1
00:00:05,430 --> 00:00:03,350
we should be coming up now

2
00:00:09,350 --> 00:00:05,440
on the time for the crews to say their

3
00:00:11,270 --> 00:00:09,360
final farewells to each other before the

4
00:00:13,030 --> 00:00:11,280
six crew members uh close hatches

5
00:00:26,150 --> 00:00:13,040
between their two vehicles the space

6
00:01:08,230 --> 00:00:27,589
it's actually going to place just a

7
00:01:08,240 --> 00:01:20,390
foreign

8
00:01:24,310 --> 00:01:22,310
chris cassidy there on the left side of

9
00:01:26,710 --> 00:01:24,320
your screen of course the nasa astronaut

10
00:01:29,109 --> 00:01:26,720
it's part of the crew returning home

11
00:01:31,350 --> 00:01:29,119
tonight and then with him uh commander

12
00:01:34,230 --> 00:01:31,360
pablo benigradov and alexander flight

13
00:01:36,710 --> 00:01:34,240

engineer alexander misurkin on the far

14
00:01:52,870 --> 00:01:36,720
right hand side just floating out of you

15
00:03:21,030 --> 00:02:08,949
right

16
00:03:24,229 --> 00:03:22,790
again seeing some final farewells

17
00:03:27,589 --> 00:03:24,239
between

18
00:03:29,990 --> 00:03:27,599
the uh expedition 36 crew members

19
00:03:33,430 --> 00:03:30,000
planning to leave the space station and

20
00:03:35,750 --> 00:03:33,440
return to earth tonight uh

21
00:03:38,229 --> 00:03:35,760
getting some hugs and handshakes from

22
00:03:40,149 --> 00:03:38,239
the crew they'll be leaving behind

23
00:03:43,190 --> 00:03:40,159
which will become expedition 37 when

24
00:03:46,789 --> 00:03:44,789
commander pablo vinogradov there in the

25
00:03:48,630 --> 00:03:46,799
center of the screen waving and on

26
00:03:51,270 --> 00:03:48,640
either side of him

27
00:04:13,030 --> 00:03:51,280
chris cassidy on the left and alexander

28
00:04:13,040 --> 00:04:17,030
start closing hatches now

29
00:04:22,710 --> 00:04:19,030
and the crew all moving now into their

30
00:04:27,510 --> 00:04:25,990
into their soyuz tma-08m

31
00:04:29,670 --> 00:04:27,520
so that uh

32
00:04:31,270 --> 00:04:29,680
crew left behind can close the hatches

33
00:04:33,189 --> 00:04:31,280
between them and the international space

34
00:04:35,670 --> 00:04:33,199
station and prepare for the

35
00:04:40,550 --> 00:04:35,680
undocking of that vehicle in just a few

36
00:04:48,950 --> 00:04:43,510
hold on just a second i'll

37
00:04:48,960 --> 00:05:06,870
let me make it closer

38
00:05:33,110 --> 00:05:08,150

will you close

39
00:05:38,150 --> 00:05:35,749
soon to be official expedition 37

40
00:05:40,629 --> 00:05:38,160
commander here paul uh theodore your

41
00:05:43,510 --> 00:05:40,639
chicken working to close the hatch here

42
00:05:45,029 --> 00:05:43,520
on the international space station

43
00:05:45,749 --> 00:05:45,039
side of uh

44
00:05:48,790 --> 00:05:45,759
of

45
00:06:04,870 --> 00:05:50,550
while the crew in the soyuz works the

46
00:06:04,880 --> 00:06:11,110
hatches are closed

47
00:06:17,110 --> 00:06:13,990
we're receiving the image so the ssd

48
00:06:19,110 --> 00:06:17,120
mode is complete

49
00:06:20,870 --> 00:06:19,120
team here on the ground confirming that

50
00:06:22,550 --> 00:06:20,880
the soyuz has undocked and you can see

51
00:06:24,870 --> 00:06:22,560
here in the

52
00:06:27,029 --> 00:06:24,880
view being sent down from the soyuz via

53
00:06:28,710 --> 00:06:27,039
russian ground stations moving away now

54
00:06:30,150 --> 00:06:28,720
from the international space station

55
00:06:33,430 --> 00:06:30,160
that incurred

56
00:06:35,430 --> 00:06:33,440
on time at 6 35 pm central time what

57
00:06:37,430 --> 00:06:35,440
about the satellite is it on

58
00:06:40,150 --> 00:06:37,440
no not yet could you please activate the

59
00:06:43,990 --> 00:06:42,070
okay

60
00:06:52,469 --> 00:06:44,000
yes you you can

61
00:06:57,110 --> 00:06:55,589
okay we can see you clear clearly soyuz

62
00:06:58,550 --> 00:06:57,120
tma-08m

63
00:07:01,749 --> 00:06:58,560

carrying

64
00:07:03,830 --> 00:07:01,759
expedition 36 commander pablo

65
00:07:05,909 --> 00:07:03,840
flight engineers alexander misurkin and

66
00:07:07,430 --> 00:07:05,919
chris cassidy has undocked from the

67
00:07:08,309 --> 00:07:07,440
international space station that took

68
00:07:11,110 --> 00:07:08,319
place

69
00:07:13,430 --> 00:07:11,120
as scheduled at 6 35 pm central time

70
00:07:15,430 --> 00:07:13,440
when the station in soyuz are about 258

71
00:07:17,029 --> 00:07:15,440
miles above mongolia

72
00:07:19,510 --> 00:07:17,039
and as you can see it's now slowly

73
00:07:21,110 --> 00:07:19,520
making its way back away from the

74
00:07:23,029 --> 00:07:21,120
international space station

75
00:07:25,189 --> 00:07:23,039
in preparation for the separation burn

76
00:07:27,029 --> 00:07:25,199
that will speed that

77
00:07:29,550 --> 00:07:27,039
that move up a bit

78
00:07:31,589 --> 00:07:29,560
that wraps up a

79
00:07:33,589 --> 00:07:31,599
166-day stay

80
00:07:35,189 --> 00:07:33,599
aboard the international space station

81
00:07:36,150 --> 00:07:35,199
for that crew

82
00:07:37,350 --> 00:07:36,160
they

83
00:07:39,430 --> 00:07:37,360
launched

84
00:07:42,950 --> 00:07:39,440
to this to the space station on march

85
00:07:44,390 --> 00:07:42,960
28th and uh arrived that same day making

86
00:07:47,510 --> 00:07:44,400
the first

87
00:07:47,520 --> 00:07:55,189
to the space station for any crew

88
00:07:59,029 --> 00:07:56,830

and with that undocking it now

89
00:08:01,270 --> 00:07:59,039
officially marks the beginning of

90
00:08:04,869 --> 00:08:01,280
expedition 37 for the crew members left

91
00:08:06,710 --> 00:08:04,879
on board the space station that's good

92
00:08:08,469 --> 00:08:06,720
their commanders now

93
00:08:09,350 --> 00:08:08,479
theodore you're cheating

94
00:08:12,070 --> 00:08:09,360
four

95
00:08:13,909 --> 00:08:12,080
five zero two five and along with uh

96
00:08:16,070 --> 00:08:13,919
along with him flight engineers luca

97
00:08:18,710 --> 00:08:16,080
parmitano and karen nyberg we are

98
00:08:27,510 --> 00:08:18,720
standing by for the diplo activation we

99
00:08:31,589 --> 00:08:29,029
and the team here on the ground also now

100
00:08:33,350 --> 00:08:31,599
confirming that the separation burn is

101
00:08:35,829 --> 00:08:33,360
in progress

102
00:08:39,190 --> 00:08:35,839
so the activation of the pero

103
00:08:39,200 --> 00:08:42,870
and that 15 second burn

104
00:08:48,150 --> 00:08:45,750
now complete wide angle lens the 15

105
00:08:49,509 --> 00:08:48,160
seconds that the soyuz jets fire ease it

106
00:08:52,070 --> 00:08:49,519
farther away from the international

107
00:08:53,750 --> 00:08:52,080
space station at a rate of just over a

108
00:08:55,670 --> 00:08:53,760
mile per hour

109
00:09:03,350 --> 00:08:55,680
begins by moving it

110
00:09:06,150 --> 00:09:05,030
this again should put them a safe

111
00:09:08,150 --> 00:09:06,160
distance

112
00:09:10,710 --> 00:09:08,160
away from the station in time for the

113
00:09:12,870 --> 00:09:10,720

deorbit burn that will drop the soyuz

114
00:09:15,190 --> 00:09:12,880
back into the earth's atmosphere at 905

115
00:09:17,509 --> 00:09:15,200
pm central time and put them on a return

116
00:09:34,389 --> 00:09:17,519
course for kazakhstan

117
00:09:40,070 --> 00:09:37,910
and it flies beautifully

118
00:09:41,829 --> 00:09:40,080
okay so the inhibit of the dynamic

119
00:09:43,590 --> 00:09:41,839
operations has been

120
00:09:47,030 --> 00:09:43,600
sent via the command radial in case

121
00:09:55,269 --> 00:09:49,590
very beautiful image we are getting very

122
00:10:00,389 --> 00:09:57,190
because we were wiping everything you

123
00:10:04,630 --> 00:10:00,399
know all axles

124
00:10:06,069 --> 00:10:04,640
so should we deactivate the f4 yorkie

125
00:10:07,269 --> 00:10:06,079
no not yet

126
00:10:08,470 --> 00:10:07,279
leave it as

127
00:10:27,509 --> 00:10:08,480
it is

128
00:10:31,430 --> 00:10:29,509
in just a moment the soyuz is scheduled

129
00:10:34,470 --> 00:10:31,440
to be directly below the international

130
00:10:36,150 --> 00:10:34,480
space station between it and the earth

131
00:10:38,230 --> 00:10:36,160
and then it's going to begin

132
00:10:41,190 --> 00:10:38,240
phasing out below and in front of the

133
00:11:10,470 --> 00:10:43,030
as it continues moving further away in

134
00:11:10,480 --> 00:11:15,670
okay

135
00:11:15,680 --> 00:11:40,790
your head karate speaking

136
00:11:40,800 --> 00:12:04,949
bye

137
00:12:11,190 --> 00:12:08,470
and as you can see soyuz tma-08m has now

138
00:12:21,430 --> 00:12:11,200

landed was at 10 58

139
00:12:21,440 --> 00:12:34,790
and special ground one

140
00:12:38,550 --> 00:12:36,230
good evening to our listening and

141
00:12:40,629 --> 00:12:38,560
viewing audience around the world

142
00:12:42,629 --> 00:12:40,639
i don't know if you've had live tv from

143
00:12:44,310 --> 00:12:42,639
the landing site yet you'll probably be

144
00:12:46,470 --> 00:12:44,320
getting that shortly

145
00:12:48,629 --> 00:12:46,480
soyuz commander pavel vinogradov the

146
00:12:50,550 --> 00:12:48,639
oldest human ever to land in a soyuz

147
00:12:53,190 --> 00:12:50,560
vehicle at the age of 60

148
00:12:55,350 --> 00:12:53,200
is sitting very comfortably in one of

149
00:12:57,829 --> 00:12:55,360
the three reclining chairs just outside

150
00:13:00,310 --> 00:12:57,839
of the soyuz spacecraft which landed on

151
00:13:02,150 --> 00:13:00,320
its side on this spill and sunny

152
00:13:03,750 --> 00:13:02,160
wednesday morning on the southern step

153
00:13:04,550 --> 00:13:03,760
of kazakhstan

154
00:13:09,269 --> 00:13:04,560
the

155
00:13:11,350 --> 00:13:09,279
recovery forces who arrived within

156
00:13:14,470 --> 00:13:11,360
literally seconds of the touchdown of

157
00:13:17,350 --> 00:13:14,480
the soyuz tma-08m spacecraft are in the

158
00:13:20,069 --> 00:13:17,360
process of extracting chris cassidy and

159
00:13:22,150 --> 00:13:20,079
alexander misurkin as well they will be

160
00:13:24,629 --> 00:13:22,160
placed in those reclining chairs

161
00:13:26,790 --> 00:13:24,639
flanking pavel vinogradov just a few

162
00:13:28,790 --> 00:13:26,800
minutes from now we'll stay on with you

163
00:13:31,590 --> 00:13:28,800

through the extraction of the crew and

164
00:13:34,629 --> 00:13:31,600
then after a few minutes to get their

165
00:13:37,110 --> 00:13:34,639
land legs as it were they'll be hoisted

166
00:13:39,910 --> 00:13:37,120
on those reclining chairs and brought

167
00:13:42,790 --> 00:13:39,920
into a nearby inflatable medical tent to

168
00:13:45,110 --> 00:13:42,800
begin some unique pilot field tests as

169
00:13:47,430 --> 00:13:45,120
they are called these are tests that are

170
00:13:48,870 --> 00:13:47,440
designed to add to a database

171
00:13:50,949 --> 00:13:48,880
for not only

172
00:13:52,790 --> 00:13:50,959
the one-year crew scott kelly and

173
00:13:55,110 --> 00:13:52,800
mikhail kornienko

174
00:13:56,949 --> 00:13:55,120
when they return from their year-long

175
00:13:59,870 --> 00:13:56,959
sojourn on board the international space

176
00:14:02,710 --> 00:13:59,880
station in march of 2016 but also for

177
00:14:05,430 --> 00:14:02,720
interplanetary travel as well

178
00:14:07,509 --> 00:14:05,440
these tests will include

179
00:14:10,150 --> 00:14:07,519
cassidy and misurkin who will be

180
00:14:12,949 --> 00:14:10,160
attended by nasa and institute of

181
00:14:15,110 --> 00:14:12,959
biomedical problems personnel

182
00:14:16,550 --> 00:14:15,120
taking data on their ability to

183
00:14:18,230 --> 00:14:16,560
unassisted

184
00:14:20,629 --> 00:14:18,240
move to a standing position from a

185
00:14:22,870 --> 00:14:20,639
sitting position then from a prone

186
00:14:25,509 --> 00:14:22,880
position to a standing position and then

187
00:14:27,030 --> 00:14:25,519
a heel to toe walk on an unassisted

188
00:14:29,110 --> 00:14:27,040

basis

189
00:14:31,430 --> 00:14:29,120
so you know we are seeing live video now

190
00:14:32,949 --> 00:14:31,440
and i can tell that cassidy

191
00:14:34,550 --> 00:14:32,959
as well as vinogradov are both out of

192
00:14:36,550 --> 00:14:34,560
the capsule looks like everything's

193
00:14:37,509 --> 00:14:36,560
going pretty smoothly

194
00:14:46,310 --> 00:14:37,519
indeed

195
00:14:51,829 --> 00:14:48,629
so the final member of the expedition 36

196
00:14:54,790 --> 00:14:51,839
crew is now being gently

197
00:14:56,949 --> 00:14:54,800
pulled out of the top hatch of the soyuz

198
00:14:59,430 --> 00:14:56,959
spacecraft which again landed on its

199
00:15:01,670 --> 00:14:59,440
side here on the stuff of kazakhstan and

200
00:15:04,310 --> 00:15:01,680
misurkin is now out of the soyuz and

201
00:15:06,230 --> 00:15:04,320
he'll be placed in his uh his reclining

202
00:15:09,030 --> 00:15:06,240
seat his comfortable

203
00:15:11,509 --> 00:15:09,040
pseudo shades lounge if you will and

204
00:15:14,069 --> 00:15:11,519
have an opportunity to

205
00:15:16,069 --> 00:15:14,079
get his land legs for a few minutes he

206
00:15:18,470 --> 00:15:16,079
again one of the two subjects of these

207
00:15:21,269 --> 00:15:18,480
unique pilot fuel tests that will be

208
00:15:23,910 --> 00:15:21,279
conducted inside the medical tent in the

209
00:15:25,829 --> 00:15:23,920
minutes ahead here once in the medical

210
00:15:27,670 --> 00:15:25,839
tent they'll

211
00:15:30,069 --> 00:15:27,680
be assisted in the removal of their

212
00:15:32,870 --> 00:15:30,079
circle launch and entry suits

213
00:15:35,509 --> 00:15:32,880

before they undergo the first initial

214
00:15:37,350 --> 00:15:35,519
battery of normal regular standard

215
00:15:39,350 --> 00:15:37,360
biomedical tests

216
00:15:41,509 --> 00:15:39,360
and then on to the pilot field test that

217
00:15:43,189 --> 00:15:41,519
we discussed a few minutes ago

218
00:15:45,829 --> 00:15:43,199
the three sets of tests that will begin

219
00:15:47,990 --> 00:15:45,839
to acquire data these are tests that are

220
00:15:50,230 --> 00:15:48,000
expected to be conducted after every

221
00:15:52,550 --> 00:15:50,240
landing on at least

222
00:15:54,870 --> 00:15:52,560
the us crew member and one of the

223
00:15:57,350 --> 00:15:54,880
russian crew members that will fly on

224
00:15:59,269 --> 00:15:57,360
any respective soyuz vehicle

225
00:16:01,509 --> 00:15:59,279
to gather data that will be valuable

226
00:16:03,590 --> 00:16:01,519
initially uh when scott kelly and

227
00:16:05,189 --> 00:16:03,600
mikhail karnienko return from the

228
00:16:09,670 --> 00:16:05,199
international space station in march of

229
00:16:11,910 --> 00:16:09,680
2016 after one year in space

230
00:16:15,590 --> 00:16:11,920
of all three crew members now safely out

231
00:16:18,470 --> 00:16:15,600
of the soyuz capsule the tma-08m which

232
00:16:21,030 --> 00:16:18,480
landed right on time at

233
00:16:23,670 --> 00:16:21,040
9 58 pm central time

234
00:16:23,680 --> 00:16:28,069
8 58 a.m kazakhstan time

235
00:16:33,189 --> 00:16:30,629
hold it and the crew members now

236
00:16:34,389 --> 00:16:33,199
being carried to a medical tent to

237
00:16:36,870 --> 00:16:34,399
undergo

238
00:16:38,949 --> 00:16:36,880

not only the the normal medical tests

239
00:16:40,389 --> 00:16:38,959
that all crew members go through after

240
00:16:41,430 --> 00:16:40,399
returning from space but also some

241
00:16:43,910 --> 00:16:41,440
additional

242
00:16:47,269 --> 00:16:43,920
tests that are going to help us build a

243
00:16:49,749 --> 00:16:47,279
baseline of data on