

1
00:01:03,240 --> 00:01:38,609

you

2
00:01:43,870 --> 00:01:40,929

welcome to this edition of the

3
00:01:46,270 --> 00:01:43,880

astronauts I'm Lynn Bondurant during

4
00:01:50,230 --> 00:01:46,280

this program we will relive the historic

5
00:01:52,510 --> 00:01:50,240

spaceflight of John Glenn in 1962 a

6
00:01:55,870 --> 00:01:52,520

mercury spacecraft was launched into

7
00:01:57,849 --> 00:01:55,880

orbit called friendship 7 this mercury

8
00:02:02,349 --> 00:01:57,859

spacecraft carried Glenn around earth

9
00:02:38,790 --> 00:02:02,359

three times now for our program got the

10
00:02:38,800 --> 00:03:18,610

started

11
00:03:18,620 --> 00:03:24,440

picked me back up

12
00:03:31,830 --> 00:03:29,729

look real good from here 70 seconds

13
00:03:39,570 --> 00:03:31,840

leaving a nice paper trail now looks

14

00:03:43,870 --> 00:03:39,580

real fine butch good Becky 80 seconds

15

00:03:43,880 --> 00:03:48,450

85

16

00:03:48,460 --> 00:03:53,260

bye

17

00:04:07,440 --> 00:04:02,560

I five power going out going I go

18

00:04:11,440 --> 00:04:07,450

capsule is in good shape still a 103-102

19

00:04:16,420 --> 00:04:11,450

oxygen 478 100 gallon freezer holding

20

00:04:24,040 --> 00:04:16,430

steady at 58 answers 6 all systems are

21

00:04:25,930 --> 00:04:24,050

go seek our sustainer engine cutoff the

22

00:04:28,360 --> 00:04:25,940

moment when the final Atlas engine will

23

00:04:30,010 --> 00:04:28,370

shut down when friendship 7 should

24

00:04:41,290 --> 00:04:30,020

separate from the booster rocket and

25

00:04:48,790 --> 00:04:41,300

begin orbital flight go father creates

26

00:04:52,750 --> 00:04:48,800

fired okay writers they r ok and I feel

27

00:05:01,909 --> 00:04:52,760

fine caps with turning around oh that

28

00:05:08,899 --> 00:05:05,909

to John Glenn now belongs an awesome

29

00:05:10,890 --> 00:05:08,909

panorama the world curving beneath him

30

00:05:13,379 --> 00:05:10,900

justice' with film from an earlier

31

00:05:15,119 --> 00:05:13,389

Mercury capsule I could save a bastard

32

00:05:25,420 --> 00:05:15,129

very dirty rear delt a couple hundred

33

00:05:25,430 --> 00:05:33,959

go

34

00:06:22,439 --> 00:05:36,269

clear pack of 6 cloud fought her way

35

00:06:29,650 --> 00:06:27,010

zhe I have nothing very fine feeling it

36

00:06:32,290 --> 00:06:29,660

just feels very normal and very good

37

00:06:35,110 --> 00:06:32,300

Roger friendship seven Algie look for

38

00:06:37,600 --> 00:06:35,120

Mira Costa real good save a surgery for

39

00:06:41,050 --> 00:06:37,610

Tony okay old system okay good voice

40

00:06:42,820 --> 00:06:41,060

contact both ways Roger friendship seven

41

00:06:45,129 --> 00:06:42,830

a new report on control system checks

42

00:06:48,070 --> 00:06:45,139

not yet everything appears to be going

43

00:06:58,390 --> 00:06:48,080

okay I'm now on the offer a check we are

44

00:07:00,249 --> 00:06:58,400

right on schedule very good very good so

45

00:07:07,420 --> 00:07:00,259

distributing you're cutting out on UHF

46

00:07:11,860 --> 00:07:07,430

can we go to hf Roger join bridge up to

47

00:07:15,770 --> 00:07:11,870

review the Capcom on here Richie up

48

00:07:19,850 --> 00:07:17,780

rich chips I'm gonna read you a very

49

00:07:53,890 --> 00:07:19,860

weak give you status on control system

50

00:07:53,900 --> 00:08:02,370

going across

51
00:08:09,580 --> 00:08:08,140
I'll be over this is a tunnel Capcom I

52
00:08:20,030 --> 00:08:09,590
read you loud and clear how do you read

53
00:08:24,410 --> 00:08:22,330
Roger I monitored part of your

54
00:08:27,110 --> 00:08:24,420
controller canary and heard your

55
00:08:29,159 --> 00:08:27,120
comments on the weather or Africa we had

56
00:08:31,050 --> 00:08:29,169
dusty weather here

57
00:08:36,969 --> 00:08:31,060
hardly to see a lot of this part of

58
00:08:57,840 --> 00:08:39,709
Roger will you give us a status report

59
00:09:22,720 --> 00:08:59,639
Roger do you understand by 4 retro

60
00:09:22,730 --> 00:09:28,679
persephone you are fading rapidly

61
00:09:37,929 --> 00:09:33,030
across Africa races friendship seven at

62
00:09:41,590 --> 00:09:37,939
17,500 45 miles an hour 300 miles a

63
00:09:50,860 --> 00:09:41,600

minute for miles for every heartbeat of

64

00:09:55,189 --> 00:09:53,000

friendship seven squeaks through the

65

00:09:59,990 --> 00:09:55,199

night of tomorrow and races toward the

66

00:10:02,449 --> 00:10:00,000

dawn of yesterday above the Indian Ocean

67

00:10:05,090 --> 00:10:02,459

flashes friendship seven far beyond

68

00:10:07,100 --> 00:10:05,100

human sight seen only by the electronic

69

00:10:09,230 --> 00:10:07,110

instruments of the coastal country as

70

00:10:27,660 --> 00:10:09,240

she records the lightning passage of the

71

00:10:32,490 --> 00:10:30,190

for John Glenn the familiar time

72

00:10:35,920 --> 00:10:32,500

references of Earth no longer applies

73

00:10:39,700 --> 00:10:35,930

for he journeys around our world in just

74

00:10:56,519 --> 00:10:39,710

88 minutes out racing the Sun that needs

75

00:11:11,109 --> 00:10:59,619

mrs. Boucher can't take friendships

76
00:11:16,689 --> 00:11:11,119
element is Roger friendship seven ish a

77
00:11:22,989 --> 00:11:16,699
Capcom a real fine up here everything is

78
00:11:28,689 --> 00:11:22,999
going very well very good John short day

79
00:11:30,609 --> 00:11:28,699
time and is rapidly shortly may observe

80
00:11:33,489 --> 00:11:30,619
life down here you want to take a check

81
00:11:36,279 --> 00:11:33,499
on I'll be right over I'm all set to see

82
00:11:39,279 --> 00:11:36,289
if I can't get them in sight all right

83
00:11:48,759 --> 00:11:39,289
here I any sense of vertigo and all

84
00:11:50,979 --> 00:11:48,769
these all I feel fine over show a white

85
00:11:52,719 --> 00:11:50,989
insight on the ground over our

86
00:11:55,960 --> 00:11:52,729
understand they're just off to your

87
00:11:56,600 --> 00:11:55,970
right there is just a my right eye can

88
00:11:59,120 --> 00:11:56,610

see a big

89

00:12:00,980 --> 00:11:59,130
right apparently right on the coast

90

00:12:09,340 --> 00:12:00,990
clock

91

00:12:15,710 --> 00:12:12,650
your while thank everybody for coming

92

00:13:03,000 --> 00:12:15,720
apart will you are are you sure well

93

00:13:03,010 --> 00:13:12,030
you have a chance could you give us a

94

00:13:18,030 --> 00:13:14,860
particle that i can buy coming around

95

00:13:21,769 --> 00:13:18,040
the capsule occasionally over

96

00:13:25,079 --> 00:13:21,779
Roger how big are these particles over

97

00:13:29,670 --> 00:13:25,089
there of the sixteenth of an aunt who is

98

00:13:32,999 --> 00:13:29,680
followed by the window and I can see

99

00:13:34,949 --> 00:13:33,009
them against the dark sky just at

100

00:13:44,110 --> 00:13:34,959
sunrise there were literally thousands

101
00:13:50,330 --> 00:13:47,990
LOL loss of signal guaymas has lost

102
00:13:52,940 --> 00:13:50,340
contact and friendship seven streaks

103
00:14:28,130 --> 00:13:52,950
home and unseen comics darting across

104
00:14:30,470 --> 00:14:28,140
the land minor trouble aboard friendship

105
00:14:32,570 --> 00:14:30,480
seven report a malfunction in the

106
00:14:35,330 --> 00:14:32,580
automatic control system was causing the

107
00:14:38,510 --> 00:14:35,340
spacecraft to your in skid like fashion

108
00:14:40,400 --> 00:14:38,520
away from as proper flight attitude but

109
00:14:42,590 --> 00:14:40,410
Glenn is overriding the faulty system

110
00:14:45,110 --> 00:14:42,600
and now manually controlled friendship

111
00:14:47,420 --> 00:14:45,120
seven on fly-by-wire directing its

112
00:14:57,960 --> 00:14:47,430
movements by hand control much like a

113
00:15:02,910 --> 00:15:00,480

when we have a telemetry solid and check

114

00:15:05,129 --> 00:15:02,920

all your systems out okay

115

00:15:10,619 --> 00:15:05,139

we want you to start the pre dark side

116

00:15:23,150 --> 00:15:13,900

precious therapist is a cop take white

117

00:15:28,380 --> 00:15:26,700

seven a Capcom will you confirm that

118

00:15:35,520 --> 00:15:28,390

your landing bang switch is in the off

119

00:15:37,710 --> 00:15:35,530

position over position all right he ever

120

00:15:42,120 --> 00:15:37,720

did any of banging noises or hang of

121

00:15:44,760 --> 00:15:42,130

this five-day fire rate they want this

122

00:15:48,510 --> 00:15:44,770

after last behind that routine report

123

00:15:50,400 --> 00:15:48,520

the first hint of potential disaster it

124

00:15:53,010 --> 00:15:50,410

came when astronaut Cooper relayed a

125

00:15:55,260 --> 00:15:53,020

request from mercury control asking

126

00:15:59,220 --> 00:15:55,270

Glenn to check the status lights for the

127

00:16:02,160 --> 00:15:59,230

capsules landing impact bag clean report

128

00:16:04,230 --> 00:16:02,170

status normal but ground stations are

129

00:16:06,300 --> 00:16:04,240

now receiving an ominous chilling signal

130

00:16:08,220 --> 00:16:06,310

an indication that the heat shield on

131

00:16:31,590 --> 00:16:08,230

friendship seven seems to have come

132

00:16:34,020 --> 00:16:31,600

loose friendship seven this is

133

00:16:40,550 --> 00:16:34,030

California compact California caramel

134

00:16:46,560 --> 00:16:43,940

when he kept car with the language on

135

00:16:49,170 --> 00:16:46,570

writing a much better now are you very

136

00:16:55,880 --> 00:16:49,180

good come here a bed to real happy with

137

00:17:01,710 --> 00:16:58,140

let's go by this time we'll see you next

138

00:17:04,140 --> 00:17:01,720

time around this is my can control we

139

00:17:06,960 --> 00:17:04,150

now have a contact with our wireless

140

00:17:09,329 --> 00:17:06,970

Mexico station and with the Corpus

141

00:17:11,910 --> 00:17:09,339

Christi Texas charging station the

142

00:17:13,860 --> 00:17:11,920

friendship 7 spacecraft is now committed

143

00:17:16,620 --> 00:17:13,870

to its third orbit this is mercury

144

00:17:19,350 --> 00:17:16,630

control in mercury control at Cape

145

00:17:23,400 --> 00:17:19,360

Canaveral a decision must be made and

146

00:17:25,860 --> 00:17:23,410

soon the signal pulsing down from

147

00:17:28,110 --> 00:17:25,870

friendship 7 indicates still that the

148

00:17:32,190 --> 00:17:28,120

heat shield is loose could the signal be

149

00:17:34,710 --> 00:17:32,200

erroneous there is no way to tell but if

150

00:17:37,380 --> 00:17:34,720

it's true then John Glenn could perish

151
00:17:39,720 --> 00:17:37,390
in a searing Inferno when he plunges

152
00:17:41,820 --> 00:17:39,730
back into the atmosphere the

153
00:17:43,950 --> 00:17:41,830
retro-rockets that slowed the spacecraft

154
00:17:47,070 --> 00:17:43,960
and headed back toward Earth are

155
00:17:49,860 --> 00:17:47,080
strapped over the shield if they were

156
00:17:52,500 --> 00:17:49,870
left on after retrofire instead of being

157
00:17:54,600 --> 00:17:52,510
jettisoned as in normal reentry then

158
00:17:57,780 --> 00:17:54,610
their straps might hold the shield in

159
00:18:00,330 --> 00:17:57,790
place before they burn off they might

160
00:18:03,210 --> 00:18:00,340
possibly save Glenn from the 3,000

161
00:18:05,610 --> 00:18:03,220
degrees of re-entry heat until he's deep

162
00:18:08,700 --> 00:18:05,620
enough into the atmosphere for its force

163
00:18:11,760 --> 00:18:08,710

to hold the shield in place what the

164

00:18:13,200 --> 00:18:11,770

decision must be made soon even now

165

00:18:15,930 --> 00:18:13,210

Glenn is streaking toward the United

166

00:18:19,470 --> 00:18:15,940

States and he must begin the retro

167

00:18:21,390 --> 00:18:19,480

sequence 300 miles west of California if

168

00:18:25,200 --> 00:18:21,400

he's to land in the planned recovery

169

00:18:27,900 --> 00:18:25,210

area 700 miles south and east of Florida

170

00:18:30,450 --> 00:18:27,910

will give you the countdown for reckless

171

00:18:33,390 --> 00:18:30,460

a question you look good all right we

172

00:18:36,630 --> 00:18:33,400

only have 50 seconds to retrograde over

173

00:18:40,560 --> 00:18:36,640

that's affirm Oh give you a part of 45

174

00:18:44,400 --> 00:18:40,570

for California this is Kate white okay

175

00:18:47,340 --> 00:18:44,410

but we'd like to leave the package on at

176
00:18:51,560 --> 00:18:47,350
least through Texas so keep telling his

177
00:18:53,020 --> 00:18:51,570
peaches retro jettison switch off your

178
00:19:10,260 --> 00:18:53,030
leisure

179
00:19:19,120 --> 00:19:16,930
writer barbaric Oh Roger baby are they

180
00:19:24,030 --> 00:19:19,130
ever it feels like I'm going back turn

181
00:19:32,850 --> 00:19:24,040
away that you want to go to East Coast

182
00:19:50,940 --> 00:19:38,500
writing red roses stop 500 I take your

183
00:19:50,950 --> 00:19:55,740
what's good while he will see you Becky

184
00:19:55,750 --> 00:20:29,260
Texas Capcom flight

185
00:20:48,260 --> 00:20:37,580
for this reason over all riders they

186
00:20:48,270 --> 00:21:03,550
alright alright

187
00:21:09,140 --> 00:21:06,080
all right you understand i will have to

188
00:21:13,100 --> 00:21:09,150

make a male to fight the entry when it

189

00:21:31,070 --> 00:21:13,110

occurred and the briga scope in manually

190

00:21:44,810 --> 00:21:31,080

a firm alrighty redirecting scope

191

00:21:47,420 --> 00:21:44,820

manually with the retro package on he

192

00:22:00,660 --> 00:21:47,430

noticed alia to stop in that pack of

193

00:22:00,670 --> 00:22:35,340

all right by your crap you're going out

194

00:23:06,280 --> 00:22:38,350

all contact with John Glenn and bunch of

195

00:23:06,290 --> 00:23:14,060

now

196

00:23:18,990 --> 00:23:16,800

the furnace light heat of reentry has

197

00:23:21,060 --> 00:23:19,000

created a barrier of ionization around

198

00:23:36,910 --> 00:23:21,070

friendship 7 holding all voice

199

00:23:48,790 --> 00:23:40,610

alone he plunges back to order of fiery

200

00:23:48,800 --> 00:23:56,250

now keep rigid salmon over

201
00:24:02,260 --> 00:24:00,070
keep it 70 receive over the thickening

202
00:24:05,710 --> 00:24:02,270
atmosphere breaks his descent slowing

203
00:24:10,210 --> 00:24:05,720
friendship 7 from 17,500 miles an hour

204
00:24:13,030 --> 00:24:10,220
to 1300 miles an hour in slightly over

205
00:24:15,910 --> 00:24:13,040
three minutes and the forces of gravity

206
00:24:32,290 --> 00:24:15,920
slam against John Glenn until he weighs

207
00:24:32,300 --> 00:24:40,760
okay princess panettiere came over

208
00:24:46,470 --> 00:24:44,160
7's escape test may find your ID is

209
00:24:49,940 --> 00:24:46,480
within one mile of the upper age

210
00:24:52,080 --> 00:24:49,950
destroyer voice call is steelhead

211
00:24:54,150 --> 00:24:52,090
steelhead is the code name for the

212
00:24:57,600 --> 00:24:54,160
destroyer Noah waiting to recover

213
00:25:02,180 --> 00:24:57,610

friendship 7 but John Glenn cannot hear

214

00:25:24,419 --> 00:25:02,190

the message 443 clay never spot on time

215

00:25:32,860 --> 00:25:28,230

seven going to throw early it's a rocky

216

00:25:35,710 --> 00:25:32,870

rocky mountain drove him out Roger

217

00:25:43,270 --> 00:25:35,720

trophy on a 30 thousand in about a 90

218

00:25:54,180 --> 00:25:43,280

creo Roger drop looks good Scott did not

219

00:26:12,330 --> 00:25:56,549

all right you re entry cichlid complete

220

00:26:12,340 --> 00:26:21,540

coming down on dance circles are open

221

00:26:29,550 --> 00:26:25,060

new doctrine Judith out in Reese

222

00:26:35,080 --> 00:26:29,560

conditioner 10,800 seated beautiful

223

00:26:39,400 --> 00:26:35,090

it looks good I know to emergency and

224

00:26:42,310 --> 00:26:39,410

then she very good real estate has

225

00:26:48,540 --> 00:26:42,320

gone to about 42 feet per second they

226

00:27:00,000 --> 00:26:50,940

hello mercury recovery this is pretty

227

00:27:12,730 --> 00:27:00,010

hip 70 right here still here friendship

228

00:27:21,299 --> 00:27:17,310

home is the Voyager

229

00:27:24,149 --> 00:27:21,309

behind a journey of eighty-one thousand

230

00:27:30,749 --> 00:27:24,159

miles through three days and three

231

00:27:35,789 --> 00:27:32,819

at three or four p.m. eastern standard

232

00:27:38,310 --> 00:27:35,799

time friendship seven comes to rest

233

00:27:42,329 --> 00:27:38,320

aboard the United States destroyer Noah

234

00:27:47,369 --> 00:27:42,339

and John Glenn returns to the people of

235

00:27:52,139 --> 00:27:47,379

Earth a change of clothes a breath of

236

00:27:54,659 --> 00:27:52,149

cool air a short debrief then Glenn

237

00:27:57,299 --> 00:27:54,669

leaves the Noah heading for the aircraft

238

00:28:06,160 --> 00:27:57,309

carrier Randolph under the golden

239

00:28:12,050 --> 00:28:09,500

John Glenn's historic spaceflight paved

240

00:28:13,880 --> 00:28:12,060

the way for others to follow thank you

241

00:28:16,400 --> 00:28:13,890

for joining us for this edition of the

242

00:28:18,890 --> 00:28:16,410

astronauts I'm Lynn Bondurant at the