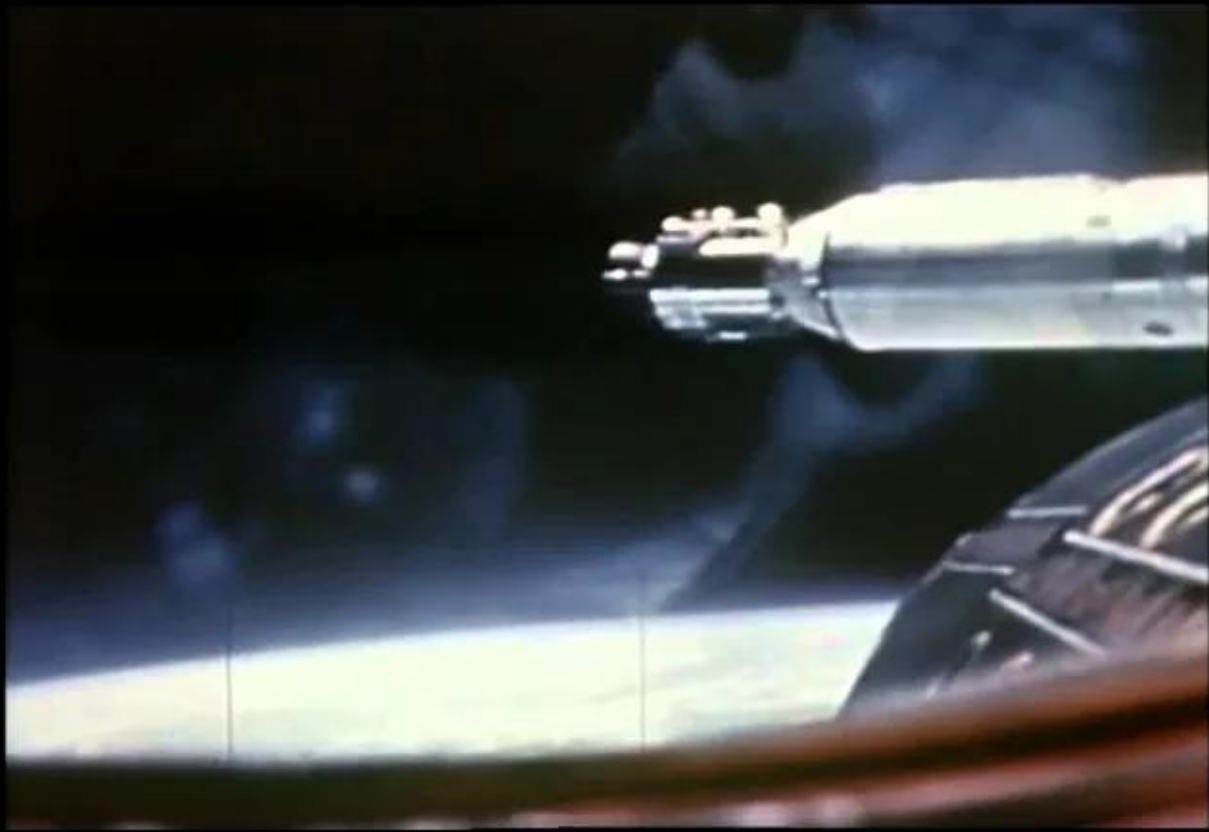

1
00:00:02,480 --> 00:00:13,959
ignition

2
00:00:19,580 --> 00:00:17,300
six-zero aspects good flight mr. Patrick

3
00:00:22,010 --> 00:00:19,590
plot start feel pressure running a

4
00:00:29,839 --> 00:00:27,160
how's it looking guidance project

5
00:00:31,730 --> 00:00:29,849
they'll find a slightly low no problem

6
00:00:34,100 --> 00:00:31,740
Roger Fido how about you for state next

7
00:00:36,430 --> 00:00:34,110
thanks ago staging Roger Capcom we're go

8
00:00:39,770 --> 00:00:36,440
for staging

9
00:00:43,520 --> 00:00:39,780
Roger staging how's that thrust low

10
00:00:48,200 --> 00:00:43,530
booster that frets is looking a little

11
00:00:50,660 --> 00:00:48,210
high right Roger okay all status check

12
00:00:54,709 --> 00:00:50,670
booster go retro go right off go

13
00:00:57,950 --> 00:00:54,719

guidance guidance you go standby one

14
00:01:01,130 --> 00:00:57,960
sergeant go he can't go Chauncey go how

15
00:01:06,230 --> 00:01:01,140
do you stand guidance I go flight Roger

16
00:01:09,440 --> 00:01:06,240
Capcom where go early shutdown we have a

17
00:01:11,270 --> 00:01:09,450
Seco here play hide your shutdown black

18
00:01:13,240 --> 00:01:11,280
father we had cut off standby

19
00:01:16,130 --> 00:01:13,250
Roger Fido panting boy for having eyes

20
00:01:23,170 --> 00:01:16,140
like the eyes going over 300 feet per

21
00:01:29,810 --> 00:01:27,260
72 is to fire auto work now go we've got

22
00:01:34,280 --> 00:01:29,820
work no go little Capcom work no go

23
00:01:35,020 --> 00:01:34,290
Roger you are no go no go that's all you

24
00:01:40,070 --> 00:01:35,030
got a time here

25
00:01:42,710 --> 00:01:40,080
Roger flight area charlie at 9:00 +20

26
00:01:50,330 --> 00:01:42,720
fall angle on the retro seven degrees

27
00:01:54,980 --> 00:01:50,340
recovery will be retro firing at nine

28
00:01:56,540 --> 00:01:54,990
plus 20 Roger flight give me some

29
00:02:00,800 --> 00:01:56,550
weather and access times in that area

30
00:02:04,760 --> 00:02:00,810
please no swells and your callsign

31
00:02:10,850 --> 00:02:04,770
rescue one that Destroyer is below five

32
00:02:18,410 --> 00:02:10,860
four three two one retrofire touching

33
00:02:23,510 --> 00:02:20,990
this was not an actual Germany mission

34
00:02:26,570 --> 00:02:23,520
nobody left the ground Germany did not

35
00:02:28,580 --> 00:02:26,580
abort we have simply edited together an

36
00:02:32,690 --> 00:02:28,590
isolated launch with shots of the flight

37
00:02:34,400 --> 00:02:32,700
controllers simulating that launch the

38
00:02:35,570 --> 00:02:34,410

flight was simulated from an adjacent

39
00:02:37,790 --> 00:02:35,580
room in the Mission Control Center

40
00:02:40,160 --> 00:02:37,800
Houston and like many other things in

41
00:02:43,760 --> 00:02:40,170
the Space Age flight simulation is done

42
00:02:46,370 --> 00:02:43,770
by computers the primary and backup crew

43
00:02:48,380 --> 00:02:46,380
for Gemini 8 will undergo 11 days of

44
00:02:50,500 --> 00:02:48,390
such simulated flights before launch day

45
00:02:53,180 --> 00:02:50,510
March 16

46
00:02:56,960 --> 00:02:53,190
early in the program experts sit down

47
00:02:58,880 --> 00:02:56,970
and analyze the Gemini 8 flight they

48
00:03:01,009 --> 00:02:58,890
know it is a three day mission its

49
00:03:03,259 --> 00:03:01,019
primary purposes include rendezvous in

50
00:03:05,479 --> 00:03:03,269
space women Agena target vehicle the

51
00:03:09,170 --> 00:03:05,489
first docking in space and a two-hour

52
00:03:11,270 --> 00:03:09,180
spacewalk by pilot David Scott the

53
00:03:14,680 --> 00:03:11,280
experts then devise problems that could

54
00:03:17,300 --> 00:03:14,690
occur some simple some quite challenging

55
00:03:19,039 --> 00:03:17,310
they feed these problems into a computer

56
00:03:22,759 --> 00:03:19,049
and sit back and see what happens

57
00:03:24,170 --> 00:03:22,769
perhaps with a little glee at any rate

58
00:03:26,060 --> 00:03:24,180
the crew in the simulator and the

59
00:03:29,050 --> 00:03:26,070
controller at the console are given the

60
00:03:31,940 --> 00:03:29,060
problem both must respond correctly

61
00:03:35,030 --> 00:03:31,950
about ninety problems will be run for

62
00:03:36,740 --> 00:03:35,040
the Gemini 8 mission on the schedule are

63
00:03:40,880 --> 00:03:36,750

two days devoted to the Agena target

64
00:03:43,430 --> 00:03:40,890
vehicle for days devoted to network

65
00:03:45,560 --> 00:03:43,440
simulations and two days scheduled for

66
00:03:48,949 --> 00:03:45,570
running re-entry simulations including

67
00:03:51,050 --> 00:03:48,959
emergency reentry's eleven days of

68
00:03:53,509 --> 00:03:51,060
problem solving most probably none of

69
00:03:55,490 --> 00:03:53,519
them would turn up during the flight but

70
00:03:57,140 --> 00:03:55,500
if one should the crew and the five

71
00:03:58,819 --> 00:03:57,150
thousand people in the ground network

72
00:04:03,650 --> 00:03:58,829
that support these two men would be

73
00:04:05,990 --> 00:04:03,660
ready several days before Gemini 8 will

74
00:04:08,000 --> 00:04:06,000
leave the ground the USS boxer steams

75
00:04:12,080 --> 00:04:08,010
toward the primary recovery zone where

76
00:04:13,970 --> 00:04:12,090
the mission will normally end it begins

77
00:04:16,430 --> 00:04:13,980
training its complement of officers and

78
00:04:18,529 --> 00:04:16,440
men in recovery operations instead of

79
00:04:20,569 --> 00:04:18,539
launching amphibious strike missions the

80
00:04:22,909 --> 00:04:20,579
boxer now launches helicopters for

81
00:04:24,740 --> 00:04:22,919
search and retrieval of astronauts on

82
00:04:27,020 --> 00:04:24,750
board is the commander of the western

83
00:04:30,409 --> 00:04:27,030
Atlantic recovery forces known as Task

84
00:04:31,999 --> 00:04:30,419
Force one forty point three two ships

85
00:04:33,709 --> 00:04:32,009
six helicopters

86
00:04:37,820 --> 00:04:33,719
and six aircraft are assigned to this

87
00:04:39,709 --> 00:04:37,830
task force all five man Gemini flights

88
00:04:44,689 --> 00:04:39,719

to date have been recovered as planned

89
00:04:47,989 --> 00:04:44,699
in the primary zone still 10 more ships

90
00:04:49,639 --> 00:04:47,999
54 aircraft and 5,000 additional men

91
00:04:52,879 --> 00:04:49,649
will be deployed at different stations

92
00:04:55,129 --> 00:04:52,889
around the world for recovery there are

93
00:04:56,719 --> 00:04:55,139
nine other planned landing areas lying

94
00:05:01,040 --> 00:04:56,729
within the three major zones of the

95
00:05:04,279 --> 00:05:01,050
eastern Atlantic the mid Pacific and the

96
00:05:06,589 --> 00:05:04,289
Western Pacific in the western Pacific

97
00:05:08,869 --> 00:05:06,599
the USS Leonard F Mason a destroyer

98
00:05:10,610 --> 00:05:08,879
begins exercises on the retrieval of a

99
00:05:14,329 --> 00:05:10,620
border plate model of the Germany space

100
00:05:16,489 --> 00:05:14,339
craft the Mason will cover three landing

101
00:05:18,679 --> 00:05:16,499
areas within zone three it will be

102
00:05:21,139 --> 00:05:18,689
backed up by aircraft from Okinawa and

103
00:05:22,939 --> 00:05:21,149
Japan the chief difference between the

104
00:05:25,339 --> 00:05:22,949
primary area where the boxer is

105
00:05:27,290 --> 00:05:25,349
stationed and a secondary area such as

106
00:05:29,689 --> 00:05:27,300
this is the comprehensiveness of

107
00:05:34,129 --> 00:05:29,699
coverage the number of aircraft ships

108
00:05:36,230 --> 00:05:34,139
and recovery specialists on station in

109
00:05:37,939 --> 00:05:36,240
addition a special launch abort area

110
00:05:40,790 --> 00:05:37,949
covers the landmass and immediate

111
00:05:42,860 --> 00:05:40,800
offshore areas at Cape Kennedy recovery

112
00:05:44,689 --> 00:05:42,870
teams go out before the astronauts enter

113
00:05:46,699 --> 00:05:44,699

the spacecraft in case of an ejected

114
00:05:50,509 --> 00:05:46,709
abort from the launch pad or shortly

115
00:05:52,759 --> 00:05:50,519
after liftoff there could be more

116
00:05:54,529 --> 00:05:52,769
extreme contingencies the emergency

117
00:05:58,279 --> 00:05:54,539
might be such that a spacecraft could

118
00:06:00,409 --> 00:05:58,289
not land in a planned landing area in a

119
00:06:02,299 --> 00:06:00,419
dire emergency the command planet might

120
00:06:04,699 --> 00:06:02,309
have to fire the retrorockets and come

121
00:06:07,999 --> 00:06:04,709
right down there statistics come into

122
00:06:11,299 --> 00:06:08,009
play here the world is 70% water and 30%

123
00:06:13,610 --> 00:06:11,309
land the odds are strongly weighted

124
00:06:15,559 --> 00:06:13,620
toward a water landing aircraft are

125
00:06:19,070 --> 00:06:15,569
stationed at 12 points to locate the

126
00:06:20,899 --> 00:06:19,080
spacecraft in this emergency any

127
00:06:22,909 --> 00:06:20,909
commercial shipping in the area might

128
00:06:25,639 --> 00:06:22,919
then be called for assistance to pick up

129
00:06:27,860 --> 00:06:25,649
the astronauts freighters Oilers tankers

130
00:06:31,719 --> 00:06:27,870
any ship with heavy hoist equipment

131
00:06:36,829 --> 00:06:34,699
if the crew comes down over land they

132
00:06:40,749 --> 00:06:36,839
would use the ejection seats leave the

133
00:06:42,980 --> 00:06:40,759
spacecraft and land by parachute

134
00:06:45,110 --> 00:06:42,990
astronauts have not only a complete

135
00:06:47,450 --> 00:06:45,120
survival kit to sustain them but they

136
00:06:51,650 --> 00:06:47,460
trained to live off the land even desert

137
00:06:54,140 --> 00:06:51,660
and jungle weather Germany comes down

138
00:06:56,330 --> 00:06:54,150

over water or land recovery is planned

139
00:06:58,879 --> 00:06:56,340
and coordinated by a NASA team of

140
00:07:00,890 --> 00:06:58,889
specialists they setup the requirements

141
00:07:05,060 --> 00:07:00,900
for a mission and work closely with the

142
00:07:07,219 --> 00:07:05,070
Department of Defense DoD then commits

143
00:07:08,030 --> 00:07:07,229
the necessary ships and aircraft to do

144
00:07:10,760 --> 00:07:08,040
the job

145
00:07:13,129 --> 00:07:10,770
the DoD manager for manned spacecraft

146
00:07:15,620 --> 00:07:13,139
Support directs worldwide recovery

147
00:07:17,990 --> 00:07:15,630
forces he is in contact with two main

148
00:07:20,060 --> 00:07:18,000
elements under his command the Atlantic

149
00:07:22,129 --> 00:07:20,070
recovery Control Center Cape Kennedy and

150
00:07:25,340 --> 00:07:22,139
the Pacific recovery control center

151
00:07:27,409 --> 00:07:25,350
Hawaii the red telephone puts him into

152
00:07:29,090 --> 00:07:27,419
direct contact with the highest levels

153
00:07:33,260 --> 00:07:29,100
of the Department of Defense for further

154
00:07:35,330 --> 00:07:33,270
assistance but all of this the red

155
00:07:38,000 --> 00:07:35,340
telephone and the contingency aircraft

156
00:07:42,110 --> 00:07:38,010
off Pago Pago Island South Pacific seems

157
00:07:43,850 --> 00:07:42,120
remote on the 16th of March the crew is

158
00:07:49,370 --> 00:07:43,860
entering their spacecraft for what has

159
00:07:52,190 --> 00:07:49,380
every sign of being a normal flight at

160
00:07:54,320 --> 00:07:52,200
the same time on launch complex 14 the

161
00:07:57,050 --> 00:07:54,330
Atlas Aegina count is only 25 minutes

162
00:07:59,120 --> 00:07:57,060
from liftoff the Gemini mission is

163
00:08:03,050 --> 00:07:59,130

largely based on a successful orbit of

164
00:08:05,690 --> 00:08:03,060
the target vehicle the Agena count has

165
00:08:07,940 --> 00:08:05,700
no holds right on the nose at 10 o'clock

166
00:08:10,040 --> 00:08:07,950
Eastern Standard Time the Atlas launch

167
00:08:28,560 --> 00:08:10,050
vehicle ignites

168
00:08:33,330 --> 00:08:31,080
Atlas has three main propulsion engines

169
00:08:35,420 --> 00:08:33,340
which ignited liftoff - our booster

170
00:08:38,340 --> 00:08:35,430
engines and one is a sustainer engine

171
00:08:40,130 --> 00:08:38,350
the booster engines cutoff first some

172
00:08:43,020 --> 00:08:40,140
two minutes 40 seconds into the flight

173
00:08:45,900 --> 00:08:43,030
the sustainer engine then takes over and

174
00:08:49,980 --> 00:08:45,910
propels the Agena to an altitude of 650

175
00:08:52,140 --> 00:08:49,990
4,000 190 feet - small vernier engines

176
00:08:54,180 --> 00:08:52,150
on the Atlas continue to position the

177
00:08:56,970 --> 00:08:54,190
Agena properly in the later phases of

178
00:08:59,940 --> 00:08:56,980
launch they cut off at five minutes six

179
00:09:01,650 --> 00:08:59,950
seconds after liftoff the Agena

180
00:09:03,450 --> 00:09:01,660
propulsion system then inserts the

181
00:09:05,760 --> 00:09:03,460
target vehicle into a circular orbit

182
00:09:09,740 --> 00:09:05,770
today the flight plan calls for a

183
00:09:11,730 --> 00:09:09,750
circular orbit of 161 nautical miles

184
00:09:14,280 --> 00:09:11,740
something close to that would be

185
00:09:16,050 --> 00:09:14,290
acceptable the Agena propulsion system

186
00:09:20,580 --> 00:09:16,060
can be started from the ground and a

187
00:09:22,230 --> 00:09:20,590
burn completed to change the orbit but

188
00:09:24,390 --> 00:09:22,240

as the final figures come up to the

189
00:09:26,940 --> 00:09:24,400
flight dynamics officer no in-flight

190
00:09:29,970 --> 00:09:26,950
burns will be needed Aegina has hit the

191
00:09:33,540 --> 00:09:29,980
planned circular orbit of 161 nautical

192
00:09:35,880 --> 00:09:33,550
miles this is a good beginning for any

193
00:09:37,760 --> 00:09:35,890
rendezvous flight the news is given the

194
00:09:40,830 --> 00:09:37,770
crew by the spacecraft communicator

195
00:09:42,140 --> 00:09:40,840
pilot Scott comes back with just what

196
00:09:44,850 --> 00:09:42,150
the doctor ordered

197
00:09:47,880 --> 00:09:44,860
the flight director now calls for launch

198
00:09:50,790 --> 00:09:47,890
of Gemini 8 at 11:40 and 59 seconds

199
00:09:52,620 --> 00:09:50,800
Eastern Standard Time offshore the

200
00:09:55,230 --> 00:09:52,630
launch site recovery forces are fully

201
00:10:13,510 --> 00:09:55,240
deployed they now can only wait like the

202
00:10:13,520 --> 00:10:33,510
five four

203
00:10:58,770 --> 00:10:51,330
[Music]

204
00:11:13,960 --> 00:11:01,480
the liftoff came as flight director

205
00:11:22,119 --> 00:11:16,809
Gemini 8 goes into the clouds my above

206
00:11:24,009 --> 00:11:22,129
Cape Kennedy as the spacecraft comes out

207
00:11:25,960 --> 00:11:24,019
of the clouds an aerial chase plane

208
00:11:28,059 --> 00:11:25,970
picks it up for a close look at what

209
00:11:36,399 --> 00:11:28,069
it's like to ride as a spacecraft crew

210
00:11:38,169 --> 00:11:36,409
on top of a booster after 50 seconds the

211
00:11:41,829 --> 00:11:38,179
crew releases the restraints which are

212
00:11:44,229 --> 00:11:41,839
required for seat ejection Gemini 8 was

213
00:11:47,649 --> 00:11:44,239

inserted into an orbit of 86 nautical

214
00:11:51,009 --> 00:11:47,659
miles by 146 nautical miles very close

215
00:12:10,569 --> 00:11:51,019
to the planned values of 86 by 145

216
00:12:12,249 --> 00:12:10,579
nautical miles the launch site abort is

217
00:12:14,679 --> 00:12:12,259
the first contingency that has passed

218
00:12:16,629 --> 00:12:14,689
successfully a carefully trained team

219
00:12:20,649 --> 00:12:16,639
has been released and returns to other

220
00:12:22,809 --> 00:12:20,659
duties with two good orbits target

221
00:12:26,289 --> 00:12:22,819
vehicle and spacecraft Gemini 8 had a

222
00:12:27,849 --> 00:12:26,299
head start on rendezvous and docking the

223
00:12:29,769 --> 00:12:27,859
maneuvers for rendezvous would be

224
00:12:33,669 --> 00:12:29,779
essentially the same as those performed

225
00:12:35,859 --> 00:12:33,679
by Gemini 6 so fast does the space

226
00:12:38,049 --> 00:12:35,869
program accelerate that rendezvous was

227
00:12:40,449 --> 00:12:38,059
the primary objective of Gemini 6 in

228
00:12:42,609 --> 00:12:40,459
December but three months later it is

229
00:12:45,879 --> 00:12:42,619
March and rendezvous almost seems

230
00:12:48,639 --> 00:12:45,889
routine everyone is focused more on

231
00:12:51,399 --> 00:12:48,649
docking everyone except those who fly

232
00:12:55,649 --> 00:12:51,409
the mission then you take things step by

233
00:12:58,779 --> 00:12:55,659
step this is simply control Houston

234
00:13:02,289 --> 00:12:58,789
about two minutes ago Neil Armstrong

235
00:13:04,509 --> 00:13:02,299
called in over Tanana Reeve and he was

236
00:13:08,619 --> 00:13:04,519
able to confirm at that time that radar

237
00:13:11,169 --> 00:13:08,629
lock had been established Roger do you

238
00:13:17,920 --> 00:13:11,179

have solid radar lock on with you Gina

239
00:13:30,860 --> 00:13:28,519
thank you sounds good after radar lock

240
00:13:35,079 --> 00:13:30,870
on the crew will circularize their orbit

241
00:13:39,610 --> 00:13:37,490
meantime the ground does not sit still

242
00:13:42,290 --> 00:13:39,620
idly waiting for something to happen

243
00:13:43,670 --> 00:13:42,300
recovery forces are constantly shifting

244
00:13:46,160 --> 00:13:43,680
in response to the orbit of the

245
00:13:50,210 --> 00:13:46,170
spacecraft changing station according to

246
00:13:52,460 --> 00:13:50,220
a detailed recovery plan the USS

247
00:13:56,210 --> 00:13:52,470
Cochrane a destroyer in the mid Pacific

248
00:13:58,220 --> 00:13:56,220
takes position for a 4-4 recovery that

249
00:14:02,749 --> 00:13:58,230
is recovery in the fourth revolution in

250
00:14:04,309 --> 00:14:02,759
zone 4 zone 3 will be the planned

251
00:14:07,329 --> 00:14:04,319
landing zone for the next three

252
00:14:09,980 --> 00:14:07,339
revolutions four five six and seven

253
00:14:12,230 --> 00:14:09,990
after that Gemini 8 will not be over a

254
00:14:14,480 --> 00:14:12,240
planned landing area again until the

255
00:14:18,980 --> 00:14:14,490
tenth revolution then it passes over the

256
00:14:20,990 --> 00:14:18,990
eastern Atlantic zone if an emergency

257
00:14:22,730 --> 00:14:21,000
occurs in the eighth or ninth revolution

258
00:14:25,370 --> 00:14:22,740
the spacecraft will land in a

259
00:14:27,259 --> 00:14:25,380
contingency area recovery is supported

260
00:14:30,829 --> 00:14:27,269
there by aircraft and available

261
00:14:33,050 --> 00:14:30,839
commercial shipping but right now much

262
00:14:34,990 --> 00:14:33,060
of this seems academic the crew has

263
00:14:43,260 --> 00:14:35,000

other business

264
00:15:06,569 --> 00:14:52,350
[Music]

265
00:15:06,579 --> 00:15:17,470
and that's great man

266
00:15:22,640 --> 00:15:19,550
first thing we really have to do

267
00:15:24,590 --> 00:15:22,650
platform peril is 650 to 750

268
00:15:26,470 --> 00:15:24,600
and they're giving us the SPC loaded

269
00:15:29,840 --> 00:15:26,480
y'all maneuver

270
00:15:35,900 --> 00:15:33,250
they're gonna give you that time

271
00:15:36,910 --> 00:15:35,910
I'll check your own stash this place

272
00:15:39,819 --> 00:15:36,920
wait

273
00:15:48,249 --> 00:15:39,829
those lucky guys are just jumping up and

274
00:15:50,079 --> 00:15:48,259
down we are looking at the left or

275
00:15:51,970 --> 00:15:50,089
command pilots window as the

276
00:15:56,229 --> 00:15:51,980
station-keeping exercise where the Gina

277
00:15:58,379 --> 00:15:56,239
begins Gemini 8 had no difficulty in

278
00:16:01,569 --> 00:15:58,389
maneuvering in the vicinity of the Agena

279
00:16:03,759 --> 00:16:01,579
the onboard film as in past flights was

280
00:16:08,229 --> 00:16:03,769
at 6 frames per second and is being

281
00:16:10,780 --> 00:16:08,239
projected at 4 times that speed after

282
00:16:12,849 --> 00:16:10,790
station keeping for 35 minutes command

283
00:16:15,069 --> 00:16:12,859
pilot Armstrong begins to move in closer

284
00:16:17,619 --> 00:16:15,079
to a Gina preparing his final docking

285
00:16:22,449 --> 00:16:17,629
approach both vehicles are traveling at

286
00:16:23,859 --> 00:16:22,459
approximately 17,500 miles per hour we

287
00:16:27,220 --> 00:16:23,869
are looking at the target docking

288
00:16:28,900 --> 00:16:27,230

adaptor end of the Agena the command

289
00:16:31,569 --> 00:16:28,910
pilot makes a docking approach by

290
00:16:34,479 --> 00:16:31,579
applying very small thrust increases to

291
00:16:36,579 --> 00:16:34,489
Gemini 8 the maximum velocity difference

292
00:16:42,009 --> 00:16:36,589
between the two vehicles at docking will

293
00:16:44,019 --> 00:16:42,019
be about 1 foot per second when the

294
00:16:46,150 --> 00:16:44,029
command pilot is about 2 feet from the

295
00:16:51,069 --> 00:16:46,160
Agena he will pause until he gets a goal

296
00:17:02,690 --> 00:16:51,079
from the Rose not Victor the double

297
00:17:02,700 --> 00:17:24,500
[Applause]

298
00:17:30,800 --> 00:17:27,840
that was it two vehicles docked for the

299
00:17:33,300 --> 00:17:30,810
first time in space

300
00:17:35,160 --> 00:17:33,310
shortly after docking the crew was

301
00:17:37,200 --> 00:17:35,170
slightly surprised when Jim Lovell the

302
00:17:42,060 --> 00:17:37,210
spacecraft communicator checked in with

303
00:17:51,300 --> 00:17:42,070
this caution Roger a new line and clear

304
00:17:54,870 --> 00:17:51,310
I have some information for you if you

305
00:17:56,400 --> 00:17:54,880
run into trouble and the the attitude

306
00:17:59,550 --> 00:17:56,410
control system eugenia

307
00:18:01,170 --> 00:17:59,560
goes wild just send in command 402 turn

308
00:18:08,280 --> 00:18:01,180
it off and take control to spacecraft

309
00:18:11,040 --> 00:18:08,290
did you cover that it was a routine

310
00:18:13,350 --> 00:18:11,050
check you punched four zero zero into

311
00:18:15,510 --> 00:18:13,360
the on-board computer this automatically

312
00:18:17,670 --> 00:18:15,520
turns off the attitude control system of

313
00:18:21,450 --> 00:18:17,680

the Agena if the problem is a Gina

314
00:18:23,730 --> 00:18:21,460
control that ends it minutes later

315
00:18:26,090 --> 00:18:23,740
Gemini 8 passed out of communications

316
00:18:28,860 --> 00:18:26,100
range beyond the island of Madagascar

317
00:18:34,710 --> 00:18:28,870
the crew was preparing to begin a series

318
00:18:38,400 --> 00:18:34,720
of docking exercises and the mason was

319
00:18:42,630 --> 00:18:38,410
between stations it had left 5-3 and was

320
00:18:44,550 --> 00:18:42,640
headed for a 6-3 recovery zone since we

321
00:18:46,650 --> 00:18:44,560
were in the fifth revolution the retro

322
00:18:49,290 --> 00:18:46,660
fire experts were routinely updating

323
00:18:51,600 --> 00:18:49,300
their retro fire times these are usually

324
00:18:55,230 --> 00:18:51,610
planned for six revolutions ahead and

325
00:18:57,000 --> 00:18:55,240
stored in the onboard computer it was

326
00:18:59,190 --> 00:18:57,010
about this time that gin level almost

327
00:19:02,190 --> 00:18:59,200
qualified as the space prophet of the

328
00:19:04,200 --> 00:19:02,200
year for seven hours after liftoff and

329
00:19:08,030 --> 00:19:04,210
27 minutes of normal docking an

330
00:19:11,250 --> 00:19:08,040
excessive yaw and roll motion occurred

331
00:19:14,340 --> 00:19:11,260
the crew punched up 400 but the trouble

332
00:19:17,210 --> 00:19:14,350
was not in the Agena unable to find an

333
00:19:19,710 --> 00:19:17,220
immediate answer mr. Armstrong undocked

334
00:19:24,530 --> 00:19:19,720
the roll rate continued to build up

335
00:19:28,410 --> 00:19:26,790
struggling to regain control mr.

336
00:19:30,240 --> 00:19:28,420
Armstrong was forced to fire the

337
00:19:32,390 --> 00:19:30,250
re-entry thrusters and gradually

338
00:19:35,160 --> 00:19:32,400

reasserted control over the spacecraft

339
00:19:37,590 --> 00:19:35,170
neither crewman experienced any loss of

340
00:19:41,760 --> 00:19:37,600
orientation Gemini never a pro

341
00:19:43,680 --> 00:19:41,770
a critical structural strain once the

342
00:19:45,900 --> 00:19:43,690
re-entry thrusters are fired there is

343
00:19:49,490 --> 00:19:45,910
the possibility of fuel leakage in orbit

344
00:19:51,450 --> 00:19:49,500
leaking of fuel essential for reentry

345
00:19:54,539 --> 00:19:51,460
the flight had been highly successful

346
00:19:56,310 --> 00:19:54,549
through 27 minutes of docking but final

347
00:19:57,390 --> 00:19:56,320
action rests squarely on the shoulders

348
00:20:00,450 --> 00:19:57,400
of this man

349
00:20:04,230 --> 00:20:00,460
the flight director a decision came

350
00:20:06,720 --> 00:20:04,240
quickly fuel readings were too low abort

351
00:20:10,590 --> 00:20:06,730
that was the first decision others

352
00:20:12,480 --> 00:20:10,600
follow where do we recover a stream of

353
00:20:16,860 --> 00:20:12,490
facts flow into flight director Hodges

354
00:20:19,649 --> 00:20:16,870
console exact orbital position weather

355
00:20:22,409 --> 00:20:19,659
in the Pacific available daylight in

356
00:20:25,500 --> 00:20:22,419
recovery zones and the whereabouts of

357
00:20:27,270 --> 00:20:25,510
the USS Mason a destroyer which had

358
00:20:28,919 --> 00:20:27,280
repetitiously practiced picking up a

359
00:20:31,730 --> 00:20:28,929
boilerplate model of Germany in the

360
00:20:34,169 --> 00:20:31,740
waters of the Pacific came into its own

361
00:20:37,590 --> 00:20:34,179
millions of people suddenly learned that

362
00:20:38,130 --> 00:20:37,600
it existed with Gemini stabilized in

363
00:20:39,419 --> 00:20:38,140

flight

364
00:20:42,840 --> 00:20:39,429
there were several advantages to

365
00:20:44,850 --> 00:20:42,850
delaying re-entry for another orbit the

366
00:20:47,370 --> 00:20:44,860
retrofire officer would have an exact

367
00:20:49,830 --> 00:20:47,380
reading on retrofire times and the crew

368
00:20:54,120 --> 00:20:49,840
could prepare for re-entry and aircraft

369
00:20:56,100 --> 00:20:54,130
could be on station at splashdown this

370
00:20:58,289 --> 00:20:56,110
is the way it would be the NASA

371
00:21:02,940 --> 00:20:58,299
coordinator leans over toward the DoD

372
00:21:04,919 --> 00:21:02,950
console we want to recover in 7-3 the

373
00:21:06,539 --> 00:21:04,929
DoD manager immediately punches the

374
00:21:09,299 --> 00:21:06,549
button which puts him in contact with

375
00:21:11,760 --> 00:21:09,309
Pacific recovery control Hawaii Hawaii

376
00:21:14,610 --> 00:21:11,770
alerts the captain of the Mason he

377
00:21:18,480 --> 00:21:14,620
swings around and heads for 7-3 making

378
00:21:21,000 --> 00:21:18,490
30 knots search aircraft scramble from

379
00:21:22,649 --> 00:21:21,010
Okinawa they will be over the predicted

380
00:21:26,970 --> 00:21:22,659
landing point 10 minutes before the

381
00:21:29,070 --> 00:21:26,980
spacecraft splashes down as Gemini 8

382
00:21:31,140 --> 00:21:29,080
begins its seventh and final revolution

383
00:21:35,549 --> 00:21:31,150
weather is excellent in the splashdown

384
00:21:38,100 --> 00:21:35,559
area the crew is busy the command pilot

385
00:21:40,049 --> 00:21:38,110
has time for only this brief reflection

386
00:21:42,600 --> 00:21:40,059
I'd like to argue with them about going

387
00:21:46,560 --> 00:21:42,610
home but I don't know how we can that

388
00:21:49,200 --> 00:21:46,570

was all Gemini 8 sweeps past Ascension

389
00:21:51,000 --> 00:21:49,210
Island retrofire will come up over Kano

390
00:21:53,280 --> 00:21:51,010
Nigeria

391
00:21:55,820 --> 00:21:53,290
air-to-ground communications are broken

392
00:21:58,320 --> 00:21:55,830
but the Rockets fire right on the nose

393
00:22:00,419 --> 00:21:58,330
the crew begins their descent through

394
00:22:02,700 --> 00:22:00,429
the atmosphere this is the view they

395
00:22:03,750 --> 00:22:02,710
will see for a long time the high peaks

396
00:22:05,850 --> 00:22:03,760
of the Himalayas

397
00:22:07,500 --> 00:22:05,860
after these forbidding mountains the

398
00:22:12,030 --> 00:22:07,510
sweep of the Pacific will look friendly

399
00:22:14,039 --> 00:22:12,040
and hospitable waiting for Gemini 8 our

400
00:22:15,870 --> 00:22:14,049
rescue aircraft circling in the landing

401
00:22:18,870 --> 00:22:15,880
area ready to pick up an electronic

402
00:22:20,520 --> 00:22:18,880
signal from the spacecraft two aircrafts

403
00:22:22,440 --> 00:22:20,530
from okinawa were originally assigned

404
00:22:24,530 --> 00:22:22,450
here but five others were quickly

405
00:22:27,630 --> 00:22:24,540
alerted and added to the recovery team

406
00:22:29,970 --> 00:22:27,640
when Gemini 8 is only three miles away a

407
00:22:33,630 --> 00:22:29,980
c-54 catches sight of it on the main

408
00:22:35,880 --> 00:22:33,640
landing parachute after that landing is

409
00:22:37,830 --> 00:22:35,890
almost routine and Gemini 8 landed

410
00:22:39,409 --> 00:22:37,840
within two miles of the predicted impact

411
00:22:41,970 --> 00:22:39,419
point

412
00:22:44,850 --> 00:22:41,980
the first para rescue swimmer in the

413
00:22:46,890 --> 00:22:44,860

water is airman first class Neel airman

414
00:22:49,409 --> 00:22:46,900
Neel is a veteran of combat rescue work

415
00:22:51,390 --> 00:22:49,419
and a good man to have on your side he

416
00:22:56,460 --> 00:22:51,400
was quickly followed by two other rescue

417
00:22:58,500 --> 00:22:56,470
swimmers it was early afternoon in the

418
00:23:00,960 --> 00:22:58,510
Pacific but almost 11 o'clock at night

419
00:23:04,140 --> 00:23:00,970
in the Atlantic where the USS boxer had

420
00:23:07,080 --> 00:23:04,150
waited the Mason three hours away at

421
00:23:10,320 --> 00:23:07,090
splashdown reached the area at 3:17 p.m.

422
00:23:16,110 --> 00:23:10,330
local time crew and spacecraft both in

423
00:23:18,510 --> 00:23:16,120
good shape were soon aboard within 72

424
00:23:20,820 --> 00:23:18,520
hours NASA scientists would pin down the

425
00:23:22,950 --> 00:23:20,830
source of trouble a short circuit in the

426
00:23:25,740 --> 00:23:22,960
wiring of the number-8 yaw thruster had

427
00:23:27,870 --> 00:23:25,750
caused it to fire erratically the

428
00:23:30,150 --> 00:23:27,880
possibility of this failure recurring is

429
00:23:32,700 --> 00:23:30,160
slight but a master switch has now been

430
00:23:34,350 --> 00:23:32,710
added to the Gemini spacecraft the crew

431
00:23:36,510 --> 00:23:34,360
can throw this switch and cut off all

432
00:23:40,130 --> 00:23:36,520
power to the attitude thrusters in any

433
00:23:44,450 --> 00:23:42,770
once the difficulty was corrected we

434
00:23:46,549 --> 00:23:44,460
could take time out to realize that

435
00:23:48,770 --> 00:23:46,559
Gemini 8 had brought us closer to lunar

436
00:23:56,920 --> 00:23:48,780
exploration by demonstrating the first

437
00:24:05,580 --> 00:24:02,820
[Music]

438
00:24:07,560 --> 00:24:05,590

Gemini 8 also gave many of us our first

439
00:24:10,019 --> 00:24:07,570
look at men like the three young rescue

440
00:24:12,120 --> 00:24:10,029
swimmers airman Neil and Moore and Staff

441
00:24:14,730 --> 00:24:12,130
Sergeant Hewitt as well as the captain

442
00:24:17,669 --> 00:24:14,740
and crew of the Mason men who are there

443
00:24:21,659 --> 00:24:17,679
in every flight on remote stations doing

444
00:24:23,730 --> 00:24:21,669
their duty and doing it well it was

445
00:24:25,380 --> 00:24:23,740
these men who cited Gemini 8 on the

446
00:24:28,380 --> 00:24:25,390
parachute and took the crew and

447
00:24:30,419 --> 00:24:28,390
spacecraft safely aboard the Mason at

448
00:24:32,580 --> 00:24:30,429
that point we knew that the long months

449
00:24:34,799 --> 00:24:32,590
of training and the many simulations and

450
00:24:39,210 --> 00:24:34,809
the close interplay between NASA and the

451
00:24:42,000 --> 00:24:39,220
Department of Defense were sound the

452
00:24:44,190 --> 00:24:42,010
mission is ended the control room is

453
00:24:47,399 --> 00:24:44,200
empty but it will soon fill up again as

454
00:24:49,620 --> 00:24:47,409
simulations begin for the next flight we

455
00:24:52,620 --> 00:24:49,630
had achieved our first docking in space

456
00:24:54,419 --> 00:24:52,630
we experienced our first orbital abort