1
00:00:41,560 --> 00:01:21,440
I want to be

2
00:01:46,230 --> 00:01:42,510
and dobre UTRA discovery somebody to

3
00:01:52,020 --> 00:01:46,240
attack Reapers right yeah Jeremias

4
00:02:00,860 --> 00:01:52,030
emiliya but you know show up we clear

5
00:02:07,770 --> 00:02:04,320
okay logic drivers are then two five

6
00:02:09,810 --> 00:02:07,780
zero two seven zero two seven zero you

7
00:02:13,620 --> 00:02:09,820
know all finish you subtract that over

8
00:02:16,620 --> 00:02:13,630
and then paradigm and it's good copy and

9
00:02:21,030 --> 00:02:16,630
we want to leave the RJD a1 alpha and

10
00:02:27,470 --> 00:02:21,040
the for l2 and r2 manifold driver on and

11
00:02:34,860 --> 00:02:30,510
wait let me except that I can say I want

12
00:02:39,180 --> 00:02:34,870
again okay the RJD a1 alpha L 2 R 2

13
00:02:45,680 --> 00:02:39,190

manifold driver remains on and that's uh

14
00:02:55,980 --> 00:02:45,690
no 15 oh and record affirmative

15
00:02:55,990 --> 00:03:00,460
and Rex

16
00:03:07,120 --> 00:03:03,850
yes sir I noticed in the morning

17
00:03:12,060 --> 00:03:07,130
messages that 400-feet is the plan is

18
00:03:26,650 --> 00:03:19,090
standby wax discovery Houston for wax

19
00:03:28,930 --> 00:03:26,660
with some words on rendezvous okay just

20
00:03:31,750 --> 00:03:28,940
like so the situation at this time is

21
00:03:34,540 --> 00:03:31,760
that no final decision has been made on

22
00:03:36,730 --> 00:03:34,550
the rendezvous whether we stick with the

23
00:03:39,820 --> 00:03:36,740
original plan or do the 400 foot fly

24
00:03:41,800 --> 00:03:39,830
around we're protecting both options at

25
00:03:45,580 --> 00:03:41,810
this point there will be a final

26
00:03:48,490 --> 00:03:45,590
management team meeting in about five

27
00:03:51,520 --> 00:03:48,500
hours and they'll make a final decision

28
00:03:54,910 --> 00:03:51,530
at that point we are going to be tipping

29
00:03:57,490 --> 00:03:54,920
up deltas or for a 400 foot fly around

30
00:04:08,540 --> 00:03:57,500
in the execute package so you'll be

31
00:04:15,530 --> 00:04:13,130
okay well good luck and I hope it turns

32
00:04:18,650 --> 00:04:15,540
out favorable for me if it doesn't we're

33
00:04:21,130 --> 00:04:18,660
happy and they can make the decision on

34
00:04:24,080 --> 00:04:21,140
the V bar if they want or ready to go

35
00:04:26,960 --> 00:04:24,090
okay that's good to know X and we'll be

36
00:04:34,280 --> 00:04:26,970
passing up during this shift the

37
00:04:35,930 --> 00:04:34,290
preliminary burn pads as you know we're

38
00:04:38,750 --> 00:04:35,940

across the Terminator we get a good idea

39
00:04:41,540 --> 00:04:38,760
of or at least the lighting is optimum

40
00:04:46,190 --> 00:04:41,550
for checking out the leak and just to

41
00:04:48,320 --> 00:04:46,200
let you know what we see that's slightly

42
00:04:50,960 --> 00:04:48,330
encouraging maybe is that with the

43
00:04:53,420 --> 00:04:50,970
manifold unpressurized the particles

44
00:04:56,150 --> 00:04:53,430
that come out or Ray slow in their

45
00:05:00,140 --> 00:04:56,160
relative rates it's not like days gone

46
00:05:05,900 --> 00:05:00,150
by and when it would pulse and send that

47
00:05:11,180 --> 00:05:05,910
at a stream of particles okay we

48
00:05:18,370 --> 00:05:11,190
appreciate that the space had module

49
00:05:25,390 --> 00:05:21,390
as an extension to the mid-deck of the

50
00:05:27,220 --> 00:05:25,400
space shuttle allowing experiments to be

51
00:05:29,020 --> 00:05:27,230
stowed along in the mid-deck lockers

52
00:05:32,050 --> 00:05:29,030
seen on the right-hand side of this

53
00:05:35,190 --> 00:05:32,060
television view onboard space had before

54
00:05:37,660 --> 00:05:35,200
this flight or 20 different experiments

55
00:07:18,059 --> 00:05:37,670
that have been operating up for the past

56
00:07:23,010 --> 00:07:19,709
good morning from the flight deck of

57
00:07:24,839 --> 00:07:23,020
discovery we're in preparations final

58
00:07:26,579 --> 00:07:24,849
preparations for our rendezvous with Mir

59
00:07:30,299 --> 00:07:26,589
which will occur in a couple hours we'll

60
00:07:31,739 --> 00:07:30,309
initiate the final portion and then to

61
00:07:34,049 --> 00:07:31,749
the Technosphere in a couple of hours I

62
00:07:35,459 --> 00:07:34,059
thought I'd walk around the copper float

63
00:07:37,320 --> 00:07:35,469

around the cockpit and show you a little

64
00:07:41,459 --> 00:07:37,330
bit about what we'll be doing in the

65
00:07:42,959 --> 00:07:41,469
next four hours both on Eileen and I

66
00:07:45,869 --> 00:07:42,969
will be up in the forward part of the

67
00:07:49,170 --> 00:07:45,879
sleigh deck in our seats for the first

68
00:07:51,269 --> 00:07:49,180
part of the rendezvous and let me step

69
00:07:52,559 --> 00:07:51,279
back just a second the very first

70
00:07:55,559 --> 00:07:52,569
maneuver that we accomplished for the

71
00:07:58,079 --> 00:07:55,569
rendezvous occurred and watch we waited

72
00:08:00,629 --> 00:07:58,089
until the launch pad was in the plane of

73
00:08:01,350 --> 00:08:00,639
the mirror and then we quickly lost into

74
00:08:03,510 --> 00:08:01,360
that plane

75
00:08:05,369 --> 00:08:03,520
ever since launch we've been doing a

76
00:08:06,989 --> 00:08:05,379
couple of burns to optimize the

77
00:08:09,179 --> 00:08:06,999
trajectory in preparation for the

78
00:08:10,799 --> 00:08:09,189
rendezvous when we get into the final

79
00:08:13,019 --> 00:08:10,809
portion of the rendezvous timeline here

80
00:08:16,529 --> 00:08:13,029
in an hour - Eileen and I will both be

81
00:08:18,389 --> 00:08:16,539
in our forward flight deck seats most of

82
00:08:20,549 --> 00:08:18,399
the burns that we accomplished at that

83
00:08:21,779 --> 00:08:20,559
point will be targeted by the ground or

84
00:08:24,119 --> 00:08:21,789
I guess all of them will be targeted by

85
00:08:26,399 --> 00:08:24,129
the ground it's all done automatically

86
00:08:28,829 --> 00:08:26,409
by computers we just verify the data and

87
00:08:32,610 --> 00:08:28,839
enter it into the keyboards and then

88
00:08:33,990 --> 00:08:32,620

next to keep the burn as we get into the

89
00:08:38,370 --> 00:08:34,000
middle portion of the rendezvous

90
00:08:40,050 --> 00:08:38,380
it becomes ground targeted we have

91
00:08:41,730 --> 00:08:40,060
onboard steering but it's a manually

92
00:08:44,639 --> 00:08:41,740
flown burn will actually control the

93
00:08:47,129 --> 00:08:44,649
burn manually via that ground targeting

94
00:08:49,079 --> 00:08:47,139
eventually we'd go to onboard targeting

95
00:08:51,480 --> 00:08:49,089
where the sensors onboard the vehicle

96
00:08:56,460 --> 00:08:51,490
are a little bit more accurate than the

97
00:08:57,960 --> 00:08:56,470
ground tracking solution and so we do

98
00:08:59,550 --> 00:08:57,970
that mainly up here in the front part of

99
00:09:05,530 --> 00:08:59,560
the flight deck as we get into the final

100
00:09:10,430 --> 00:09:07,970
and we'll perform the last couple of

101
00:09:19,800 --> 00:09:10,440
burns before getting into proximity

102
00:09:25,230 --> 00:09:22,800
I will be looking at the overhead

103
00:09:26,610 --> 00:09:25,240
windows facing backwards in the vehicle

104
00:09:28,230 --> 00:09:26,620
but of course in space everything is

105
00:09:31,050 --> 00:09:28,240
relative so it doesn't matter we have a

106
00:09:33,750 --> 00:09:31,060
set of controls back here and we can fly

107
00:09:36,090 --> 00:09:33,760
translations of our vehicle with this

108
00:09:37,560 --> 00:09:36,100
hand controller and rotations from this

109
00:09:42,780 --> 00:09:37,570
hand controller all the other rotations

110
00:09:44,760 --> 00:09:42,790
are typically all done automatically we

111
00:09:47,910 --> 00:09:44,770
will acquire visual sight of the MIR at

112
00:09:51,240 --> 00:09:47,920
this overhead window and I have a co-op

113
00:09:52,800 --> 00:09:51,250

site or a hard mounted manual sight in

114
00:09:54,540 --> 00:09:52,810
the overhead window when all else fails

115
00:09:57,090 --> 00:09:54,550
mike is gonna tell you a little bit

116
00:09:59,430 --> 00:09:57,100
about his magic devices in his ranging

117
00:10:02,400 --> 00:09:59,440
sensors when all else fails if they

118
00:10:04,200 --> 00:10:02,410
start acting funny or the radar starts

119
00:10:07,290 --> 00:10:04,210
walking around on the air giving us bad

120
00:10:09,180 --> 00:10:07,300
navigation we always have the old iron

121
00:10:11,160 --> 00:10:09,190
sight at the South window which never

122
00:10:12,570 --> 00:10:11,170
moves and there's no software and so

123
00:10:16,980 --> 00:10:12,580
it's a reliable piece of gear and then

124
00:10:18,720 --> 00:10:16,990
we just fly visually as we paint a lap

125
00:10:19,530 --> 00:10:18,730
around over to the port side of the

126
00:10:21,510 --> 00:10:19,540
vehicle

127
00:10:23,280 --> 00:10:21,520
I'll take the camera and I'll off of the

128
00:10:29,040 --> 00:10:23,290
Mike to Mike and he'll tell you a little

129
00:10:31,560 --> 00:10:29,050
bit about his magic senses and Houston

130
00:10:32,880 --> 00:10:31,570
while Jim is over there on the starboard

131
00:10:37,380 --> 00:10:32,890
side looking out over the overhead

132
00:10:38,880 --> 00:10:37,390
window out that way basically Adam and

133
00:10:42,600 --> 00:10:38,890
myself and Eileen will be on the flight

134
00:10:44,550 --> 00:10:42,610
deck supporting him and using the

135
00:10:47,250 --> 00:10:44,560
rendezvous tools these are computers

136
00:10:51,660 --> 00:10:47,260
that we have been out specifically that

137
00:10:54,420 --> 00:10:51,670
will allow us to port the Raju yeah

138
00:10:55,829 --> 00:10:54,430

we'll have to actually displays from our

139
00:10:58,410 --> 00:10:55,839
different sensors that are in the tail

140
00:11:02,340 --> 00:10:58,420
of day I actually have a handheld laser

141
00:11:16,730 --> 00:11:02,350
also shoot out of the window and I will

142
00:11:20,510 --> 00:11:19,220
and this man's our laser is really no

143
00:11:22,720 --> 00:11:20,520
different from anything that the police

144
00:11:25,880 --> 00:11:22,730
would use to do a traffic - traffic

145
00:11:27,980 --> 00:11:25,890
patrol monitoring and we can basically

146
00:11:29,540 --> 00:11:27,990
pointed out of the window and pull the

147
00:11:31,460 --> 00:11:29,550
trigger and I get a readout on the back

148
00:11:33,980 --> 00:11:31,470
of it as to how far away the mirror will

149
00:11:34,280 --> 00:11:33,990
be and also how fast Jim is closing on

150
00:11:40,130 --> 00:11:34,290
it

151
00:11:42,380 --> 00:11:40,140
actually be displayed back here on these

152
00:11:44,510 --> 00:11:42,390
computers and I can take those arrange

153
00:11:46,370 --> 00:11:44,520
marks and put them into the computer and

154
00:11:50,150 --> 00:11:46,380
get an idea as to how our trajectory

155
00:11:52,670 --> 00:11:50,160
towards the mirror is progressing and we

156
00:11:55,820 --> 00:11:52,680
also have a essential in the pair of a

157
00:11:57,800 --> 00:11:55,830
that is called the trajectory control

158
00:12:00,440 --> 00:11:57,810
sensor and it's also a laser driven

159
00:12:03,260 --> 00:12:00,450
system and it will be scanning for the

160
00:12:04,910 --> 00:12:03,270
veer from the bay and I will be

161
00:12:07,280 --> 00:12:04,920
displaying that data on these computers

162
00:12:10,130 --> 00:12:07,290
also and Jim will use those to control

163
00:12:21,560 --> 00:12:10,140

his approach in the final stages as we

164
00:12:25,940 --> 00:12:23,990
said he went to clubs will be right

165
00:12:27,710 --> 00:12:25,950
behind me and he will be probably doing

166
00:12:29,780 --> 00:12:27,720
most of the philosophy on the flight

167
00:12:32,860 --> 00:12:29,790
deck we have a whole array of cameras

168
00:12:35,330 --> 00:12:32,870
behind Jim and also we have down here

169
00:12:38,510 --> 00:12:35,340
towards the base of the floor north of

170
00:12:40,910 --> 00:12:38,520
my deck we have the Lumiere VHF radio

171
00:12:43,040 --> 00:12:40,920
and this is a simple VHF system that

172
00:12:45,680 --> 00:12:43,050
ties both the Mission Control Center and

173
00:12:49,010 --> 00:12:45,690
the flight deck here on the discovery

174
00:12:51,080 --> 00:12:49,020
and also the MIR space craft together it

175
00:12:53,630 --> 00:12:51,090
allows us to talk to the Amir cosmonauts

176
00:12:55,190 --> 00:12:53,640
and they also to us and invited me will

177
00:12:56,780 --> 00:12:55,200
be our chief interface on that radio

178
00:13:04,550 --> 00:12:56,790
although I do think that Jim will

179
00:13:06,290 --> 00:13:04,560
probably be speaking on it also must

180
00:13:09,800 --> 00:13:06,300
we've made our closest approach to Mir

181
00:13:12,560 --> 00:13:09,810
we are going to work that way to at

182
00:13:16,910 --> 00:13:12,570
least 450 feet and then start a slow

183
00:13:18,740 --> 00:13:16,920
climb up around near high up above it

184
00:13:20,750 --> 00:13:18,750
and while we're doing that we will see

185
00:13:23,210 --> 00:13:20,760
Bob he knows a point is the whole time

186
00:13:26,450 --> 00:13:23,220
towards the near spacecraft and we'll be

187
00:13:29,840 --> 00:13:26,460
doing this at 400 feet this will take

188
00:13:33,020 --> 00:13:29,850

about 45 minutes to do one full orbit or

189
00:13:35,900 --> 00:13:33,030
one full circle around there and during

190
00:13:38,480 --> 00:13:35,910
one orbit and during this time we'll be

191
00:13:40,850 --> 00:13:38,490
running a V IMAX camera system in the

192
00:13:42,740 --> 00:13:40,860
payload Bay taking photographs of the

193
00:13:45,760 --> 00:13:42,750
mayor at different orientations

194
00:13:48,740 --> 00:13:45,770
we'll also use a lot of Hasselblad and

195
00:13:50,360 --> 00:13:48,750
16-millimeter movie we hope to see some

196
00:13:53,560 --> 00:13:50,370
very spectacular shots as we go through

197
00:13:58,220 --> 00:13:55,640
this is all done as you know in

198
00:13:59,900 --> 00:13:58,230
preparation for STS 71 which will occur

199
00:14:02,450 --> 00:13:59,910
later on in the year the first docking

200
00:14:04,970 --> 00:14:02,460
flight that hoot Gibson will will fly

201
00:14:07,490 --> 00:14:04,980
what we hope to accomplish today is an

202
00:14:09,190 --> 00:14:07,500
evaluation of the ranging sensors in

203
00:14:11,650 --> 00:14:09,200
evaluation of the handling qualities

204
00:14:15,320 --> 00:14:11,660
evaluation of the procedures used and

205
00:14:16,940 --> 00:14:15,330
interfaces between our two countries in

206
00:14:19,310 --> 00:14:16,950
preparation for those backing flights

207
00:14:22,130 --> 00:14:19,320
that will come as we close out this

208
00:15:08,830 --> 00:14:22,140
decade and from the flight deck of

209
00:15:13,750 --> 00:15:10,870
this is Mission Control Houston we

210
00:15:16,590 --> 00:15:13,760
continue to receive a television image

211
00:15:22,030 --> 00:15:16,600
from Discovery as that discovery passes

212
00:15:24,340 --> 00:15:22,040
to the west of Australia over the MIR

213
00:15:28,410 --> 00:15:24,350

space station currently lying less than

214
00:15:32,140 --> 00:15:28,420
200 nautical miles ahead Mir is the

215
00:15:34,570 --> 00:15:32,150
steady bright light located in the upper

216
00:15:37,930 --> 00:15:34,580
half of upper center of the television

217
00:15:40,840 --> 00:15:37,940
image discovery just moving into sunset

218
00:15:45,340 --> 00:15:40,850
also visible in the image are pieces of

219
00:15:50,080 --> 00:15:45,350
ice and fuel that is leaked from

220
00:15:51,880 --> 00:15:50,090
steering jets and also other such items

221
00:15:54,720 --> 00:15:51,890
that remain with the shuttle as it

222
00:15:57,700 --> 00:15:54,730
circles in orbit and are very visible

223
00:16:02,760 --> 00:15:57,710
during at times of sunrise and sunset

224
00:16:02,770 --> 00:16:16,639
scouring good config go for the burn

225
00:16:16,649 --> 00:16:27,860
I should go for the bird

226
00:16:41,760 --> 00:16:38,150
discovery for wanks kaeleen we have been

227
00:16:44,190 --> 00:16:41,770
watching on the flight deck and we have

228
00:16:46,970 --> 00:16:44,200
been looking at your smiles so some of

229
00:16:50,550 --> 00:16:46,980
this information may have gotten to you

230
00:16:56,570 --> 00:16:50,560
by another means but you are going to

231
00:17:02,220 --> 00:17:00,210
thank you very much story and everybody

232
00:17:03,500 --> 00:17:02,230
who worked the issue again thank you

233
00:17:06,480 --> 00:17:03,510
very much

234
00:17:09,689 --> 00:17:06,490
you're welcome and thank you for all you

235
00:17:15,679 --> 00:17:09,699
have done and the go to 10 meters is

236
00:17:23,760 --> 00:17:18,140
yes sir

237
00:17:29,100 --> 00:17:23,770
there right RCS manifold be closed and

238
00:17:32,870 --> 00:17:29,110

not leaking prior to 300 meters it we

239
00:17:36,090 --> 00:17:32,880
will approach no closer than 10 meters

240
00:17:39,120 --> 00:17:36,100
with any further loss of Losey

241
00:17:43,440 --> 00:17:39,130
redundancy you can't open up that

242
00:17:46,320 --> 00:17:43,450
manifold to regain Losey capability if

243
00:17:59,430 --> 00:17:46,330
it's required and then back out to 400

244
00:18:01,230 --> 00:17:59,440
feet and hold this test was originally

245
00:18:03,450 --> 00:18:01,240
scheduled for a couple of hours from now

246
00:18:06,240 --> 00:18:03,460
but to due to the fact that so we

247
00:18:09,650 --> 00:18:06,250
acquired our VHS communication link some

248
00:18:12,990 --> 00:18:09,660
much earlier than we anticipated the

249
00:18:14,910 --> 00:18:13,000
test was moved up to a help ease some of

250
00:18:29,730 --> 00:18:14,920
the timeline later on as we get down to

251
00:18:39,510 --> 00:18:32,950
but local stock weight categories Niram

252
00:18:39,520 --> 00:18:56,470
Ashoka Chakra quinium

253
00:18:56,480 --> 00:18:59,800
your fellowship

254
00:18:59,810 --> 00:19:10,420
more at the recoverability tornado

255
00:19:10,430 --> 00:19:26,520
got em - fantastic schedule at them yeah

256
00:19:42,520 --> 00:19:30,190
continue another mysterious music order

257
00:19:56,800 --> 00:19:42,530
yeah is it supposed to shock me as a

258
00:20:04,420 --> 00:19:59,470
but here Marciano's was always Passat

259
00:20:05,920 --> 00:20:04,430
was to university culture is similar to

260
00:20:15,980 --> 00:20:05,930
this video to be driven at recovering

261
00:20:26,750 --> 00:20:19,580
for cockatrice prefer to cancel our a

262
00:21:06,169 --> 00:20:26,760
supreme eccentric rama circus major dr.

263
00:21:14,839 --> 00:21:09,739

I would be the first of two mobiles will

264
00:21:56,899 --> 00:21:14,849
give me positively Requena Mahalo

265
00:22:02,870 --> 00:21:59,930
sponge at least my car completed its

266
00:22:04,370 --> 00:22:02,880
value Rudy my boy whatever legend the

267
00:22:07,639 --> 00:22:04,380
other videos I'm a talker cappella

268
00:23:32,049 --> 00:22:07,649
creaminess yes cuz I was mimicking about

269
00:23:36,999 --> 00:23:34,810
that might be part issue the

270
00:23:39,669 --> 00:23:37,009
will come through way just not in the

271
00:23:43,869 --> 00:23:39,679
matter Department issue the Luther

272
00:23:45,399 --> 00:23:43,879
google eminent Reposado future Liam I'm

273
00:23:46,839 --> 00:23:45,409
will make propriety stop them with

274
00:23:57,009 --> 00:23:46,849
shuttle what William another birth

275
00:24:00,969 --> 00:23:57,019
chained with HP's yellow yes specially

276
00:24:10,670 --> 00:24:00,979
the menu connector vamos a shuttlecock

277
00:24:35,570 --> 00:24:13,040
yeah mr. punched a discursive away on

278
00:24:42,540 --> 00:24:38,400
let's look at them first we're not

279
00:24:44,040 --> 00:24:42,550
yes Vietnam Liam Willingham a policeman

280
00:24:57,950 --> 00:24:44,050
had this man

281
00:24:57,960 --> 00:25:22,230
Oh leave the high acidity matter Katara

282
00:25:31,600 --> 00:25:29,110
discovery for wakes you have a go for

283
00:25:34,840 --> 00:25:31,610
the approach to 10 meters starting that

284
00:25:37,330 --> 00:25:34,850
on time to arrive at a closest approach

285
00:25:44,050 --> 00:25:37,340
at 13 hours 58 minutes

286
00:25:48,910 --> 00:25:44,060
I understand ago for the approach thank

287
00:25:50,920 --> 00:25:48,920
you will my discovery and mirror are now

288
00:25:53,050 --> 00:25:50,930

crossing what is known as the Terminator

289
00:25:58,840 --> 00:25:53,060
or the point where the daylight turns to

290
00:26:01,810 --> 00:25:58,850
darkness the two vehicles will be flying

291
00:26:04,540 --> 00:26:01,820
within the dark with just lights running

292
00:26:07,240 --> 00:26:04,550
lights on them for the next several

293
00:26:09,910 --> 00:26:07,250
minutes as the distance between the two

294
00:26:11,470 --> 00:26:09,920
spacecraft slowly increases by the time

295
00:26:14,440 --> 00:26:11,480
we reach our close approach point

296
00:26:20,830 --> 00:26:14,450
however the two spacecraft should be

297
00:26:25,240 --> 00:26:20,840
back in the daylight this is views

298
00:26:28,230 --> 00:26:25,250
onboard Space Station Mir of cosmonauts

299
00:26:31,060 --> 00:26:28,240
aboard the vehicle dr. Valarie Valarie

300
00:26:34,710 --> 00:26:31,070
Polyakov now holding the endurance

301
00:26:41,170 --> 00:26:34,720
records for time in space he's on his

302
00:26:44,920 --> 00:26:41,180
394th day in space but also in view is

303
00:26:46,780 --> 00:26:44,930
elena kondakova who was launched 126

304
00:26:49,090 --> 00:26:46,790
days ago along with a commander who's

305
00:26:58,570 --> 00:26:49,100
operating the camera alexander victor

306
00:27:01,120 --> 00:26:58,580
anko i saw that same house used once

307
00:27:03,100 --> 00:27:01,130
again out the porthole of the MIR module

308
00:27:05,770 --> 00:27:03,110
back toward space shuttle Discovery the

309
00:27:08,470 --> 00:27:05,780
two vehicles and now obviously moved

310
00:27:10,390 --> 00:27:08,480
into darkness and we should be acquiring

311
00:27:12,280 --> 00:27:10,400
a signal from discovery of the space

312
00:27:13,430 --> 00:27:12,290
station in just a few minutes as the

313
00:27:15,860 --> 00:27:13,440

discovery will move back

314
00:27:22,159 --> 00:27:15,870
it within range of its kayuu band

315
00:27:26,889 --> 00:27:22,169
antenna tracking satellite okay

316
00:27:36,919 --> 00:27:34,039
control until three accepted open even

317
00:27:38,600 --> 00:27:36,929
associate manager feelin premiere most

318
00:27:40,519 --> 00:27:38,610
people that were so many Gillikin here

319
00:27:50,180 --> 00:27:40,529
so I share this part easy money and Mary

320
00:27:54,289 --> 00:27:50,190
Lou dm7

321
00:27:56,440 --> 00:27:54,299
what did you feel valued the urine again

322
00:28:01,279 --> 00:27:56,450
I guess did you today is previous ROM

323
00:28:08,629 --> 00:28:01,289
wave banners Delta four years previous

324
00:28:11,299 --> 00:28:08,639
moment so I am here is own my cosmetics

325
00:28:19,050 --> 00:28:11,309
vigilant I'm going to double their give

326
00:28:23,350 --> 00:28:21,430
this is Mission Control Houston this

327
00:28:26,050 --> 00:28:23,360
picture of the Russian space station Mir

328
00:28:28,230 --> 00:28:26,060
is being provided to us by the low light

329
00:28:31,090 --> 00:28:28,240
level cameras onboard discovery

330
00:28:33,850 --> 00:28:31,100
physician Valery Polyakov one of the MIR

331
00:28:37,060 --> 00:28:33,860
crew members is occasionally shining a

332
00:28:39,730 --> 00:28:37,070
flashlight at the crew members to help

333
00:28:41,650 --> 00:28:39,740
with the and we're thinking maybe you

334
00:28:43,210 --> 00:28:41,660
need to pick up a little bit someone

335
00:28:45,480 --> 00:28:43,220
sending them a message from one of the

336
00:28:49,170 --> 00:28:45,490
windows of the pet of the MIR station

337
00:28:52,540 --> 00:28:49,180
the mir crew members also have asked

338
00:28:56,830 --> 00:28:52,550

veteran cosmonaut and STS 63 mission

339
00:29:04,060 --> 00:28:56,840
specialist vladimir t-top for any

340
00:29:05,950 --> 00:29:04,070
information about how to mir live in

341
00:29:09,100 --> 00:29:05,960
this particular camera view we came to

342
00:29:11,830 --> 00:29:09,110
see actually see three of the mirror

343
00:29:14,770 --> 00:29:11,840
modules as and a Soyuz spacecraft

344
00:29:17,260 --> 00:29:14,780
attached to the MIR station at the top

345
00:29:20,740 --> 00:29:17,270
of the picture the smallest module is

346
00:29:23,860 --> 00:29:20,750
the Kevon one module in the center where

347
00:29:26,260 --> 00:29:23,870
the where one of the cosmonauts is using

348
00:29:29,410 --> 00:29:26,270
a flashlight to a signal the mayor crew

349
00:29:32,650 --> 00:29:29,420
is the MIR core module and looking

350
00:29:35,080 --> 00:29:32,660
directly at the orbiter is the cristal

351
00:29:37,360 --> 00:29:35,090
module at the bottom of this picture is

352
00:29:39,460 --> 00:29:37,370
one of the Soyuz capsules which the

353
00:29:46,600 --> 00:29:39,470
crewmembers used to go to and from the

354
00:29:49,480 --> 00:29:46,610
space station this is a view from one of

355
00:29:52,390 --> 00:29:49,490
the cameras inside the crew cabin of

356
00:29:56,289 --> 00:29:52,400
discovery this provides a much better

357
00:29:56,289 --> 00:29:56,299
view of the crystal module

358
00:30:04,820 --> 00:30:01,909
this presentation delivered discovery is

359
00:30:07,789 --> 00:30:04,830
now 65 feet away from the space station

360
00:30:09,770 --> 00:30:07,799
Mir that means we only have about 2:30

361
00:30:16,190 --> 00:30:09,780
or so feet to go before we reach our

362
00:30:24,230 --> 00:30:16,200
point of closest approach this

363
00:30:26,390 --> 00:30:24,240

particular picture is from mirror and

364
00:30:30,409 --> 00:30:26,400
all rendezvous activities continue to go

365
00:30:40,340 --> 00:30:30,419
very smoothly all orbiter systems are

366
00:30:42,529 --> 00:30:40,350
functioning as expected discovery and

367
00:30:45,049 --> 00:30:42,539
mirror now just south of the Kamchatka

368
00:30:47,630 --> 00:30:45,059
Peninsula and just to the east of Japan

369
00:30:50,390 --> 00:30:47,640
the two vehicles are about to start a

370
00:30:54,080 --> 00:30:50,400
south easterly sweep above the Pacific

371
00:30:57,950 --> 00:30:54,090
Ocean on mears 57th orbit of the mission

372
00:31:00,200 --> 00:30:57,960
and disc and well on Discovery's 57th

373
00:31:22,090 --> 00:31:00,210
orbit of the mission and on Mayer's 15th

374
00:31:24,830 --> 00:31:22,100
orbit of the day this is Mission Control

375
00:31:27,260 --> 00:31:24,840
Kaliningrad these views now from

376
00:31:30,470 --> 00:31:27,270
Discovery looking back toward the MIR

377
00:31:33,470 --> 00:31:30,480
Space Station one of the items to note

378
00:31:37,250 --> 00:31:33,480
of interest is there's a pair of solar

379
00:31:40,669 --> 00:31:37,260
rays of the triple set here that will be

380
00:31:44,919 --> 00:31:40,679
moved later on from the core module area

381
00:31:48,649 --> 00:31:44,929
to the cristal module those solar arrays

382
00:31:50,539 --> 00:31:48,659
fold up similar to the solar arrays on

383
00:31:53,539 --> 00:31:50,549
the Hubble Space Telescope those arrays

384
00:31:56,149 --> 00:31:53,549
will be folded up and moved by two

385
00:31:59,180 --> 00:31:56,159
cosmonauts that will conduct a spacewalk

386
00:32:01,880 --> 00:31:59,190
during the mere 18 mission which is

387
00:32:05,630 --> 00:32:01,890
scheduled for launch on March 14th that

388
00:32:09,230 --> 00:32:05,640

mission will carry USS or not dr. Norman

389
00:32:13,789 --> 00:32:09,240
thagard the other members

390
00:32:17,539 --> 00:32:13,799
of that mission again which is scheduled

391
00:32:18,830 --> 00:32:17,549
for March 14th are glad Amir Desiro who

392
00:32:21,200 --> 00:32:18,840
will be the commander of that mission

393
00:32:22,489 --> 00:32:21,210
along with Ganados trickle off who will

394
00:32:24,279 --> 00:32:22,499
be the flight engineer those two

395
00:32:27,320 --> 00:32:24,289
cosmonauts will conduct a spacewalk

396
00:32:30,289 --> 00:32:27,330
again while Norman Taggart watches over

397
00:32:33,019 --> 00:32:30,299
the systems aboard the space station Mir

398
00:32:37,730 --> 00:32:33,029
that's scheduled again for launch in

399
00:32:40,430 --> 00:32:37,740
March March 14th elinks Rondon from

400
00:32:42,440 --> 00:32:40,440
officer Joe Williams reports that we are

401
00:32:43,789 --> 00:32:42,450
right on a rendezvous profile in just

402
00:32:46,759 --> 00:32:43,799
about a minute and a half or so away

403
00:32:48,470 --> 00:32:46,769
from our point of closest approach once

404
00:32:49,940 --> 00:32:48,480
we reached that point commander Jim

405
00:32:52,730 --> 00:32:49,950
Weatherby will put the brakes on

406
00:32:54,830 --> 00:32:52,740
discovery so to speak and the orbiter

407
00:33:07,039 --> 00:32:54,840
will hold its position for about 10

408
00:33:09,259 --> 00:33:07,049
minutes before backing away as far the

409
00:33:12,409 --> 00:33:09,269
far as the discussions between the two

410
00:33:14,509 --> 00:33:12,419
vehicles go flight engineer elena

411
00:33:18,080 --> 00:33:14,519
kondakova is watching the mir approach

412
00:33:24,289 --> 00:33:18,090
from the small porthole that is at the

413
00:33:27,019 --> 00:33:24,299

top of the the view from Discovery

414
00:33:29,359 --> 00:33:27,029
that's that's a small circular dark

415
00:33:31,580 --> 00:33:29,369
spots she has asked the crew members

416
00:33:34,220 --> 00:33:31,590
from Discovery several times whether or

417
00:33:36,139 --> 00:33:34,230
not they can see her way earlier the

418
00:33:37,789 --> 00:33:36,149
rear cameras were able to pick up a

419
00:33:43,249 --> 00:33:37,799
picture of vladimir tito from the

420
00:33:47,389 --> 00:33:43,259
windows of the united menephta sukeroku

421
00:33:49,759 --> 00:33:47,399
i use for the previous person gyros are

422
00:33:57,200 --> 00:33:49,769
more planning to destroy believers who

423
00:34:03,510 --> 00:33:57,210
prefer to do what what a fantastic

424
00:34:17,879 --> 00:34:10,710
excuse me Maya 44 feet discovery is now

425
00:34:29,010 --> 00:34:17,889
about 44 feet away from here would I

426
00:34:32,490 --> 00:34:29,020
maintain this at distance copy and last

427
00:34:36,240 --> 00:34:32,500
report from Discovery the orbiter was

428
00:34:38,190 --> 00:34:36,250
about 44 feet away from near the crew

429
00:34:39,780 --> 00:34:38,200
was in the process of putting on the

430
00:34:46,349 --> 00:34:39,790
brakes and slowing the motion between

431
00:34:48,510 --> 00:34:46,359
the two spacecraft this particular view

432
00:34:51,540 --> 00:34:48,520
is from a camera in the space hab module

433
00:34:54,300 --> 00:34:51,550
this is a camera that is very near the

434
00:34:56,849 --> 00:34:54,310
position where the docking camera will

435
00:35:03,089 --> 00:34:56,859
be when Atlantis talks with mayor later

436
00:35:04,800 --> 00:35:03,099
this year the round structure in the

437
00:35:07,140 --> 00:35:04,810
center of this view is the docking port

438
00:35:09,270 --> 00:35:07,150

on the cristal module that is the

439
00:35:14,060 --> 00:35:09,280
docking port which atlantis will use

440
00:35:22,530 --> 00:35:19,650
what might fare discovery mr. rieper

441
00:35:25,620 --> 00:35:22,540
melodeon ship closer together we are

442
00:35:27,510 --> 00:35:25,630
bringing our nations closer together the

443
00:35:29,520 --> 00:35:27,520
next time we approach we will shake your

444
00:35:33,930 --> 00:35:29,530
hand and together we will lead our world

445
00:35:37,740 --> 00:35:33,940
into the next millennium can we squeeze

446
00:35:41,010 --> 00:35:37,750
leave marceca speech Ischia Karelian doc

447
00:35:45,020 --> 00:35:41,020
please please lee rossi not see whether

448
00:35:48,599 --> 00:35:45,030
you steel rods kadam we've said in CS

449
00:35:52,430 --> 00:35:48,609
with plasma through Blue Goose looky

450
00:35:55,640 --> 00:35:52,440
here mr. Freud Jung well you see a

451
00:35:58,740 --> 00:35:55,650
CCG Alethia

452
00:36:02,160 --> 00:35:58,750
procedure guru mr. Murray ridiculous man

453
00:36:06,150 --> 00:36:02,170
who AMS boo Bishop Street posse Bruce

454
00:36:09,390 --> 00:36:06,160
yes special agent Jim a blogger and

455
00:36:11,700 --> 00:36:09,400
agree with us Roberto period is here

456
00:36:12,960 --> 00:36:11,710
where would he release to us by Marriott

457
00:36:18,210 --> 00:36:12,970
Oh

458
00:36:22,470 --> 00:36:18,220
for losers we're either pelea de pelea

459
00:36:25,550 --> 00:36:22,480
de ribas Italy failure may perform a

460
00:36:33,000 --> 00:36:25,560
fantastic scare he surmised initiative

461
00:36:35,520 --> 00:36:33,010
specifically for so various people this

462
00:36:39,180 --> 00:36:35,530
is Mission Control Houston now that was

463
00:36:46,530 --> 00:36:39,190

Jim Weatherby expressing his feelings at

464
00:36:48,510 --> 00:36:46,540
this historic moment to live in response

465
00:36:52,080 --> 00:36:48,520
Alexander Victor anko the commander of

466
00:36:55,410 --> 00:36:52,090
the MIR crew has expressed his affection

467
00:36:58,530 --> 00:36:55,420
for the STS 63 crew and his pride at

468
00:37:01,920 --> 00:36:58,540
this moment in time he said that that's

469
00:37:04,050 --> 00:37:01,930
we were one and we were human and they

470
00:37:06,180 --> 00:37:04,060
were all the crew members on orbit right

471
00:37:10,890 --> 00:37:06,190
now we're involved in the greatest

472
00:37:13,260 --> 00:37:10,900
profession God could give anyone victory

473
00:37:15,599 --> 00:37:13,270
Co also has added that this moment in

474
00:37:22,589 --> 00:37:15,609
time is almost like a fairy tale it's

475
00:37:24,960 --> 00:37:22,599
almost too good to be true this

476
00:37:27,359 --> 00:37:24,970
particular view from discovery will

477
00:37:30,150 --> 00:37:27,369
provides us with the best view we may

478
00:37:32,130 --> 00:37:30,160
get of the Amir core module the

479
00:37:35,040 --> 00:37:32,140
americorps module which is the center

480
00:37:41,040 --> 00:37:35,050
module is the central portion of the

481
00:37:42,750 --> 00:37:41,050
station but it really is amazing how

482
00:37:48,980 --> 00:37:42,760
beautiful their vehicle is just simply

483
00:37:51,510 --> 00:37:48,990
beautiful it is just simply stunning I

484
00:38:00,210 --> 00:37:51,520
mean if we weren't here if I just saw a

485
00:38:04,530 --> 00:38:00,220
picture of it up to credible then we

486
00:38:06,720 --> 00:38:04,540
sure enjoyed all the video this is some

487
00:38:09,750 --> 00:38:06,730
videotape from the MIR space station

488
00:38:11,070 --> 00:38:09,760

that the cosmonauts took during our

489
00:38:14,190 --> 00:38:11,080
close approach and a rendezvous

490
00:38:15,770 --> 00:38:14,200
activities they are currently feeding

491
00:38:17,450 --> 00:38:15,780
this to the ground the

492
00:38:30,100 --> 00:38:17,460
the Mission Control Center in

493
00:38:36,800 --> 00:38:30,110
Kaliningrad discovery has started a slow

494
00:38:37,610 --> 00:38:36,810
ascent from the velocity vector the

495
00:38:46,190 --> 00:38:37,620
computer there

496
00:38:50,050 --> 00:38:46,200
our initial bill was really serious

497
00:38:57,380 --> 00:38:50,060
because what sort of oxide you in

498
00:39:02,020 --> 00:38:57,390
politics especially Jewish you should

499
00:39:09,490 --> 00:39:04,880
meanwhile we're getting live pictures

500
00:39:18,470 --> 00:39:15,520
this is physician dr. Valerio Polyakov

501
00:39:25,420 --> 00:39:18,480
he currently has the record for the most

502
00:39:25,430 --> 00:39:30,160
superstar was the magician illusionist

503
00:39:39,490 --> 00:39:36,620
no head discovery yes as the Sun came up

504
00:39:42,760 --> 00:39:39,500
they were in the maneuver of course and

505
00:39:46,880 --> 00:39:42,770
they're flying jets we're frying gets

506
00:39:48,710 --> 00:39:46,890
their arrays are moving which it is a

507
00:39:55,850 --> 00:39:48,720
little puffy goose the beautiful say

508
00:40:55,170 --> 00:39:55,860
that the great world it is a great world

509
00:41:03,070 --> 00:40:59,200
discovery is now slightly above the well

510
00:41:05,920 --> 00:41:03,080
is about 245 degrees above the velocity

511
00:41:08,620 --> 00:41:05,930
vector as it moves to the point that is

512
00:41:12,430 --> 00:41:08,630
directly above the space station Mir for

513
00:41:14,650 --> 00:41:12,440

our separation burn that separation burn

514
00:41:17,170 --> 00:41:14,660
should take place in about 3 minutes and

515
00:41:19,510 --> 00:41:17,180
15 seconds and will bring to a

516
00:41:22,300 --> 00:41:19,520
conclusion our rendezvous activities for

517
00:41:23,890 --> 00:41:22,310
today the flight control team here in

518
00:41:27,490 --> 00:41:23,900
Houston is very pleased with today's

519
00:41:28,780 --> 00:41:27,500
activities and throughout the or

520
00:41:32,020 --> 00:41:28,790
occasionally throughout the day we have

521
00:41:36,310 --> 00:41:32,030
gotten pictures of the Mission Control

522
00:41:59,260 --> 00:41:36,320
Center in Russia and there are very

523
00:42:09,580 --> 00:42:03,460
Ginger's yes Liesl - my dear here is the

524
00:42:13,660 --> 00:42:09,590
31st anniversary prize so we were sticky

525
00:42:18,640 --> 00:42:13,670
little concern is giving either physical

526
00:42:21,100 --> 00:42:18,650
or no but you're a certain you wish this

527
00:42:22,859 --> 00:42:21,110
was the way from a biggest anomalous

528
00:42:26,530 --> 00:42:22,869
Caleta closer but still in an utterance

529
00:42:29,560 --> 00:42:26,540
as the working with you would churning

530
00:42:39,160 --> 00:42:29,570
here the community and the dr. DiPaolo

531
00:42:40,770 --> 00:42:39,170
three discovery stereo eggs okay we are

532
00:42:43,840 --> 00:42:40,780
now receiving a live picture from

533
00:42:46,990 --> 00:42:43,850
Discovery's flight deck as the STS 63

534
00:42:52,390 --> 00:42:47,000
crew wraps up its rendezvous activities

535
00:42:55,420 --> 00:42:52,400
for the day in the white shirt is STS 63

536
00:42:57,760 --> 00:42:55,430
pilot Eileen Collins in the forward part

537
00:42:59,380 --> 00:42:57,770
of this view in the red shirt is Bernard

538
00:43:04,330 --> 00:42:59,390

Harris who is our payload commander and

539
00:43:21,250 --> 00:43:04,340
in the the back part of this particular

540
00:43:33,599 --> 00:43:26,109
but I lived led they appeared perfect

541
00:43:40,599 --> 00:43:33,609
Eva's decibel per octave so Lewis / yes

542
00:43:46,180 --> 00:43:40,609
utilize which I know in a public street

543
00:43:51,609 --> 00:43:46,190
good idea

544
00:43:54,400 --> 00:43:51,619
Elena nobody hated that one city yet

545
00:44:00,460 --> 00:43:54,410
that will please it directly at me

546
00:44:04,330 --> 00:44:00,470
cooler I want to say that there is very

547
00:44:12,330 --> 00:44:04,340
beautiful and it was very shiny and we

548
00:44:19,270 --> 00:44:15,820
couple of our discovery totally wreck

549
00:44:25,060 --> 00:44:19,280
illusion if I have a service free

550
00:44:30,220 --> 00:44:25,070
appropriate public education were

551
00:44:36,670 --> 00:44:30,230
terribly few water us about over Algeria

552
00:44:40,359 --> 00:44:36,680
a fever

553
00:44:51,240 --> 00:44:40,369
you are very nice and maybe someday we

554
00:45:35,560 --> 00:45:04,030
dr. Dodger to see that yes yes yes know

555
00:45:39,190 --> 00:45:35,570
what hello good afternoon

556
00:45:43,420 --> 00:45:39,200
oh good afternoon I didn't know you were

557
00:45:44,980 --> 00:45:43,430
on the line congratulations oh well

558
00:45:48,370 --> 00:45:44,990
thank you very much sir it's an honor to

559
00:45:51,280 --> 00:45:48,380
be talking to you thanks for calling I'm

560
00:45:54,370 --> 00:45:51,290
glad to do it we're all following you

561
00:45:57,339 --> 00:45:54,380
with great anticipation and we're all so

562
00:46:00,010 --> 00:45:57,349
impressed you know this really proves I

563
00:46:01,630 --> 00:46:00,020

think that Russians and Americans can

564
00:46:03,940 --> 00:46:01,640
work together and that we can make this

565
00:46:05,650 --> 00:46:03,950
International Space Station project

566
00:46:08,020 --> 00:46:05,660
successful and I can't tell you how much

567
00:46:12,400 --> 00:46:08,030
I appreciate all the work that all of

568
00:46:15,280 --> 00:46:12,410
you have done to that end well we agree

569
00:46:17,200 --> 00:46:15,290
sir it's what I kept thinking as we were

570
00:46:19,540 --> 00:46:17,210
running on Meera's it's a great world

571
00:46:21,040 --> 00:46:19,550
they have a beautiful spaceship and we

572
00:46:23,050 --> 00:46:21,050
have a beautiful spaceship built by

573
00:46:25,329 --> 00:46:23,060
Americans we met the people that built

574
00:46:27,609 --> 00:46:25,339
their spaceship they loved their space

575
00:46:31,559 --> 00:46:27,619
program we loved our space program and I

576
00:46:34,900 --> 00:46:31,569
think together will be a lot better well

577
00:46:36,430 --> 00:46:34,910
we're confident that it will as you know

578
00:46:37,990 --> 00:46:36,440
this whole mission is the number of

579
00:46:42,220 --> 00:46:38,000
first you're the first person to ever

580
00:46:46,599 --> 00:46:42,230
command our efforts to rendezvous with a

581
00:46:48,730 --> 00:46:46,609
Russian space vehicle and I know that

582
00:46:52,390 --> 00:46:48,740
Eileen Collins is the first woman ever

583
00:46:54,640 --> 00:46:52,400
to pilot a space shuttle so Eileen I

584
00:46:56,440 --> 00:46:54,650
suppose you have literally shown young

585
00:47:00,660 --> 00:46:56,450
women all across the world they can fly

586
00:47:03,250 --> 00:47:00,670
as high as their dreams will take them

587
00:47:04,130 --> 00:47:03,260
yes I like to say I think this is one of

588
00:47:07,550 --> 00:47:04,140

the greatest jobs

589
00:47:08,630 --> 00:47:07,560
world and you know for any young people

590
00:47:12,490 --> 00:47:08,640
out there if you work hard enough you

591
00:47:15,710 --> 00:47:12,500
can always always reach your dreams

592
00:47:18,380 --> 00:47:15,720
would you certainly prove that look at

593
00:47:23,030 --> 00:47:18,390
that we enjoy watching the microphone

594
00:47:24,740 --> 00:47:23,040
there I want to ask dr. Harris to pick

595
00:47:26,990 --> 00:47:24,750
it up as it flies toward him I want to

596
00:47:28,640 --> 00:47:27,000
he's going to set another milestone by

597
00:47:32,270 --> 00:47:28,650
becoming the first African American to

598
00:47:33,830 --> 00:47:32,280
walk in space so you'll be floating on

599
00:47:35,810 --> 00:47:33,840
here but be sure you heard I'm really

600
00:47:38,690 --> 00:47:35,820
looking forward to that a couple of days

601
00:47:41,140 --> 00:47:38,700
from now but I know I won't be I may be

602
00:47:43,580 --> 00:47:41,150
the first but I won't be the last

603
00:47:46,480 --> 00:47:43,590
no you won't be the last we'll have a

604
00:47:50,240 --> 00:47:46,490
lot more if we have you as an example

605
00:47:52,700 --> 00:47:50,250
I'd also like to say something to our

606
00:47:54,980 --> 00:47:52,710
Russian partner in space Vladimir Tito

607
00:47:58,270 --> 00:47:54,990
it's one of the world's most experienced

608
00:48:00,470 --> 00:47:58,280
space travelers and that he's the first

609
00:48:03,230 --> 00:48:00,480
cosmonaut to see the near from an

610
00:48:04,340 --> 00:48:03,240
American spacecraft so I'd like to give

611
00:48:11,240 --> 00:48:04,350
you a chance to say anything you'd like

612
00:48:13,160 --> 00:48:11,250
to the American people mr. Tito and good

613
00:48:20,530 --> 00:48:13,170

day mr. president thank you very much

614
00:48:24,020 --> 00:48:20,540
and I were happy I am I use them every

615
00:48:26,090 --> 00:48:24,030
possibility to have a great flight and

616
00:48:28,430 --> 00:48:26,100
right now our press conference our

617
00:48:32,630 --> 00:48:28,440
conversation listen of the four station

618
00:48:33,460 --> 00:48:32,640
Mir and crew on board is mirror sent for

619
00:48:37,240 --> 00:48:33,470
you

620
00:48:40,430 --> 00:48:37,250
great hello

621
00:48:42,050 --> 00:48:40,440
well thank you very much I want to say

622
00:48:44,540 --> 00:48:42,060
to all of you again that this is very

623
00:48:47,840 --> 00:48:44,550
exciting for us you know the vice

624
00:48:50,510 --> 00:48:47,850
president's here with me along with Dan

625
00:48:52,730 --> 00:48:50,520
Goldin and and our science advisor dr.

626
00:48:54,920 --> 00:48:52,740
Jack Givens and we have supported this

627
00:48:57,470 --> 00:48:54,930
space program so strongly and it's been

628
00:48:59,090 --> 00:48:57,480
as you know somewhat controversial in

629
00:49:01,700 --> 00:48:59,100
the United States in the past but I

630
00:49:03,470 --> 00:49:01,710
think that people all over our country

631
00:49:05,840 --> 00:49:03,480
and all over the world will be seeing

632
00:49:08,600 --> 00:49:05,850
you today and will say you know this is

633
00:49:10,250 --> 00:49:08,610
something worth doing and you you all of

634
00:49:14,180 --> 00:49:10,260
you have made us very proud I can't

635
00:49:15,950 --> 00:49:14,190
thank you enough well we thank you very

636
00:49:17,060 --> 00:49:15,960
much for your support mr. president we

637
00:49:17,790 --> 00:49:17,070
know you have done a lot of work over

638
00:49:21,120 --> 00:49:17,800

the last several years

639
00:49:22,500 --> 00:49:21,130
in getting us this far there's a lot of

640
00:49:24,210 --> 00:49:22,510
people around our country and a lot of

641
00:49:26,610 --> 00:49:24,220
people in Russia that we owe a great

642
00:49:27,990 --> 00:49:26,620
deal of thanks and of course it starts

643
00:49:30,690 --> 00:49:28,000
right at the very top so thank you very

644
00:49:31,710 --> 00:49:30,700
much for your support you're welcome and

645
00:49:34,290 --> 00:49:31,720
of course we want to say hello to

646
00:49:36,360 --> 00:49:34,300
Michael and Janice to whom we haven't

647
00:49:38,130 --> 00:49:36,370
talked we're proud of all of you have a

648
00:49:43,070 --> 00:49:38,140
wonderful time and come home safe and

649
00:49:47,430 --> 00:49:46,260
did you spank you if you saw today she

650
00:49:48,750 --> 00:49:47,440
Weatherby does a great job of flying

651
00:49:54,500 --> 00:49:48,760
this vehicle and looking forward to

652
00:50:01,230 --> 00:49:56,850
yeah it'll be a very good one I'm quite

653
00:50:03,110 --> 00:50:01,240
sure will come home to us we're proud of

654
00:52:07,099 --> 00:50:03,120
you good bye

655
00:52:12,319 --> 00:52:09,460
this is Mission Control Houston

656
00:52:15,130 --> 00:52:12,329
discovery is currently 211 nautical

657
00:52:18,559 --> 00:52:15,140
miles above South America just crossing

658
00:52:21,049 --> 00:52:18,569
at the borders of Peru Brazil and

659
00:52:27,440 --> 00:52:21,059
Bolivia as it continues on orbit number

660
00:52:31,249 --> 00:52:27,450
61 of this flight as the crew of six

661
00:52:32,660 --> 00:52:31,259
astronauts on board discovery sleeps the

662
00:52:34,519 --> 00:52:32,670
flight controllers here in the flight

663
00:52:36,349 --> 00:52:34,529

control room in Houston are continuing

664
00:52:43,309 --> 00:52:36,359
to monitor all systems on board the

665
00:52:45,370 --> 00:52:43,319
orbiter and also to take a look at the

666
00:52:47,930 --> 00:52:45,380
timeline for flight day five activities

667
00:52:52,910 --> 00:52:47,940
that will greet the crew when they awake

668
00:52:57,559 --> 00:52:52,920
at 1252 a.m. Central time to begin that

669
00:53:00,049 --> 00:52:57,569
flight day five on-orbit the crew had a

670
00:53:03,440 --> 00:53:00,059
very busy very successful and very

671
00:53:05,779 --> 00:53:03,450
historic day today a day that saw

672
00:53:10,130 --> 00:53:05,789
American and Russian spacecraft draw

673
00:53:12,460 --> 00:53:10,140
within 37 feet of one another with

674
00:53:14,569 --> 00:53:12,470
commander Jim Weatherby at the controls

675
00:53:17,210 --> 00:53:14,579
the crew of astronauts on board

676
00:53:19,729 --> 00:53:17,220
discovery intersected Mira's velocity

677
00:53:22,009 --> 00:53:19,739
vector at a distance of about 400 feet

678
00:53:24,880 --> 00:53:22,019
from that space station that occurred at

679
00:53:28,430 --> 00:53:24,890
1216 p.m. Central time today

680
00:53:30,979 --> 00:53:28,440
all told discovery spent almost two

681
00:53:32,809 --> 00:53:30,989
hours on that velocity vector that is an

682
00:53:34,309 --> 00:53:32,819
imaginary line that's drawn in the

683
00:53:38,029 --> 00:53:34,319
direction of travel of the MIR Space

684
00:53:40,249 --> 00:53:38,039
Station during that time discovery

685
00:53:42,729 --> 00:53:40,259
slowly edged forward toward the space

686
00:53:45,890 --> 00:53:42,739
station finally holding at a distance of

687
00:53:48,589 --> 00:53:45,900
37 feet before edging away to begin a

688
00:54:00,880 --> 00:53:48,599

fly around and photographic survey of

689
00:54:05,680 --> 00:54:04,150
all of the procedures and systems worked

690
00:54:08,380 --> 00:54:05,690
perfectly in supporting rendezvous

691
00:54:10,780 --> 00:54:08,390
activities today those procedures were

692
00:54:12,940 --> 00:54:10,790
developed over the past year by by teams

693
00:54:15,070 --> 00:54:12,950
of American and Russian flight

694
00:54:18,340 --> 00:54:15,080
controllers in support of plan to joint

695
00:54:21,100 --> 00:54:18,350
operations between the US and Russia STS

696
00:54:25,810 --> 00:54:21,110
63 was the first of seven planned

697
00:54:27,520 --> 00:54:25,820
missions in June of this year STS 71

698
00:54:29,440 --> 00:54:27,530
will mark the first time in American

699
00:54:32,410 --> 00:54:29,450
shuttle actually docks with the MIR

700
00:54:36,010 --> 00:54:32,420
Space Station and STS 63 is providing

701
00:54:43,110 --> 00:54:36,020
valuable data on what to expect and how

702
00:54:50,530 --> 00:54:47,110
discovery continues to send video of the

703
00:54:53,910 --> 00:54:50,540
earth below as it circles above at 210

704
00:54:56,410 --> 00:54:53,920
nautical miles currently tracking to the

705
00:54:58,150 --> 00:54:56,420
northeast over the South American

706
00:55:01,620 --> 00:54:58,160
continent on an orbit that will take it

707
00:55:05,230 --> 00:55:01,630
across over the Pacific Atlantic Ocean

708
00:55:06,970 --> 00:55:05,240
as the crew on board sleeps the flight

709
00:55:08,680 --> 00:55:06,980
controllers are continuing to support

710
00:55:11,280 --> 00:55:08,690
the timeline activities in preparation

711
00:55:15,970 --> 00:55:11,290
for tomorrow's flight day five on orbit

712
00:55:19,510 --> 00:55:15,980
and our next television event will be a

713
00:55:21,580 --> 00:55:19,520

replay of the NASA budget briefing from

714
00:55:24,640 --> 00:55:21,590
earlier today with NASA Administrator

715
00:55:26,680 --> 00:55:24,650
Daniel Goldin that briefing will begin

716
00:55:29,110 --> 00:55:26,690
at 7:00 p.m. Central Time and will last

717
00:55:31,630 --> 00:55:29,120
approximately 20 minutes at a mission