:20:44,070 --> 00:20:42,159

but this airplane doesn't do quite that

382

00:20:46,549 --> 00:20:44,080

so it took us some time but with the

383

00:20:49,669 --> 00:20:46,559

great support of the crew we got here

384

00:20:51,750 --> 00:20:49,679

safely you know it was a very long trip

385

00:20:53,350 --> 00:20:51,760

uh when i left here in in february i

386

00:20:57,590 --> 00:20:53,360

don't even know what day it was in

387

00:20:58,470 --> 00:20:57,600

february i was 50 and now i'm 52.

388

00:21:00,630 --> 00:20:58,480

so

389

00:21:05,270 --> 00:21:00,640

uh but it feels great it's great to be

390

00:21:07,270 --> 00:21:05,280

back in texas in uh us on u.s soil

391

00:21:10,230 --> 00:21:07,280

it's just an unbelievable feeling to be

392

00:21:12,070 --> 00:21:10,240

to be back here on planet earth back in

393

00:21:14,789 --> 00:21:12,080

our great country and back with all my

394

00:21:17,110 --> 00:21:14,799

my family and my my friends

395

00:21:18,870 --> 00:21:17,120

i want to recognize my girlfriend and

396

00:21:21,190 --> 00:21:18,880

partner amico here that's been in

397

00:21:23,029 --> 00:21:21,200

lockstep with me the whole time during

398

00:21:25,270 --> 00:21:23,039

this whole experience

399

00:21:28,549 --> 00:21:25,280

um helping me uh

400

00:21:31,430 --> 00:21:28,559

in an incredible way all along the way

401
00:21:33,430 --> 00:21:31,440
my daughter samantha and charlotte

402
00:21:34,630 --> 00:21:33,440
charlotte came from all the way from

403
00:21:37,350 --> 00:21:34,640
virginia

404
00:21:38,789 --> 00:21:37,360
today so she's probably pretty tired

405
00:21:40,870 --> 00:21:38,799
um

406
00:21:42,710 --> 00:21:40,880
my brother mark who has been very very

407
00:21:44,950 --> 00:21:42,720
supportive of me the whole

408
00:21:46,789 --> 00:21:44,960
way and

409
00:21:49,270 --> 00:21:46,799
and my friends and family but also i

410
00:21:51,029 --> 00:21:49,280
want to obviously recognize dr

411
00:21:52,950 --> 00:21:51,039
biden for coming out here to welcome me

412
00:21:54,630 --> 00:21:52,960
home it's very very special and thank

413
00:21:57,190 --> 00:21:54,640

you um

414

00:21:59,590 --> 00:21:57,200

and uh it's it's a real honor and dr

415

00:22:01,990 --> 00:21:59,600

holdren and general bolden as well i

416

00:22:03,830 --> 00:22:02,000

really really appreciate that

417

00:22:06,310 --> 00:22:03,840

i missed everyone very much

418

00:22:07,830 --> 00:22:06,320

340 days aboard the space station

419

00:22:09,510 --> 00:22:07,840

represented the coming together of

420

00:22:12,630 --> 00:22:09,520

thousands of people engineers flight

421

00:22:14,950 --> 00:22:12,640

controllers support personnel scientists

422

00:22:17,350 --> 00:22:14,960

flight surgeons especially my flight

423

00:22:20,149 --> 00:22:17,360

surgeon over here steve gilmore who was

424

00:22:22,950 --> 00:22:20,159

the only guy besides my family that was

425

00:22:24,470 --> 00:22:22,960

a part of this for the entire year

426
00:22:26,470 --> 00:22:24,480
certainly there were program managers

427
00:22:28,149 --> 00:22:26,480
and stuff but he was he was there every

428
00:22:30,630 --> 00:22:28,159
day for me he's been my doctor for the

429
00:22:33,029 --> 00:22:30,640
last 10 years

430
00:22:35,270 --> 00:22:33,039
and thanks to all these people that did

431
00:22:36,149 --> 00:22:35,280
their job exceptionally well i'm back

432
00:22:41,270 --> 00:22:36,159
here

433
00:22:45,110 --> 00:22:42,950
i also want to say this was not my

434
00:22:46,710 --> 00:22:45,120
flight they've talked about my year in

435
00:22:48,870 --> 00:22:46,720
space

436
00:22:50,230 --> 00:22:48,880
it's not my achievement it's nasa's

437
00:22:52,070 --> 00:22:50,240
achievement and it's our country's

438
00:22:54,549 --> 00:22:52,080

achievement

439

00:22:56,070 --> 00:22:54,559

i was lucky to spend an incredible year

440

00:22:57,909 --> 00:22:56,080

with some incredible people that are

441

00:22:59,990 --> 00:22:57,919

here today to greet me back on earth

442

00:23:02,070 --> 00:23:00,000

crew members that are here and people

443

00:23:04,149 --> 00:23:02,080

that aren't here american astronauts

444

00:23:06,789 --> 00:23:04,159

astronauts from other countries

445

00:23:08,630 --> 00:23:06,799

and russian cosmonauts from around the

446

00:23:11,110 --> 00:23:08,640

world it was a privilege to fly with all

447

00:23:14,230 --> 00:23:12,149

you know one of the things that i

448

00:23:15,830 --> 00:23:14,240

thought a lot about during this year is

449

00:23:17,590 --> 00:23:15,840

that there's no greater privilege than

450

00:23:19,990 --> 00:23:17,600

serving your country however and

451
00:23:21,510 --> 00:23:20,000
wherever you might do it this mission is

452
00:23:23,029 --> 00:23:21,520
the latest achievement in our country

453
00:23:25,510 --> 00:23:23,039
space program

454
00:23:27,110 --> 00:23:25,520
but it's not the last there will be more

455
00:23:29,669 --> 00:23:27,120
it's in our dna

456
00:23:32,710 --> 00:23:29,679
of our country to explore and we must

457
00:23:35,590 --> 00:23:32,720
never stop doing this we must lead

458
00:23:37,110 --> 00:23:35,600
we must learn and we must discover

459
00:23:39,190 --> 00:23:37,120
thanks thank you all very much for

460
00:23:39,909 --> 00:23:39,200
coming out here to see me

461
00:23:41,750 --> 00:23:39,919
and

462
00:23:43,430 --> 00:23:41,760
again i just want to emphasize this is a

463
00:23:46,070 --> 00:23:43,440

huge team effort

464

00:23:48,630 --> 00:23:46,080

amiko told me one time teamwork makes

465

00:23:51,669 --> 00:23:48,640

the dream work and this is the biggest

466

00:23:53,830 --> 00:23:51,679

team sport there is space flight and

467

00:23:59,510 --> 00:23:53,840

it's about all of us not just one person

468

00:24:02,310 --> 00:24:00,950

we're going to let scott get out of here

469

00:24:04,390 --> 00:24:02,320

but before we do

470

00:24:06,070 --> 00:24:04,400

one quick thing i wanted to say scott on

471

00:24:08,310 --> 00:24:06,080

behalf of all of us and your team

472

00:24:10,870 --> 00:24:08,320

welcome home uh i want to thank your

473

00:24:12,789 --> 00:24:10,880

entire family um and your friends who

474

00:24:14,950 --> 00:24:12,799

have been supporting you who've been

475

00:24:16,549 --> 00:24:14,960

through this made special sacrifices i

476

00:24:19,669 --> 00:24:16,559

think all of you heard scott talk about

477

00:24:21,510 --> 00:24:19,679

the fact that his flight was another

478

00:24:24,070 --> 00:24:21,520

step on the journey to mars and he has

479

00:24:25,590 --> 00:24:24,080

done an incredible job

480

00:24:27,590 --> 00:24:25,600

people love you they love everything

481

00:24:29,350 --> 00:24:27,600

you've done so on behalf of all of us

482

00:24:30,870 --> 00:24:29,360

welcome back and i want to introduce the

483

00:24:32,470 --> 00:24:30,880

president science advisor dr john

484

00:24:35,430 --> 00:24:32,480

holdren who i think wants to say thanks

485

00:24:39,510 --> 00:24:38,149

well thank you charlie and and uh

486

00:24:42,230 --> 00:24:39,520

thank you scott

487

00:24:43,430 --> 00:24:42,240

for your amazing service

488

00:24:45,430 --> 00:24:43,440

um

489

00:24:47,269 --> 00:24:45,440

you very generously noted it's not just

490

00:24:48,710 --> 00:24:47,279

your achievement it's nasa's achievement

491

00:24:50,630 --> 00:24:48,720

it's the country's achievement that's

492

00:24:52,149 --> 00:24:50,640

all true but you were out there at the

493

00:24:53,750 --> 00:24:52,159

point of the spear

494

00:24:54,950 --> 00:24:53,760

and

495

00:24:56,390 --> 00:24:54,960

you have

496

00:24:58,870 --> 00:24:56,400

your whole career

497

00:25:01,190 --> 00:24:58,880

set an example that's an inspiration to

498

00:25:02,789 --> 00:25:01,200

our young people it's an inspiration to

499

00:25:03,909 --> 00:25:02,799

the country it's an inspiration to the

500

00:25:06,390 --> 00:25:03,919

world

501
00:25:09,190 --> 00:25:06,400

i also want to recognize the

502
00:25:10,470 --> 00:25:09,200

extraordinary role of your brother mark

503
00:25:12,950 --> 00:25:10,480

who

504
00:25:14,950 --> 00:25:12,960

on top of his four missions in space was

505
00:25:17,350 --> 00:25:14,960

now monitored the whole time you were up

506
00:25:19,310 --> 00:25:17,360

there being monitored mark was down here

507
00:25:21,750 --> 00:25:19,320

being monitored giving us an

508
00:25:24,870 --> 00:25:21,760

unprecedented benchmark

509
00:25:27,269 --> 00:25:24,880

of extraordinary relevance to understand

510
00:25:29,990 --> 00:25:27,279

the physiological changes to which

511
00:25:31,590 --> 00:25:30,000

people are exposed in space

512
00:25:33,190 --> 00:25:31,600

it's going to help us

513
00:25:35,269 --> 00:25:33,200

figure out how to deal with those

514

00:25:36,470 --> 00:25:35,279

physiological changes on the even longer

515

00:25:38,310 --> 00:25:36,480

missions

516

00:25:40,310 --> 00:25:38,320

that are ahead when we go to mars and we

517

00:25:42,230 --> 00:25:40,320

are going to go to mars

518

00:25:43,510 --> 00:25:42,240

there is no doubt about that we are

519

00:25:45,590 --> 00:25:43,520

committed to it

520

00:25:48,630 --> 00:25:45,600

we're going to get it done

521

00:25:53,190 --> 00:25:50,630

and you really have established the

522

00:25:55,190 --> 00:25:53,200

latest milestone on that very

523

00:25:57,590 --> 00:25:55,200

challenging pathway so thank you for

524

00:25:58,470 --> 00:25:57,600

that and let me now turn it over

525

00:26:01,110 --> 00:25:58,480

to

526
00:26:02,710 --> 00:26:01,120
dr jill biden the second lady of the

527
00:26:04,870 --> 00:26:02,720
united states

528
00:26:07,190 --> 00:26:04,880
who was very gracious to come and join

529
00:26:09,029 --> 00:26:07,200
this event

530
00:26:11,669 --> 00:26:09,039
thank you

531
00:26:13,990 --> 00:26:11,679
welcome home scott on behalf of

532
00:26:17,029 --> 00:26:14,000
president obama our first lady michelle

533
00:26:18,549 --> 00:26:17,039
obama our vice president my husband and

534
00:26:20,470 --> 00:26:18,559
all americans

535
00:26:21,590 --> 00:26:20,480
i want to congratulate you on your year

536
00:26:24,950 --> 00:26:21,600
in space

537
00:26:26,789 --> 00:26:24,960
and you truly are an inspiration to all

538
00:26:28,549 --> 00:26:26,799

of us i had the opportunity to bring

539

00:26:31,110 --> 00:26:28,559

some military

540

00:26:33,830 --> 00:26:31,120

children here with me tonight and

541

00:26:35,750 --> 00:26:33,840

who were involved with stem education

542

00:26:38,470 --> 00:26:35,760

and they got to see the johnson space

543

00:26:40,470 --> 00:26:38,480

center and uh to meet your family your

544

00:26:42,390 --> 00:26:40,480

wonderful family and mark

545

00:26:43,830 --> 00:26:42,400

and um

546

00:26:46,710 --> 00:26:43,840

really they

547

00:26:48,710 --> 00:26:46,720

you just inspired them to to want to go

548

00:26:52,310 --> 00:26:48,720

into the space program and be a part of

549

00:26:55,029 --> 00:26:52,320

it and you're doing that for so many

550

00:26:57,110 --> 00:26:55,039

young americans and i thank you for that

551
00:26:58,950 --> 00:26:57,120
so good luck i brought you some beer and

552
00:27:07,190 --> 00:26:58,960
apple pie nothing's more american than

553
00:27:11,430 --> 00:27:09,350
that's what he said he wanted so

554
00:27:13,909 --> 00:27:11,440
that's what i brought him the beer is

555
00:27:16,950 --> 00:27:13,919
from the president actually from his

556
00:27:19,350 --> 00:27:16,960
from the garden and uh the apple pie is

557
00:27:20,549 --> 00:27:19,360
just from all americans so we hold you

558
00:27:37,269 --> 00:27:20,559
in our hearts

559
00:27:37,279 --> 00:28:12,149
i'm happy to be here

560
00:28:12,159 --> 00:28:19,029
please

561
00:28:19,039 --> 00:29:11,029
uh

562
00:29:11,039 --> 00:29:28,950
um

563
00:29:33,190 --> 00:29:31,350

and so at this point scott kelly making

564

00:29:35,190 --> 00:29:33,200

his way into the van he's going to be

565

00:29:37,190 --> 00:29:35,200

headed off to crew quarters

566

00:29:39,430 --> 00:29:37,200

to begin the reconditioning process and

567

00:29:41,750 --> 00:29:39,440

all the medical checkups and the data

568

00:29:42,630 --> 00:29:41,760

takes responsible for continuing his

569

00:29:44,070 --> 00:29:42,640

mission

570

00:30:45,909 --> 00:29:44,080

now that he's back down here on the

571

00:30:51,830 --> 00:30:48,710

and so with that scott kelly back on u.s

572

00:30:53,029 --> 00:30:51,840

soil for the first time in more than a

573

00:30:54,549 --> 00:30:53,039

year

574

00:30:57,190 --> 00:30:54,559

back with his friends and family and

575

00:30:59,590 --> 00:30:57,200

back here in houston and of course like

576

00:31:01,590 --> 00:30:59,600

we said the science doesn't stop just

577

00:31:03,430 --> 00:31:01,600

because scott's not in space anymore

578

00:31:06,070 --> 00:31:03,440

he's going to continue giving samples

579

00:31:07,669 --> 00:31:06,080

and data takes over the next year so his

580

00:31:09,269 --> 00:31:07,679

one year mission very much a three-year

581

00:31:11,509 --> 00:31:09,279

mission with both all of the stuff he

582

00:31:13,909 --> 00:31:11,519

did before flight during and now what's

583

00:31:15,350 --> 00:31:13,919

ahead for him afterwards and of course

584

00:31:17,669 --> 00:31:15,360

this isn't the last time we're going to

585

00:31:19,590 --> 00:31:17,679

see scott kelly this week as we are

586

00:31:21,590 --> 00:31:19,600

going to have some exciting press

587

00:31:24,310 --> 00:31:21,600

conferences coming up on friday march

588

00:31:26,549 --> 00:31:24,320

4th the first of those will be our one

589

00:31:28,549 --> 00:31:26,559

year mission science briefing where we

590

00:31:30,310 --> 00:31:28,559

will sit down with some of the brilliant

591

00:31:32,630 --> 00:31:30,320

minds behind the one year science

592

00:31:35,110 --> 00:31:32,640

mission both the human research and the

593

00:31:37,190 --> 00:31:35,120

larger station research at large

594

00:31:39,269 --> 00:31:37,200

as well as mark kelly scott's twin

595

00:31:41,990 --> 00:31:39,279

brother that'll take place at 12 p.m

596

00:31:44,549 --> 00:31:42,000

central time 1 p.m eastern and then of

597

00:31:47,190 --> 00:31:44,559

course will be the moment to talk with

598

00:31:49,830 --> 00:31:47,200

scott kelly his first media availability

599

00:31:53,029 --> 00:31:49,840

following his return from space after

600

00:31:55,509 --> 00:31:53,039

340 days and that'll be at 1 pm central

601
00:31:57,909 --> 00:31:55,519
2 p.m eastern here at the johnson space

602
00:31:59,830 --> 00:31:57,919
center so with that be sure to follow

603
00:32:02,870 --> 00:31:59,840
along with the one year mission online

604
00:32:04,870 --> 00:32:02,880
at nasa.gov one year and thank you for

605
00:32:07,110 --> 00:32:04,880
tuning in this evening to welcome back

606
00:32:09,190 --> 00:32:07,120
scott kelly to houston and to welcome

607
00:32:11,430 --> 00:32:09,200
him back at the end of his mission with