



1
00:00:12,230 --> 00:00:07,990
and we have separation undocking

2
00:00:15,509 --> 00:00:12,240
confirmed at 7 23 pm central time 8 23

3
00:00:17,029 --> 00:00:15,519
pm eastern time the soyuz tma-19

4
00:00:18,870 --> 00:00:17,039
known as olympus

5
00:00:20,470 --> 00:00:18,880
now heads back to earth within the next

6
00:00:21,269 --> 00:00:20,480
few hours

7
00:00:23,349 --> 00:00:21,279
doug

8
00:00:24,950 --> 00:00:23,359
shannon walker and fyodor yurchikhin

9
00:00:26,550 --> 00:00:24,960
about to come home after more than five

10
00:00:29,349 --> 00:00:26,560
months aboard the international space

11
00:00:30,950 --> 00:00:29,359
station we are watching the duck income

12
00:00:33,190 --> 00:00:30,960
onboard the orbiting complex one

13
00:00:35,350 --> 00:00:33,200

expedition ends another begins as

14

00:00:37,510 --> 00:00:35,360

expedition 26 gets kicked off under the

15

00:00:40,389 --> 00:00:37,520

command of scott kelly

16

00:00:49,830 --> 00:00:40,399

with flight engineers alexander kaleri

17

00:00:49,840 --> 00:00:53,270

separation fine

18

00:01:07,350 --> 00:00:54,950

and

19

00:01:11,910 --> 00:01:09,109

team here in houston reporting that uh

20

00:01:14,070 --> 00:01:11,920

all the systems on board the soyuz tma19

21

00:01:19,190 --> 00:01:14,080

are checking out everything is flying

22

00:01:24,630 --> 00:01:22,230

spacecraft is backing away at uh 0.12

23

00:01:38,950 --> 00:01:24,640

meters per second

24

00:01:43,190 --> 00:01:41,590

will last for available seconds

25

00:01:45,910 --> 00:01:43,200

that will increase the rate of the soyuz

26

00:01:47,590 --> 00:01:45,920
at 0.53 meters per second as it begins

27

00:01:57,270 --> 00:01:47,600
to leave the vicinity of the

28

00:02:02,389 --> 00:02:00,389
18 the command is issued the headlight

29

00:02:11,190 --> 00:02:02,399
is off

30

00:02:11,200 --> 00:02:33,270
so

31

00:02:33,280 --> 00:02:37,830
foreign

32

00:02:37,840 --> 00:02:59,589
continuous smooth separation

33

00:02:59,599 --> 00:03:10,390
yes and please monitor

34

00:03:14,470 --> 00:03:12,229
the separation burn is underway now as

35

00:03:16,869 --> 00:03:14,480
we watch olympus begin to back away from

36

00:03:18,630 --> 00:03:16,879
the international space station

37

00:03:22,149 --> 00:03:18,640
and

38

00:03:26,470 --> 00:03:22,159

continue separation

39

00:03:30,550 --> 00:03:28,470

exactly the team now confirming that the

40

00:03:34,390 --> 00:03:30,560

separation burn is complete once again

41

00:03:40,949 --> 00:03:36,390

the vehicle now backing away at half a

42

00:04:04,229 --> 00:03:43,910

the pressure descent module

43

00:04:08,789 --> 00:04:06,390

as the soyuz continues to back away down

44

00:04:10,470 --> 00:04:08,799

below at an altitude of 220 miles is

45

00:04:11,990 --> 00:04:10,480

parts of mongolia

46

00:04:13,350 --> 00:04:12,000

china

47

00:04:36,310 --> 00:04:13,360

soon we'll be crossing over parts of the

48

00:04:36,320 --> 00:05:07,510

zero zero

49

00:05:30,150 --> 00:05:12,390

settings

50

00:05:33,189 --> 00:05:31,909

they team here in houston now confirming

51
00:05:35,189 --> 00:05:33,199
that the russian segment of the

52
00:05:37,270 --> 00:05:35,199
international space station has resumed

53
00:05:44,150 --> 00:05:37,280
control

54
00:05:48,950 --> 00:05:46,150
you're getting a good view of the entire

55
00:05:51,990 --> 00:05:48,960
massive orbiting complex now as olympus

56
00:05:55,189 --> 00:05:52,000
continues to back away

57
00:05:57,270 --> 00:05:55,199
you can see the progress 39 cargo craft

58
00:05:59,029 --> 00:05:57,280
there docked with the zvezda service

59
00:06:07,590 --> 00:05:59,039
module right there in the crosshairs on

60
00:06:10,790 --> 00:06:09,029
down there at the lower right hand

61
00:06:13,110 --> 00:06:10,800
corner is the u.s segment including the

62
00:06:15,029 --> 00:06:13,120
kibo laboratory and the columbus

63
00:06:16,230 --> 00:06:15,039

module as well as the harmony and

64

00:06:21,830 --> 00:06:16,240

destiny

65

00:06:26,710 --> 00:06:24,870

once again fyodor yurchikhin

66

00:06:28,390 --> 00:06:26,720

formerly an expedition 25 flight

67

00:06:29,830 --> 00:06:28,400

engineer serving as the commander of the

68

00:06:32,830 --> 00:06:29,840

soyuz this evening just like he did

69

00:06:36,390 --> 00:06:32,840

whenever they launched back in

70

00:06:37,830 --> 00:06:36,400

june the soyuz will back away and fly

71

00:06:39,510 --> 00:06:37,840

underneath the international space

72

00:06:40,550 --> 00:06:39,520

station as it continues to open up the

73

00:07:10,309 --> 00:06:40,560

distance

74

00:07:14,230 --> 00:07:12,390

you can clearly see the three segments

75

00:07:16,790 --> 00:07:14,240

of the soyuz spacecraft here in this

76

00:07:19,270 --> 00:07:16,800

view the bottom white part that is the

77

00:07:21,029 --> 00:07:19,280

propulsion module

78

00:07:23,189 --> 00:07:21,039

in the middle is the descent module that

79

00:07:24,390 --> 00:07:23,199

is the piece that contains the crew

80

00:07:25,589 --> 00:07:24,400

right now

81

00:07:27,350 --> 00:07:25,599

that is the part that will come back

82

00:07:29,110 --> 00:07:27,360

home and land in kazakhstan here in just

83

00:07:36,550 --> 00:07:29,120

a few hours at the very top is the

84

00:07:41,749 --> 00:07:38,710

this olympus soyuz will conduct its

85

00:07:43,510 --> 00:07:41,759

deorbit burn tonight at 9 55 pm central

86

00:07:45,510 --> 00:07:43,520

time

87

00:07:47,110 --> 00:07:45,520

it will last for about four minutes

88

00:07:49,270 --> 00:07:47,120

and then those three modules that you

89

00:07:50,950 --> 00:07:49,280

see there will separate

90

00:07:52,629 --> 00:07:50,960

at 10 20

91

00:07:53,909 --> 00:07:52,639

right as the spacecraft begins to fill

92

00:08:37,589 --> 00:07:53,919

the first effects of the earth's

93

00:08:37,599 --> 00:08:51,590

operations

94

00:08:51,600 --> 00:08:58,310

and we'll just wait

95

00:08:58,320 --> 00:09:16,790

and i think we have reported everything

96

00:09:16,800 --> 00:09:38,230

telemetry

97

00:09:41,990 --> 00:09:40,310

as we continue to watch this soyuz back

98

00:09:45,829 --> 00:09:42,000

away from the international space

99

00:09:48,870 --> 00:09:45,839

station down below is the pacific ocean

100

00:09:51,750 --> 00:09:48,880

both of these spacecraft are beginning

101
00:09:53,350 --> 00:09:51,760
a south easterly orbit over the pacific

102
00:10:16,230 --> 00:09:53,360
they're just to the south of the bering

103
00:10:16,240 --> 00:10:23,269
i see that you took care of their power

104
00:10:57,350 --> 00:10:25,190
please

105
00:10:57,360 --> 00:11:12,230
and the activation

106
00:11:12,240 --> 00:12:23,110
in order

107
00:12:50,230 --> 00:12:25,269
the rest was inaudible

108
00:12:50,240 --> 00:12:56,069
so most options

109
00:12:56,079 --> 00:13:09,590
copy

110
00:13:09,600 --> 00:13:32,870
uh

111
00:13:37,829 --> 00:13:35,110
is the next command activation of

112
00:14:04,069 --> 00:13:37,839
accelerometer

113
00:14:04,079 --> 00:14:42,829

here

114

00:14:48,150 --> 00:14:45,910

yes been reconfigured

115

00:14:49,509 --> 00:14:48,160

and the congratulations on the the

116

00:14:50,790 --> 00:14:49,519

successful

117

00:14:52,870 --> 00:14:50,800

undocking

118

00:14:55,269 --> 00:14:52,880

uh i understand that the emoji

119

00:15:10,829 --> 00:14:55,279

monitoring everything is uh okay yes we

120

00:15:15,430 --> 00:15:12,790

is complete

121

00:15:18,150 --> 00:15:15,440

yes and the step four and the four

122

00:15:22,310 --> 00:15:18,160

decimal two have been accomplished okay

123

00:15:24,870 --> 00:15:22,320

and the communication is stable

124

00:15:37,829 --> 00:15:24,880

and you have a goal to continue working

125

00:15:43,670 --> 00:15:40,550

the soyuz tma19 known as olympus

126

00:15:45,430 --> 00:15:43,680

continuing to increase the distance

127

00:15:48,710 --> 00:15:45,440

between itself and the international

128

00:15:53,829 --> 00:15:50,710

remaining onboard the orbiting complex

129

00:15:56,230 --> 00:15:53,839

is now what is known as expedition 26.

130

00:15:57,749 --> 00:15:56,240

under the command of scott kelly

131

00:15:59,829 --> 00:15:57,759

the two flight engineers alexander

132

00:16:01,990 --> 00:15:59,839

kaleri and alex grapochka

133

00:16:04,230 --> 00:16:02,000

these three have a chance to actually

134

00:16:06,629 --> 00:16:04,240

witness tonight's reentry of the soyuz

135

00:16:09,110 --> 00:16:06,639

tma19 the team here in houston has sent

136

00:16:10,629 --> 00:16:09,120

up instructions on how to view it there

137

00:16:13,269 --> 00:16:10,639

is a small chance they could actually

138

00:16:23,749 --> 00:16:13,279

see the plasma trail as the soyuz begins

139

00:16:28,949 --> 00:16:25,829

the orbit burn of olympus will be

140

00:16:30,470 --> 00:16:28,959

conducted beginning at 10 55 pm central

141

00:16:33,990 --> 00:16:30,480

time tonight it will be a four-minute

142

00:16:44,550 --> 00:16:35,670

and then our landing is scheduled for 10

143

00:16:57,110 --> 00:16:45,350

and

144

00:16:57,120 --> 00:16:59,829

copy that

145

00:17:05,189 --> 00:17:01,749

so this soyuz will continue to open up

146

00:17:07,429 --> 00:17:05,199

the distance between the complex

147

00:17:08,870 --> 00:17:07,439

and the spacecraft

148

00:17:11,750 --> 00:17:08,880

the next major event will be that the

149

00:17:15,429 --> 00:17:12,829

it will be a

150

00:17:19,189 --> 00:17:15,439

115.2 meter per second burn once again

151

00:17:21,750 --> 00:17:19,199

it will begin at 9 55 pm central time

152

00:17:23,829 --> 00:17:21,760

the burn will be complete at 9 59 pm

153

00:17:26,069 --> 00:17:23,839

central time

154

00:17:30,470 --> 00:17:26,079

the actual separation of the three soyuz

155

00:17:31,669 --> 00:17:30,480

modules will occur at 10 20 pm central

156

00:17:33,990 --> 00:17:31,679

and the crew will begin to feel the

157

00:17:37,909 --> 00:17:34,000

first effects of the earth's atmosphere

158

00:17:43,510 --> 00:17:40,230

the parachutes will begin to open at 10

159

00:17:47,270 --> 00:17:45,190

and then just a few minutes later at 10

160

00:17:48,150 --> 00:17:47,280

46 that is when the soyuz will touch

161

00:17:50,470 --> 00:17:48,160

down

162

00:18:16,230 --> 00:17:50,480

in the northern landing zone there in

163

00:18:33,830 --> 00:18:18,390

is in a closed position okay thank you

164

00:18:33,840 --> 00:19:09,590

so

165

00:19:09,600 --> 00:19:28,789

what are you doing

166

00:19:33,110 --> 00:19:30,789

both the soyuz and the international

167

00:19:36,230 --> 00:19:33,120

space station continuing to pass to the

168

00:19:39,029 --> 00:19:36,240

southeast over the pacific ocean

169

00:19:40,950 --> 00:19:39,039

they are 221 miles above the surface of

170

00:19:43,110 --> 00:19:40,960

the earth right now

171

00:20:25,270 --> 00:19:43,120

they're about to pass just uh to the

172

00:20:31,190 --> 00:20:28,549

at the time of their landing

173

00:20:35,310 --> 00:20:31,200

wheelock walker and yurchikhin will have

174

00:20:37,270 --> 00:20:35,320

spent 163 days in space on this trip

175

00:20:38,950 --> 00:20:37,280

161 of them were aboard the

176
00:20:47,430 --> 00:20:38,960
international space station they were

177
00:20:52,470 --> 00:20:49,909
they celebrated

178
00:20:54,149 --> 00:20:52,480
a uh very important anniversary while

179
00:20:56,070 --> 00:20:54,159
they were on board and that is the 10th

180
00:20:57,190 --> 00:20:56,080
anniversary of continuous human life and

181
00:21:00,310 --> 00:20:57,200
work

182
00:21:04,149 --> 00:21:00,320
on board the space station itself

183
00:21:10,549 --> 00:21:06,789
i worked on more than 120 experiments on

184
00:21:15,029 --> 00:21:13,029
your chicken now has 371 total days in

185
00:21:18,310 --> 00:21:15,039
space throughout his entire career

186
00:21:21,669 --> 00:21:18,320
wheelock has 178 days

187
00:21:23,270 --> 00:21:21,679
on this trip as well as sts-120

188
00:21:24,950 --> 00:21:23,280

which is a shuttle mission on board

189

00:21:26,630 --> 00:21:24,960

shuttle discovery that he flew back in

190

00:21:29,510 --> 00:21:26,640

2007

191

00:21:37,190 --> 00:21:29,520

and shannon walker now has 163 days this

192

00:21:42,630 --> 00:21:38,630

once again this crew will be landing

193

00:21:45,430 --> 00:21:42,640

tonight at 10 46 pm central time 11 46

194

00:21:46,630 --> 00:21:45,440

pm eastern time that's going to be 10 46

195

00:21:50,710 --> 00:21:46,640

friday morning

196

00:21:54,710 --> 00:21:53,190

here shortly the search and recovery

197

00:21:56,230 --> 00:21:54,720

team that will be supporting tonight's

198

00:21:58,310 --> 00:21:56,240

landing will be heading

199

00:22:00,390 --> 00:21:58,320

toward the airfield in arclick and

200

00:22:02,070 --> 00:22:00,400

climbing aboard the russian

201

00:22:04,549 --> 00:22:02,080

search and recovery helicopters that

202

00:22:05,990 --> 00:22:04,559

will be supporting the landing

203

00:22:07,430 --> 00:22:06,000

there are some all-terrain vehicles that