1
00:00:18,260 --> 00:00:15,740
this is Mission Control Houston we are

2
00:00:21,490 --> 00:00:18,270
now receiving live video of the soyuz

3
00:00:25,550 --> 00:00:21,500
tma-03m spacecraft it is descending

4
00:00:28,249 --> 00:00:25,560
elegantly under its chute everything is

5
00:00:31,370 --> 00:00:28,259
on track the weather down at the landing

6
00:00:33,889 --> 00:00:31,380
site mostly sunny skies temperatures in

7
00:00:36,280 --> 00:00:33,899
the low 80s light winds out of the north

8
00:00:40,190 --> 00:00:36,290
now descending into a cloudbank

9
00:00:42,619 --> 00:00:40,200
at the time that the final series of

10
00:00:45,229 --> 00:00:42,629
helicopters left karaganda about two

11
00:00:48,500 --> 00:00:45,239
hours ago to begin moving toward the

12
00:00:50,720 --> 00:00:48,510
landing site there was some light rain

13
00:00:52,910 --> 00:00:50,730

in the kerrigan de area but that's well

14
00:00:55,459 --> 00:00:52,920
to the north east of the landing site

15
00:00:56,779 --> 00:00:55,469
you can see that the weather at the

16
00:00:59,750 --> 00:00:56,789
landing site or in the close proximity

17
00:01:02,149 --> 00:00:59,760
of the landing site is good landing is

18
00:01:04,070 --> 00:01:02,159
scheduled just 10 minutes from now we

19
00:01:05,870 --> 00:01:04,080
now of course are watching live video

20
00:01:08,090 --> 00:01:05,880
courtesy of Rose cosmos the Russian

21
00:01:11,140 --> 00:01:08,100
Federal Space Agency of the final

22
00:01:35,050 --> 00:01:11,150
minutes of the descent of the soyuz tma

23
00:01:39,710 --> 00:01:37,940
station Houston on one no response

24
00:01:41,900 --> 00:01:39,720
required we know you don't have K you

25
00:01:43,700 --> 00:01:41,910
just wanted to give you an update 29 s

26
00:02:06,160 --> 00:01:43,710
is under shoot now and we're watching

27
00:02:12,130 --> 00:02:09,050
drifting down to its landing site

28
00:02:18,650 --> 00:02:12,140
Oleg Kononenko Don Pettit Andre Kuiper's

29
00:02:22,820 --> 00:02:18,660
under a fully deployed main shoot time

30
00:02:26,000 --> 00:02:22,830
to touchdown about nine minutes a dozen

31
00:02:28,550 --> 00:02:26,010
Russian mi-8 helicopters with Russian

32
00:02:30,590 --> 00:02:28,560
search and recovery Force personnel are

33
00:02:33,560 --> 00:02:30,600
Essie and Nagi a technical specialists

34
00:02:35,900 --> 00:02:33,570
NASA support personnel and European

35
00:02:38,240 --> 00:02:35,910
Space Agency's support personnel now

36
00:02:40,370 --> 00:02:38,250
flying in that race track pattern that

37
00:02:43,070 --> 00:02:40,380
we talked about earlier around the prime

38
00:02:44,960 --> 00:02:43,080

landing site so far so good

39
00:02:46,970 --> 00:02:44,970
it looks like the Soyuz vehicle is

40
00:03:49,100 --> 00:02:46,980
headed for an on target bull's eye

41
00:03:55,650 --> 00:03:53,250
everything continuing to look in great

42
00:03:57,270 --> 00:03:55,660
shape with the Soyuz vehicle once again

43
00:03:59,760 --> 00:03:57,280
now you're watching its descent under

44
00:04:01,830 --> 00:03:59,770
its main parachute toward its landing

45
00:04:04,170 --> 00:04:01,840
target - just to the southeast of the

46
00:04:09,810 --> 00:04:04,180
town of Jessica's gone in southeast

47
00:04:11,640 --> 00:04:09,820
Kazakhstan the undocking of the soyuz

48
00:04:14,130 --> 00:04:11,650
from the international space station's

49
00:04:16,349 --> 00:04:14,140
Rassvet module occurred on time just

50
00:04:20,580 --> 00:04:16,359
before 11:48 p.m. Central time on

51
00:04:22,560 --> 00:04:20,590
Saturday night the Soyuz conducted to

52
00:04:24,600 --> 00:04:22,570
separation burns to move to a distance

53
00:04:29,190 --> 00:04:24,610
of 12 kilometers away from the station

54
00:04:30,060 --> 00:04:29,200
at which point at 219 a.m. just under an

55
00:04:32,520 --> 00:04:30,070
hour ago

56
00:04:34,890 --> 00:04:32,530
the Soyuz engines fired for four minutes

57
00:04:37,890 --> 00:04:34,900
and 15 seconds and a deorbit burn a

58
00:04:39,330 --> 00:04:37,900
deceleration retrograde maneuver to

59
00:04:42,120 --> 00:04:39,340
begin the trip back home into the

60
00:04:44,760 --> 00:04:42,130
Earth's atmosphere the three sections of

61
00:04:47,640 --> 00:04:44,770
the Soyuz vehicle separated perfectly at

62
00:04:49,800 --> 00:04:47,650
2:47 a.m. Central time followed by the

63
00:04:52,800 --> 00:04:49,810

deployment of the chutes 15 minutes

64
00:04:55,920 --> 00:04:52,810
later setting the stage for what you're

65
00:04:58,640 --> 00:04:55,930
watching as of the Soyuz descends under

66
00:05:01,290 --> 00:04:58,650
mostly clear skies to a landing site in

67
00:05:05,250 --> 00:05:01,300
a very desolate area southeast

68
00:05:07,920 --> 00:05:05,260
Kazakhstan search and recovery forces

69
00:05:11,010 --> 00:05:07,930
are flying overhead accompanied by two

70
00:05:13,680 --> 00:05:11,020
Antonov fixed-wing aircraft that are

71
00:05:15,900 --> 00:05:13,690
relaying data and telemetry from the

72
00:05:17,340 --> 00:05:15,910
Soyuz spacecraft back to the flight

73
00:07:01,429 --> 00:05:17,350
control team at the Russian Mission

74
00:07:06,889 --> 00:07:04,009
on a Sunday afternoon in Southeast

75
00:07:10,040 --> 00:07:06,899
Kazakhstan the view of the soyuz tma-03m

76
00:07:13,219 --> 00:07:10,050
spacecraft continuing to drift gently

77
00:07:15,679 --> 00:07:13,229
back toward earth now just four minutes

78
00:07:18,769 --> 00:07:15,689
away from its scheduled touchdown its

79
00:07:21,169 --> 00:07:18,779
main chute having been deployed on time

80
00:07:22,820 --> 00:07:21,179
a few minutes ago all of the Soyuz

81
00:07:25,279 --> 00:07:22,830
system is in good shape we are not

82
00:07:26,989 --> 00:07:25,289
hearing communications at the moment

83
00:07:30,619 --> 00:07:26,999
from the crew but the search and

84
00:07:34,189 --> 00:07:30,629
recovery forces will be in contact with

85
00:07:36,290 --> 00:07:34,199
the crew momentarily and are continuing

86
00:07:37,639 --> 00:07:36,300
to relay updates to the Russian flight

87
00:07:44,640 --> 00:07:37,649
control team of the Russian Mission

88
00:07:44,650 --> 00:08:07,189

so Fusco pavilion piazza maggiore murder

89
00:08:41,030 --> 00:08:12,960
cumulative already hopeful for an ugly

90
00:08:46,980 --> 00:08:43,530
continuing to receive stunning views of

91
00:08:49,590 --> 00:08:46,990
the final minutes of the the flight of

92
00:08:52,230 --> 00:08:49,600
the soyuz tma-03m and the expedition 31

93
00:08:56,610 --> 00:08:52,240
crew oleg kononenko Don Pettit Andre

94
00:08:59,040 --> 00:08:56,620
Kuiper's as they gently descend this

95
00:09:02,670 --> 00:08:59,050
last couple of minutes or so back to

96
00:09:04,920 --> 00:09:02,680
their landing site search and recovery

97
00:09:06,630 --> 00:09:04,930
personnel are all in place hovering

98
00:09:08,550 --> 00:09:06,640
around the prime landing site flying in

99
00:09:11,160 --> 00:09:08,560
a circular pattern just waiting for that

100
00:09:13,410 --> 00:09:11,170
capsule to touchdown at which point the

101
00:09:15,210 --> 00:09:13,420
Russian mi-8 helicopters will begin to

102
00:10:00,720 --> 00:09:15,220
land in sequential fashion near the

103
00:10:06,400 --> 00:10:02,830
we're about a minute and a half away

104
00:10:10,630 --> 00:10:06,410
from touchdown everything continuing to

105
00:10:12,610 --> 00:10:10,640
look good radio beacon signals from the

106
00:10:16,270 --> 00:10:12,620
Soyuz being picked up by the Antonov a

107
00:10:17,980 --> 00:10:16,280
fixed-wing aircraft we haven't had any

108
00:10:22,260 --> 00:10:17,990
voice communication from the crew

109
00:10:25,240 --> 00:10:22,270
recently but all reports prior to that

110
00:10:28,270 --> 00:10:25,250
showed an excellent descent everything

111
00:10:53,130 --> 00:10:28,280
nominal also use vehicle functions in

112
00:10:58,170 --> 00:10:56,430
should be approaching touchdown with any

113
00:11:00,600 --> 00:10:58,180

luck at all we may be able to see the

114
00:11:23,060 --> 00:11:00,610
soft landing engines fire just a second

115
00:11:27,660 --> 00:11:25,340
and you can see one of those

116
00:11:30,780 --> 00:11:27,670
search-and-recovery helicopters once

117
00:11:37,610 --> 00:11:30,790
again that helicopter part of a dozen

118
00:11:42,510 --> 00:11:37,620
such Russian mi-8 helicopters touchdown

119
00:11:44,640 --> 00:11:42,520
314 and 48 seconds a.m. Central time you

120
00:11:47,250 --> 00:11:44,650
saw the soft landing engines fire just a

121
00:11:49,020 --> 00:11:47,260
split second before the Soyuz hit the

122
00:11:50,690 --> 00:11:49,030
ground southeast of Jessica's gone a

123
00:11:53,730 --> 00:11:50,700
bull's-eye touchdown

124
00:11:55,500 --> 00:11:53,740
landing once again at 3:14 and 48

125
00:11:58,770 --> 00:11:55,510
seconds Central Time

126
00:12:02,070 --> 00:11:58,780
2:14 and 48 seconds p.m. at the landing

127
00:12:04,560 --> 00:12:02,080
site in Kazakhstan the expedition 31

128
00:12:27,980 --> 00:12:04,570
crew Oleg Kononenko Don Pettit Andre

129
00:12:33,230 --> 00:12:30,500
and as you can see from this video

130
00:12:35,150 --> 00:12:33,240
courtesy of Ross cosmos some of the

131
00:12:39,140 --> 00:12:35,160
initial vehicles part of the search and

132
00:12:41,330 --> 00:12:39,150
recovery forces are already making their

133
00:12:45,280 --> 00:12:41,340
way toward the spacecraft they will

134
00:12:48,680 --> 00:12:45,290
secure the chute so the vehicle is not

135
00:12:57,590 --> 00:12:48,690
dragged along due to any wind conditions

136
00:13:00,470 --> 00:12:57,600
at the surface the the helicopters will

137
00:13:01,850 --> 00:13:00,480
begin landing in sequential fashion to

138
00:13:04,790 --> 00:13:01,860

begin to make their way towards the

139
00:13:19,450 --> 00:13:04,800
spacecraft and begin the process of

140
00:13:29,750 --> 00:13:23,030
Sophia's Moscow station speak to

141
00:13:31,760 --> 00:13:29,760
everyone a future go ahead that very

142
00:13:34,490 --> 00:13:31,770
first helicopter that you see landing

143
00:13:36,530 --> 00:13:34,500
contains rse and nergi a personnel

144
00:13:39,260 --> 00:13:36,540
technical specialists who will tend to

145
00:13:41,330 --> 00:13:39,270
the safing of the soyuz vehicle and will

146
00:13:43,940 --> 00:13:41,340
begin the process of erecting an

147
00:13:47,300 --> 00:13:43,950
inflatable medical tent nearby which the

148
00:13:49,550 --> 00:13:47,310
crew members will be brought into in

149
00:13:52,040 --> 00:13:49,560
reclining chairs after they've had an

150
00:13:54,770 --> 00:13:52,050
opportunity to adapt to Earth's gravity

151
00:13:58,480 --> 00:13:54,780
for a few minutes cover one mode

152
00:14:02,530 --> 00:13:58,490
activation info

153
00:14:50,250 --> 00:14:02,540
cover one is on the impo o excellent

154
00:14:55,269 --> 00:14:52,960
you're looking at the front screen of

155
00:14:57,579 --> 00:14:55,279
the Russian Mission Control Center in

156
00:15:00,790 --> 00:14:57,589
the center screen the Russian words for

157
00:15:06,250 --> 00:15:00,800
they've landed the landing of the Soyuz

158
00:15:09,579 --> 00:15:06,260
TMA o 3m spacecraft occurring right on

159
00:15:12,819 --> 00:15:09,589
schedule and right on the mark at 3:14

160
00:15:16,050 --> 00:15:12,829
and 48 seconds a.m. Central Time 2:14

161
00:15:20,410 --> 00:15:16,060
and 48 seconds p.m. at the landing site

162
00:15:22,930 --> 00:15:20,420
you saw the descent almost from the time

163
00:15:26,650 --> 00:15:22,940

of chute opening all the way through

164
00:15:28,810 --> 00:15:26,660
cloud layers onto a sunbathed

165
00:15:31,569 --> 00:15:28,820
landing site in southeast Kazakhstan

166
00:15:34,360 --> 00:15:31,579
search and recovery forces now moving

167
00:15:36,759 --> 00:15:34,370
toward the vehicle itself to begin the

168
00:17:57,310 --> 00:15:36,769
process of saving the Soyuz and the

169
00:18:04,970 --> 00:18:00,370
this is Mission Control Houston to recap

170
00:18:08,540 --> 00:18:04,980
we were a captive audience to live

171
00:18:11,030 --> 00:18:08,550
television of the Soyuz TMA 3 M vehicle

172
00:18:14,990 --> 00:18:11,040
descending under its main parachute for

173
00:18:18,620 --> 00:18:15,000
a touchdown that occurred on time and on

174
00:18:21,410 --> 00:18:18,630
target at 3:14 and 48 seconds a.m.

175
00:18:25,490 --> 00:18:21,420
Central time about seven minutes ago

176
00:18:27,620 --> 00:18:25,500
that capped off a flawless night of

177
00:18:29,990 --> 00:18:27,630
activities that began with the farewells

178
00:18:35,360 --> 00:18:30,000
and the hatch closure in the mid evening

179
00:18:37,460 --> 00:18:35,370
on Saturday night all of the leak checks

180
00:18:38,780 --> 00:18:37,470
and preparations for undocking went

181
00:18:41,060 --> 00:18:38,790
without a hitch

182
00:18:45,080 --> 00:18:41,070
the undocking itself occurring over

183
00:18:47,660 --> 00:18:45,090
China at 11:47 and 50 seconds p.m.

184
00:18:50,120 --> 00:18:47,670
Central time on Saturday night just

185
00:18:55,900 --> 00:18:50,130
before 1:00 a.m. Central time Eastern

186
00:19:00,620 --> 00:18:58,610
unlatched itself from the Rassvet module

187
00:19:04,360 --> 00:19:00,630
that it had been attached to since

188
00:19:07,850 --> 00:19:04,370

December 23rd following the launch of

189
00:19:09,290 --> 00:19:07,860
the pettit kononenko and kuipers crew

190
00:19:12,020 --> 00:19:09,300
from the Baikonur cosmodrome in

191
00:19:14,270 --> 00:19:12,030
Kazakhstan two days earlier the

192
00:19:18,560 --> 00:19:14,280
undocking was followed by a quick test

193
00:19:20,870 --> 00:19:18,570
of the soyuz digital autopilot system an

194
00:19:24,710 --> 00:19:20,880
engineering analysis test that had been

195
00:19:26,600 --> 00:19:24,720
scheduled and pre-plan that enabled the

196
00:19:27,710 --> 00:19:26,610
Soyuz to begin backing away and phasing

197
00:19:30,100 --> 00:19:27,720
away from the international space

198
00:19:32,450 --> 00:19:30,110
station over a period of two orbits

199
00:19:35,540 --> 00:19:32,460
before the deorbit burn of the Soyuz

200
00:19:37,400 --> 00:19:35,550
engines at 219 a.m. Central time that

201
00:19:39,650 --> 00:19:37,410
enabled the Soyuz to drop out of orbit

202
00:19:41,900 --> 00:19:39,660
for its descent back into the Earth's

203
00:19:44,480 --> 00:19:41,910
atmosphere the three sections of the

204
00:19:47,090 --> 00:19:44,490
Soyuz separated pirate technically from

205
00:19:48,980 --> 00:19:47,100
one another 28 minutes after the deorbit

206
00:19:50,270 --> 00:19:48,990
burn that was followed a few minutes

207
00:19:52,910 --> 00:19:50,280
later by the deployment of the

208
00:19:54,980 --> 00:19:52,920
parachutes and a flawless descent on a

209
00:19:58,580 --> 00:19:54,990
Sunday afternoon for a landing in

210
00:20:00,590 --> 00:19:58,590
southeast Kazakhstan about 145

211
00:20:44,640 --> 00:20:00,600
kilometers just to the southeast of the

212
00:20:51,060 --> 00:20:48,870
so at this point as the Ross Aviance

213
00:20:53,340 --> 00:20:51,070

search and recovery forces make their

214
00:20:56,460 --> 00:20:53,350
way in there helicopters and all-terrain

215
00:20:58,830 --> 00:20:56,470
vehicles to the spacecraft again the

216
00:21:00,690 --> 00:20:58,840
helicopters several of them already on

217
00:21:03,480 --> 00:21:00,700
the ground others in the process of

218
00:21:07,799 --> 00:21:03,490
descending for a landing in a circular

219
00:21:09,510 --> 00:21:07,809
pattern around the spacecraft itself we

220
00:21:11,100 --> 00:21:09,520
will be standing by for additional

221
00:21:13,110 --> 00:21:11,110
television from the landing site

222
00:21:15,000 --> 00:21:13,120
hopefully with the extraction of the

223
00:21:17,310 --> 00:21:15,010
crew from the spacecraft they will be

224
00:21:19,620 --> 00:21:17,320
placed in individual reclining

225
00:21:22,650 --> 00:21:19,630
comfortable chaise lounge type chairs

226
00:21:24,570 --> 00:21:22,660
that to have an opportunity to begin to

227
00:21:26,700 --> 00:21:24,580
readapt Earth's gravity for the first

228
00:21:28,530 --> 00:21:26,710
time in six and a half months before

229
00:21:31,669 --> 00:21:28,540
they are carried in those chairs into

230
00:21:34,140 --> 00:21:31,679
that inflatable medical tent nearby to

231
00:21:37,290 --> 00:21:34,150
get out of there Russian sokol launch

232
00:21:40,380 --> 00:21:37,300
and entry suits and there we have now

233
00:21:43,290 --> 00:21:40,390
television from the landing site and you

234
00:21:49,399 --> 00:21:43,300
can see that the Soyuz vehicle landed in

235
00:21:54,419 --> 00:21:52,080
depending on the conditions out at the

236
00:21:58,080 --> 00:21:54,429
landing site and the wind sometimes the

237
00:22:00,600 --> 00:21:58,090
spacecraft will land and bounce or be

238
00:22:02,789 --> 00:22:00,610

dragged off onto its side in this case

239
00:22:05,899 --> 00:22:02,799
you can see that the Soyuz landed

240
00:22:08,490 --> 00:22:05,909
upright what this means is the

241
00:22:11,159 --> 00:22:08,500
extraction hatches at the top of the

242
00:22:13,649 --> 00:22:11,169
spacecraft a small ladder will be

243
00:22:16,110 --> 00:22:13,659
erected alongside of the spacecraft and

244
00:22:20,430 --> 00:22:16,120
the crew then will be pulled out of that

245
00:22:21,870 --> 00:22:20,440
top hatch one by one in order to make

246
00:22:23,820 --> 00:22:21,880
their way down the ladder and into the

247
00:22:58,390 --> 00:22:23,830
chairs that will be set up a short time

248
00:23:03,160 --> 00:22:59,980
you can see on the right side of your

249
00:23:06,790 --> 00:23:03,170
screen RSC Energia personnel beginning

250
00:23:09,250 --> 00:23:06,800
to bring that extraction ladder to the

251
00:23:11,950 --> 00:23:09,260
side of the soyuz spacecraft which

252
00:23:15,040 --> 00:23:11,960
landed upright with touchdown occurring

253
00:23:16,660 --> 00:23:15,050
just 12 minutes ago you can see the

254
00:23:18,880 --> 00:23:16,670
rapidity with which the search and

255
00:23:21,780 --> 00:23:18,890
recovery forces attend to the spacecraft

256
00:23:24,520 --> 00:23:21,790
that of course aided by what was a

257
00:23:27,760 --> 00:23:24,530
bull's-eye landing for the Soyuz vehicle

258
00:23:31,030 --> 00:23:27,770
bringing Alek kononenko Don Pettit and

259
00:23:34,120 --> 00:23:31,040
Andre Kuiper's back to Earth after 193

260
00:23:37,390 --> 00:23:34,130
days in space 191 days onboard the

261
00:23:40,900 --> 00:23:37,400
International Space Station back up on

262
00:23:44,530 --> 00:23:40,910
the station 250 miles overhead the newly

263
00:23:46,360 --> 00:23:44,540

comprised expedition 32 crew the new

264
00:23:49,300 --> 00:23:46,370
commander gennady padalka the first

265
00:23:51,190 --> 00:23:49,310
three time station commander along with

266
00:23:53,610 --> 00:23:51,200
nasa flight engineer joe acaba and

267
00:23:57,070 --> 00:23:53,620
russian flight engineer sergei revin

268
00:23:59,230 --> 00:23:57,080
will be going to bed a short time from

269
00:24:01,720 --> 00:23:59,240
now for an extended sleep period Sunday

270
00:24:05,470 --> 00:24:01,730
and Monday we'll both be off-duty days

271
00:24:07,060 --> 00:24:05,480
for the crew onboard the International

272
00:24:09,100 --> 00:24:07,070
Space Station before they resume their

273
00:24:39,130 --> 00:24:09,110
normal complement of activities

274
00:24:48,529 --> 00:24:45,529
once again this latter device is placed

275
00:24:50,240 --> 00:24:48,539
around the Soyuz capsule for landings

276
00:24:55,700 --> 00:24:50,250
that occur when the vehicle lands

277
00:25:01,700 --> 00:24:55,710
upright it facilitates the extraction of

278
00:25:03,260 --> 00:25:01,710
the crew out of the top hatch first out

279
00:25:06,370 --> 00:25:03,270
of the vehicle will be the commander

280
00:25:12,470 --> 00:25:10,460
if form holds Don Pettit would be second

281
00:25:14,690 --> 00:25:12,480
to be extracted out of the right seat

282
00:25:17,720 --> 00:25:14,700
and the board engineer Andre Kuiper's

283
00:25:20,590 --> 00:25:17,730
from the European Space Agency and the

284
00:25:34,799 --> 00:25:20,600
left seat for today's entry and landing

285
00:25:42,039 --> 00:25:39,010
and once again in stark contrast to the

286
00:25:44,140 --> 00:25:42,049
weather conditions that Kononenko

287
00:25:47,380 --> 00:25:44,150
Kuiper's and Pettit left the planet on

288
00:25:48,640 --> 00:25:47,390

back on December 21st minus 22 degrees

289
00:25:51,909 --> 00:25:48,650
Fahrenheit from the Baikonur cosmodrome

290
00:25:55,240 --> 00:25:51,919
in Kazakhstan which is to the south west

291
00:25:59,440 --> 00:25:55,250
of where this spacecraft currently is

292
00:26:02,049 --> 00:25:59,450
sitting it is in the low 80s a short

293
00:27:41,880 --> 00:26:02,059
sleeve short sleeve environment for the

294
00:27:48,340 --> 00:27:46,150
the personnel in the blue suits are NASA

295
00:27:49,780 --> 00:27:48,350
support personnel you just saw dan

296
00:27:53,320 --> 00:27:49,790
Hartman from the International Space

297
00:27:59,050 --> 00:27:53,330
Station program office representing the

298
00:28:01,030 --> 00:27:59,060
ISS program at the landing site and RSC

299
00:28:04,540 --> 00:28:01,040
energy a personnel now at the top of the

300
00:28:06,280 --> 00:28:04,550
extraction table with the ladders to

301
00:28:09,400 --> 00:28:06,290
begin the process of opening up the

302
00:29:19,630 --> 00:28:09,410
hatch the precursor to the extraction of

303
00:29:26,160 --> 00:29:22,270
just after 2:30 p.m. at the landing site

304
00:29:28,600 --> 00:29:26,170
on a Sunday afternoon in Kazakhstan as

305
00:29:32,560 --> 00:29:28,610
search and recovery personnel and

306
00:29:36,730 --> 00:29:32,570
Russian technicians begin to work toward

307
00:29:41,350 --> 00:29:36,740
the extraction of the crew the Soyuz

308
00:29:46,600 --> 00:29:41,360
landing just about 18 minutes ago within

309
00:29:48,190 --> 00:29:46,610
seconds after touchdown Russian mi-8

310
00:29:50,050 --> 00:29:48,200
helicopters carrying the support

311
00:29:53,880 --> 00:29:50,060
personnel began to land in sequential

312
00:29:56,460 --> 00:29:53,890
fashion near the spacecraft to expedite

313
00:30:00,070 --> 00:29:56,470

their extraction they'll be placed in

314
00:30:02,980 --> 00:30:00,080
comfortable chairs reclining chairs to

315
00:30:05,140 --> 00:30:02,990
have an opportunity to get their sea

316
00:30:05,980 --> 00:30:05,150
legs or land legs back as the case may

317
00:30:13,240 --> 00:30:05,990
be

318
00:30:15,910 --> 00:30:13,250
they're brought in to a medical tent

319
00:30:18,550 --> 00:30:15,920
nearby that has been inflated and

320
00:30:19,990 --> 00:30:18,560
erected that medical tent is where the

321
00:30:22,270 --> 00:30:20,000
crew will get out of there Russian

322
00:30:24,190 --> 00:30:22,280
ahsoka launch and entry suits and get

323
00:30:28,180 --> 00:30:24,200
into more comfortable clothing before

324
00:30:30,340 --> 00:30:28,190
they are flown back by helicopter each

325
00:30:33,190 --> 00:30:30,350
crew member has its own his own

326
00:30:35,500 --> 00:30:33,200
helicopter to fly back two hours to the

327
00:30:40,930 --> 00:30:35,510
city of karaganda which was the staging

328
00:30:43,420 --> 00:30:40,940
city for this landing today there they

329
00:30:48,750 --> 00:30:43,430
will be greeted by a traditional Kazakh

330
00:30:52,210 --> 00:30:48,760
welcoming ceremony Pettit and Kuiper's

331
00:30:54,730 --> 00:30:52,220
will board a NASA plane to begin the

332
00:30:56,980 --> 00:30:54,740
long flight back to Houston while Alek

333
00:30:58,660 --> 00:30:56,990
Kononenko boards a Gagarin cosmonaut

334
00:31:00,760 --> 00:30:58,670
training center plane to fly back to

335
00:31:36,590 --> 00:31:00,770
Tchaikovsky airfield outside of star

336
00:31:42,899 --> 00:31:40,049
and you can see although somewhat

337
00:31:46,200 --> 00:31:42,909
obscured by the hoard of people around

338
00:31:49,010 --> 00:31:46,210

the spacecraft oleg kononenko the soyuz

339
00:31:54,120 --> 00:31:49,020
commander is now out of the top hatch

340
00:31:59,639 --> 00:31:54,130
his extraction coming in very very Swift

341
00:32:01,769 --> 00:31:59,649
fashion just about 20 minutes after the

342
00:32:04,680 --> 00:32:01,779
touchdown there was Kononenko placed in

343
00:32:06,750 --> 00:32:04,690
the center seat he will be flanked by

344
00:32:10,320 --> 00:32:06,760
Pettit and Kuiper's as soon as they are

345
00:32:12,990 --> 00:32:10,330
extracted the removal of the crew

346
00:32:15,210 --> 00:32:13,000
members from the Soyuz vehicle is always

347
00:32:21,049 --> 00:32:15,220
expedited if the vehicle lands upright

348
00:32:21,059 --> 00:32:24,710
the ground one

349
00:32:33,690 --> 00:32:30,480
go ahead of the crew doing have they

350
00:32:36,330 --> 00:32:33,700
extracted them from the capsule are you

351
00:32:47,750 --> 00:32:36,340
getting the imagery so far they only got

352
00:32:53,600 --> 00:32:49,860
what's the schedule gonna be like for us

353
00:32:58,590 --> 00:32:56,639
Robocop well as soon as they've

354
00:33:00,810 --> 00:32:58,600
extracted everybody from the descent

355
00:33:10,169 --> 00:33:00,820
module I'll give you a call and then

356
00:33:12,930 --> 00:33:10,179
we'll revisit our timeline okay but I

357
00:33:15,960 --> 00:33:12,940
think we won't be able to really go to

358
00:33:17,490 --> 00:33:15,970
sleep until morning them so I'll call

359
00:33:19,409 --> 00:33:17,500
you later in the day and I'll get you

360
00:33:21,960 --> 00:33:19,419
all the data on pressure gauge readings

361
00:33:23,630 --> 00:33:21,970
and so on and so forth correct all right

362
00:33:28,370 --> 00:33:23,640
so I used commander Oleg Kononenko

363
00:33:31,030 --> 00:33:28,380

waving as he's being attended to by his

364
00:33:34,020 --> 00:33:31,040
complement of Russian

365
00:33:36,909 --> 00:33:34,030
flight surgeon and nurse personnel

366
00:33:39,760 --> 00:33:36,919
everything continuing to proceed on

367
00:33:41,860 --> 00:33:39,770
track the next crew member who should be

368
00:33:43,870 --> 00:33:41,870
extracted should be done headed out of

369
00:33:45,669 --> 00:33:43,880
the right seat of the Soyuz vehicle and

370
00:33:47,650 --> 00:33:45,679
as you heard in that space-to-ground

371
00:33:50,500 --> 00:33:47,660
communication with the Russian Mission

372
00:33:53,010 --> 00:33:50,510
Control Center the new station commander

373
00:33:55,870 --> 00:33:53,020
expedition 32 commander gennady padalka

374
00:33:58,330 --> 00:33:55,880
inquiring about how the crew is doing

375
00:34:00,130 --> 00:33:58,340
and was informed that kononenko is out

376
00:35:08,160 --> 00:34:00,140
and that the rest of the extraction

377
00:35:12,670 --> 00:35:10,810
continuing to receive live television

378
00:35:15,760 --> 00:35:12,680
from the landing site in southeast

379
00:35:18,430 --> 00:35:15,770
Kazakhstan Alec Kononenko the Soyuz

380
00:35:20,560 --> 00:35:18,440
commander was extracted from the center

381
00:35:25,770 --> 00:35:20,570
seat of the Soyuz which landed upright

382
00:35:37,800 --> 00:35:25,780
at 3:14 a.m. Central Time 2:14 p.m.

383
00:35:41,890 --> 00:35:37,810
Kazakhstan time about 24 minutes ago the

384
00:35:44,349 --> 00:35:41,900
recovery process continues in good order

385
00:35:47,980 --> 00:35:44,359
the Soyuz space crafts systems have been

386
00:35:50,440 --> 00:35:47,990
saved by RSC energy of personnel once

387
00:35:52,090 --> 00:35:50,450
all three crew members are out they'll

388
00:35:55,240 --> 00:35:52,100

have a few minutes for a photo

389
00:35:58,150 --> 00:35:55,250
opportunity and once again to get their

390
00:36:00,640 --> 00:35:58,160
land legs back a bit as they adapt to

391
00:36:02,940 --> 00:36:00,650
the sensation of Earth's gravity for the

392
00:36:05,080 --> 00:36:02,950
first time in six and a half months

393
00:36:08,320 --> 00:36:05,090
they'll be brought into a nearby

394
00:36:10,240 --> 00:36:08,330
inflated medical tent to have their

395
00:36:13,210 --> 00:36:10,250
sokol launch and entry suits removed

396
00:36:17,170 --> 00:36:13,220
they'll slip into more comfortable

397
00:36:19,300 --> 00:36:17,180
clothing and if the time line goes as it

398
00:36:21,040 --> 00:36:19,310
usually does at the landing site about

399
00:36:23,849 --> 00:36:21,050
an hour and a half from now they should

400
00:36:26,980 --> 00:36:23,859
be wheels up in their respective

401
00:36:30,040 --> 00:36:26,990
helicopters for a two-hour flight back

402
00:36:33,820 --> 00:36:30,050
to the staging city of karaganda which

403
00:36:35,830 --> 00:36:33,830
is about 450 kilometres to the north

404
00:37:52,220 --> 00:36:35,840
east of the landing site that you're

405
00:37:57,900 --> 00:37:54,510
this view at the landing site and the

406
00:38:01,020 --> 00:37:57,910
white shirt is Alexy Krasnov who was the

407
00:38:02,490 --> 00:38:01,030
head of piloted programs basically the

408
00:38:08,340 --> 00:38:02,500
head of human spaceflight for the

409
00:38:10,530 --> 00:38:08,350
Russian Federal Space Agency on hand to

410
00:38:12,450 --> 00:38:10,540
witness firsthand the landing of the

411
00:38:14,730 --> 00:38:12,460
Soyuz vehicle the extraction of the crew

412
00:38:17,130 --> 00:38:14,740
and the whole process of the search and

413
00:39:05,620 --> 00:38:17,140

recovery of returning crewmembers from

414
00:39:12,650 --> 00:39:09,320
and European Space Agency flight

415
00:39:14,930 --> 00:39:12,660
engineer andre kuipers now out of the

416
00:39:16,490 --> 00:39:14,940
Soyuz vehicle so they reversed order of

417
00:39:19,160 --> 00:39:16,500
what is normally the extraction process

418
00:39:21,320 --> 00:39:19,170
of the crew wipers being helped down

419
00:39:25,490 --> 00:39:21,330
that a slide and will be carried now to

420
00:39:28,460 --> 00:39:25,500
that reclining chair wipers back on

421
00:39:31,190 --> 00:39:28,470
earth the second flight in the books 204

422
00:39:34,970 --> 00:39:31,200
days in space on to missions for Andre

423
00:39:37,100 --> 00:39:34,980
Kuiper's Kononenko that you see on the

424
00:39:41,210 --> 00:39:37,110
left-hand side of your screen now has

425
00:39:44,960 --> 00:39:41,220
completed 392 days in space on his two

426
00:39:47,870 --> 00:39:44,970
flights Kononenko flew four years ago as

427
00:39:50,960 --> 00:39:47,880
part of expedition 17 and now is tied

428
00:39:53,060 --> 00:39:50,970
for 14th place on the all-time list for

429
00:39:54,590 --> 00:39:53,070
space endurance and there at the landing

430
00:39:57,380 --> 00:39:54,600
site is the head of the Russian Federal

431
00:40:00,590 --> 00:39:57,390
Space Agency vladimir popov c'n who flew

432
00:40:04,190 --> 00:40:00,600
on one of the Russian mi-8 helicopters

433
00:40:06,530 --> 00:40:04,200
to the landing site to see how the

434
00:40:45,880 --> 00:40:06,540
landing operations occur up close and

435
00:40:53,120 --> 00:40:49,460
and last but not least Don Pettit NASA

436
00:40:55,220 --> 00:40:53,130
flight engineer who has just completed

437
00:40:59,559 --> 00:40:55,230
his second landing in a Soyuz vehicle

438
00:41:02,390 --> 00:40:59,569

and his third flight headed wrapping up

439
00:41:08,599 --> 00:41:02,400
370 days in space now fourth on the

440
00:41:55,350 --> 00:41:08,609
all-time list of US astronauts behind

441
00:41:55,360 --> 00:42:26,560
she's making you park bag

442
00:42:26,570 --> 00:44:37,160
Andrea and their babies

443
00:44:42,920 --> 00:44:40,190
once again you're watching video from

444
00:44:46,150 --> 00:44:42,930
the landing site in Southeast Kazakhstan

445
00:44:50,809 --> 00:44:46,160
where the soyuz tma-03m spacecraft

446
00:44:54,200 --> 00:44:50,819
touched down about 34 minutes ago

447
00:44:56,599 --> 00:44:54,210
right on time and right on target 3:14

448
00:45:00,950 --> 00:44:56,609
a.m. Central Time 2:14 p.m. at the

449
00:45:02,690 --> 00:45:00,960
landing site in Kazakhstan all three

450
00:45:04,849 --> 00:45:02,700
crew members have been extracted from

451
00:45:07,819 --> 00:45:04,859
the spacecraft they are in respective

452
00:45:11,599 --> 00:45:07,829
chairs to have a few minutes to relax

453
00:45:14,930 --> 00:45:11,609
and begin the adaptation back to a

454
00:45:15,940 --> 00:45:14,940
gravity environment andre kuipers there

455
00:45:19,009 --> 00:45:15,950
on the right

456
00:45:35,570 --> 00:45:19,019
Oleg Kononenko in the centre of your

457
00:45:49,320 --> 00:45:39,990
I'm Paris Thomas Connolly ladies patient

458
00:45:55,810 --> 00:45:53,790
Moscoe give a loose gennadi well

459
00:45:58,630 --> 00:45:55,820
everybody's been extracted from the

460
00:46:02,530 --> 00:45:58,640
descent module everybody's down on the

461
00:46:06,100 --> 00:46:02,540
ground everything is normal the works

462
00:46:11,109 --> 00:46:06,110
won then good to hear another mission

463
00:46:16,660 --> 00:46:11,119

completed well in that case we're gonna

464
00:46:21,850 --> 00:46:16,670
go off and get some rest all right you

465
00:46:27,640 --> 00:46:25,120
it's up to you really you know it's your

466
00:46:28,990 --> 00:46:27,650
discretion whenever you want to whenever

467
00:46:30,250 --> 00:46:29,000
you want to give us a call towards the

468
00:46:32,140 --> 00:46:30,260
evening yeah we're gonna give you Colt

469
00:46:33,609 --> 00:46:32,150
or towards the evening gets you the

470
00:46:36,970 --> 00:46:33,619
pressure gauge reading and so on and so

471
00:46:42,160 --> 00:46:36,980
forth well we'll do sounds good talk to

472
00:46:47,240 --> 00:46:45,350
with the landing of this Soyuz crew life

473
00:46:53,330 --> 00:46:47,250
continues onboard the International

474
00:46:56,180 --> 00:46:53,340
Space Station you just saw the as you're

475
00:46:58,610 --> 00:46:56,190
watching Andre Kuiper's at the landing

476
00:47:01,430 --> 00:46:58,620
site Oleg Kononenko next to him Don

477
00:47:03,590 --> 00:47:01,440
Pettit also has been extracted he is in

478
00:47:06,950 --> 00:47:03,600
the reclining chair next to Kononenko on

479
00:47:08,480 --> 00:47:06,960
the other side the new commander of the

480
00:47:14,090 --> 00:47:08,490
International Space Station gennady

481
00:47:17,780 --> 00:47:14,100
padalka padalka calling down to russian

482
00:47:20,180 --> 00:47:17,790
Mission Control and asking how the crew

483
00:47:23,180 --> 00:47:20,190
is doing flight controllers say they're

484
00:47:25,010 --> 00:47:23,190
doing just fine and padalka is saying

485
00:47:27,920 --> 00:47:25,020
we're going to go about our business now

486
00:47:29,360 --> 00:47:27,930
that business being an extended sleep

487
00:47:32,720 --> 00:47:29,370
period onboard the International Space

488
00:47:43,420 --> 00:47:32,730

Station and an off-duty day on Sunday

489
00:47:43,430 --> 00:50:01,590
you

490
00:50:07,930 --> 00:50:04,960
part of the post-landing operations

491
00:50:09,880 --> 00:50:07,940
include an opportunity for some photos

492
00:50:12,250 --> 00:50:09,890
to be taken around the crew members

493
00:50:15,940 --> 00:50:12,260
before they are lifted and there we go

494
00:50:19,660 --> 00:50:15,950
the first crew member soyuz commander

495
00:50:22,840 --> 00:50:19,670
oleg kononenko lifted now andre kuipers

496
00:50:26,650 --> 00:50:22,850
as they are being brought now into the

497
00:50:29,890 --> 00:50:26,660
inflatable medical tent nearby where

498
00:50:31,750 --> 00:50:29,900
they will have their Russian sokol

499
00:50:33,310 --> 00:50:31,760
launch and entry suits removed they'll

500
00:50:36,070 --> 00:50:33,320
be placed into more comfortable clothing

501
00:50:38,380 --> 00:50:36,080
as well Don Pettit of course and be

502
00:50:40,540 --> 00:50:38,390
prepared for a two hour helicopter

503
00:50:43,180 --> 00:50:40,550
flight back to the staging city of

504
00:50:46,140 --> 00:50:43,190
karaganda where the Russian mi-8

505
00:50:49,150 --> 00:50:46,150
helicopters departed from earlier today

506
00:50:51,820 --> 00:50:49,160
to begin to fan out and sequential

507
00:50:53,470 --> 00:50:51,830
fashion in and around the landing zone

508
00:51:02,440 --> 00:50:53,480
awaiting for the arrival of the Soyuz

509
00:51:02,450 --> 00:51:38,019
you

510
00:51:45,339 --> 00:51:43,149
and Don Pettit also being attended to as

511
00:51:48,339 --> 00:51:45,349
he is being carried into that medical

512
00:51:52,119 --> 00:51:48,349
tent all three crew members back on

513
00:51:55,259 --> 00:51:52,129

earth after 193 days in space 191 days

514
00:51:58,449 --> 00:51:55,269
onboard the International Space Station

515
00:52:01,149 --> 00:51:58,459
meanwhile attending to the removal of

516
00:52:03,489 --> 00:52:01,159
some cargo and samples brought back in

517
00:52:05,469 --> 00:52:03,499
the Soyuz vehicle RR SC and nerdier

518
00:52:07,959 --> 00:52:05,479
personnel and other members of the

519
00:52:11,679 --> 00:52:07,969
search and recovery forces the Soyuz

520
00:52:16,779 --> 00:52:11,689
landing at 3:14 a.m. Central Time 2:14

521
00:52:19,779 --> 00:52:16,789
p.m. Kazakhstan time a bull's-eye on