



1
00:00:20,999 --> 00:00:17,880
let's head up on the stool there I'm

2
00:00:23,339 --> 00:00:21,009
here put on the shirts jackets we need

3
00:00:26,100 --> 00:00:23,349
the jacket zip really why don't we zip

4
00:01:02,099 --> 00:00:26,110
them up goes out right I haven't asked

5
00:01:02,109 --> 00:01:08,310
mr.

6
00:02:51,870 --> 00:01:10,590
be careful when you're adjusting the

7
00:02:51,880 --> 00:02:55,550
in the bags like this

8
00:03:01,590 --> 00:02:58,590
screw this thing in a lot of mana please

9
00:03:04,650 --> 00:03:01,600
it's good in you know it'll open up this

10
00:04:53,980 --> 00:03:04,660
valve go ahead and plate it more patient

11
00:04:58,940 --> 00:04:56,240
control together and rope bag that's

12
00:05:01,700 --> 00:04:58,950
your Scott you know the Rope bag over

13
00:05:07,920 --> 00:05:01,710

for that's the tether headset to

14

00:05:11,280 --> 00:05:09,720

we've got the line coming in here it's

15

00:05:13,890 --> 00:05:11,290

wrapped around the bar in the middle of

16

00:05:16,050 --> 00:05:13,900

three and a half times and almost any

17

00:05:18,780 --> 00:05:16,060

tension at all on this create enough

18

00:05:20,670 --> 00:05:18,790

friction to confusing stuff before I let

19

00:06:16,620 --> 00:05:20,680

up on it you still go at a fairly slow

20

00:06:16,630 --> 00:06:19,580

55 feet

21

00:06:19,590 --> 00:06:41,970

before

22

00:06:41,980 --> 00:06:46,770

for

23

00:06:46,780 --> 00:07:03,330

35 on a actually drifted after

24

00:07:08,890 --> 00:07:07,540

six day 20 of them you're getting a very

25

00:07:15,360 --> 00:07:08,900

concentrated

26

00:07:21,189 --> 00:07:19,659

Paige read the endorphin but you know

27

00:07:23,379 --> 00:07:21,199

you'll see things at the same kind of

28

00:07:27,500 --> 00:07:23,389

time frame you're seeing it now it is a

29

00:07:34,530 --> 00:07:31,880

no way no way this is dr. Phil this is

30

00:07:51,839 --> 00:07:34,540

my say the bag will look different it's

31

00:07:59,679 --> 00:07:58,379

now where we are now you're going to be

32

00:08:02,080 --> 00:07:59,689

upstairs

33

00:08:06,909 --> 00:08:02,090

of course - OH - that helps out this

34

00:08:11,469 --> 00:08:06,919

camera will here arrow so if right at

35

00:08:17,090 --> 00:08:14,930

everybody everybody could come over if

36

00:08:18,890 --> 00:08:17,100

you want to gently come round yeah I

37

00:08:23,510 --> 00:08:18,900

think that would be nice

38

00:08:26,210 --> 00:08:23,520

I think oh that's gonna be great this

39

00:08:30,260 --> 00:08:26,220

cameras gonna talk about the gallery and

40

00:08:32,589 --> 00:08:30,270

our crews galley the locker the

41

00:08:36,350 --> 00:08:32,599

treadmill where's the other seats

42

00:09:03,860 --> 00:08:36,360

they're all year long and then the crew

43

00:09:03,870 --> 00:10:11,470

hey in here like to be so slippery

44

00:10:18,410 --> 00:10:14,210

good afternoon I'd like to introduce to

45

00:10:20,360 --> 00:10:18,420

you the commander of sts-1

46

00:10:24,940 --> 00:10:20,370

he will introduce the rest of his crew

47

00:10:30,560 --> 00:10:29,090

our fans are over here in the corner as

48

00:10:32,150 --> 00:10:30,570

usual it's a real pleasure to be at the

49

00:10:33,320 --> 00:10:32,160

Cape to come down here and participate

50

00:10:34,250 --> 00:10:33,330

in something that the Cape does better

51
00:10:37,130 --> 00:10:34,260
than anybody in the world and that's

52
00:10:38,540 --> 00:10:37,140
launching space vehicles it's a it's a

53
00:10:40,579 --> 00:10:38,550
great pleasure for us to be here we

54
00:10:41,870 --> 00:10:40,589
expect weather like this on Sunday when

55
00:10:43,670 --> 00:10:41,880
we launch and you all do the best to

56
00:10:44,930 --> 00:10:43,680
keep it that way if you would and what

57
00:10:46,010 --> 00:10:44,940
I'll do is introduce the next crew

58
00:10:47,810 --> 00:10:46,020
member we'll just go down the line with

59
00:10:50,210 --> 00:10:47,820
everybody say a little a little bit as

60
00:10:51,829 --> 00:10:50,220
we go and I'd like to introduce my pilot

61
00:10:53,450 --> 00:10:51,839
Mike Smith who's one of the best fliers

62
00:10:55,160 --> 00:10:53,460
in the world and he's great to have him

63
00:11:00,320 --> 00:10:55,170

in the shuttle and I'm glad to have him

64

00:11:03,260 --> 00:11:00,330

aboard as a pilot so here's Mike thanks

65

00:11:06,800 --> 00:11:03,270

dick let me echo what dick said about

66

00:11:08,570 --> 00:11:06,810

it's good to be down here and to be

67

00:11:10,760 --> 00:11:08,580

flying a vehicle that we know a lot of

68

00:11:11,840 --> 00:11:10,770

folks down here worked very hard on we

69

00:11:14,449 --> 00:11:11,850

understand it's ready to go and we're

70

00:11:16,820 --> 00:11:14,459

looking forward to going to fly I'm one

71

00:11:19,130 --> 00:11:16,830

of the three people on board who's this

72

00:11:22,070 --> 00:11:19,140

and it will be my first time to fly

73

00:11:23,720 --> 00:11:22,080

christa mcauliffe and Greg Jarvis well

74

00:11:25,760 --> 00:11:23,730

it will also be their first time we're

75

00:11:27,880 --> 00:11:25,770

just all looking forward to getting on

76
00:11:31,310 --> 00:11:27,890
over them getting the secret handshake

77
00:11:34,010 --> 00:11:31,320
I'd like to introduce now Judy Resnik

78
00:11:35,810 --> 00:11:34,020
she's a she's our center seater and I

79
00:11:43,640 --> 00:11:35,820
keep sticking hi honest on the system

80
00:11:47,829 --> 00:11:43,650
problems well I - I'm glad to be here

81
00:11:50,660 --> 00:11:47,839
one more time and I am hoping that the

82
00:11:52,820 --> 00:11:50,670
the affliction that Steve Hawley had

83
00:11:54,949 --> 00:11:52,830
from the 41 D mission mission

84
00:11:56,780 --> 00:11:54,959
specialists of the delays hasn't rubbed

85
00:11:59,060 --> 00:11:56,790
off on me and I think the guys behind me

86
00:12:02,600 --> 00:11:59,070
are hoping that it hasn't also otherwise

87
00:12:09,650 --> 00:12:02,610
they might throw me off the flight and I

88
00:12:14,400 --> 00:12:12,270

let me say that it's really a pleasure

89

00:12:17,100 --> 00:12:14,410

to be back looking forward to going to

90

00:12:18,300 --> 00:12:17,110

fly this one I think we got some real

91

00:12:21,150 --> 00:12:18,310

interesting payloads

92

00:12:22,890 --> 00:12:21,160

the mission is a great mission we're

93

00:12:25,680 --> 00:12:22,900

looking forward to it and I think we're

94

00:12:32,370 --> 00:12:25,690

ready to go fly thanks for being out

95

00:12:35,550 --> 00:12:32,380

here today I forgot the one thing I was

96

00:12:38,130 --> 00:12:35,560

supposed to do let me introduce Ron

97

00:12:40,520 --> 00:12:38,140

McNair was going to be doing a lot of

98

00:12:43,170 --> 00:12:40,530

work with the Spartan Halley mission and

99

00:12:44,310 --> 00:12:43,180

carrying on a lot of the experiments

100

00:12:51,650 --> 00:12:44,320

that will be going on in the crew

101
00:12:54,870 --> 00:12:51,660
compartment again I like to echo the

102
00:12:56,910 --> 00:12:54,880
pain of my crew members that we look

103
00:12:58,800 --> 00:12:56,920
forward to returning launching from the

104
00:13:00,810 --> 00:12:58,810
cake first of all and returning here a

105
00:13:02,940 --> 00:13:00,820
few days later I had the privilege of

106
00:13:05,040 --> 00:13:02,950
being a part of the crew a couple years

107
00:13:07,290 --> 00:13:05,050
ago that made the first landing here at

108
00:13:09,060 --> 00:13:07,300
the cake and I intend to be a part of

109
00:13:12,090 --> 00:13:09,070
the crew to make the first return

110
00:13:16,530 --> 00:13:12,100
landing to the cake in about a week at

111
00:13:18,720 --> 00:13:16,540
this time I like to introduce you or to

112
00:13:20,400 --> 00:13:18,730
a perhaps the person you came to see and

113
00:13:26,490 --> 00:13:20,410

that's Christa McAuliffe our payload

114

00:13:27,930 --> 00:13:26,500

specialist teachers faith well I am so

115

00:13:30,390 --> 00:13:27,940

excited to be here

116

00:13:32,610 --> 00:13:30,400

we watched Columbia go over the Houston

117

00:13:35,100 --> 00:13:32,620

area this morning and that was a thrill

118

00:13:38,190 --> 00:13:35,110

I don't think any teacher has ever been

119

00:13:40,200 --> 00:13:38,200

more ready to have two lessons in my

120

00:13:42,180 --> 00:13:40,210

life I've been preparing these in

121

00:13:44,880 --> 00:13:42,190

September and I just hope everybody

122

00:13:47,520 --> 00:13:44,890

Tunes in on day four now to watch the

123

00:13:49,500 --> 00:13:47,530

teacher teaching from space I'd like to

124

00:13:52,080 --> 00:13:49,510

introduce to you someone who's going to

125

00:13:56,430 --> 00:13:52,090

be in my second lesson Greg Jarvis the

126

00:14:04,510 --> 00:13:59,050

it's a great pleasure finally to get

127

00:14:06,370 --> 00:14:04,520

this far I'm very proud to be part of

128

00:14:08,260 --> 00:14:06,380

the program at NASA and use the put

129

00:14:09,760 --> 00:14:08,270

together and I'm glad to be representing

130

00:14:11,950 --> 00:14:09,770

the use aircraft companies their payload

131

00:14:13,630 --> 00:14:11,960

specialist without any further ado I'll

132

00:14:14,020 --> 00:14:13,640

log get off the stage you can all get

133

00:14:24,560 --> 00:14:14,030

going

134

00:14:31,940 --> 00:14:28,930

and then we have commander dick Scobee

135

00:14:33,800 --> 00:14:31,950

sitting beside pilot Mike Smith in front

136

00:14:36,260 --> 00:14:33,810

of the traditional cake featuring

137

00:14:38,600 --> 00:14:36,270

Halley's Comet and a apple for the

138

00:14:40,670 --> 00:14:38,610

teacher Judy Resnik on the Left mission

139

00:14:43,520 --> 00:14:40,680

specialist along with Ron McNair and

140

00:14:47,420 --> 00:14:43,530

payload specialist Greg Jarvis all

141

00:14:51,220 --> 00:14:47,430

members of the 51l crew and they're

142

00:14:57,230 --> 00:14:52,720

there they are

143

00:14:58,880 --> 00:14:57,240

the crew of Mission 51l including

144

00:15:00,470 --> 00:14:58,890

teacher and space participant and the

145

00:15:05,360 --> 00:15:00,480

first private citizen to fly in space

146

00:15:08,390 --> 00:15:05,370

Christa McAuliffe this is shuttle launch

147

00:15:10,280 --> 00:15:08,400

control at t-minus two minutes 20 mu 2

148

00:15:12,710 --> 00:15:10,290

hours 28 minutes and Counting here comes

149

00:15:15,440 --> 00:15:12,720

the 51 L flight crew boarding the

150

00:15:18,410 --> 00:15:15,450

elevator for the second time in two days

151
00:15:21,200 --> 00:15:18,420
ready to depart the ONC building for the

152
00:15:25,400 --> 00:15:21,210
launch pad and they'll ride down the

153
00:15:29,320 --> 00:15:25,410
three floors to the main level where

154
00:15:31,460 --> 00:15:29,330
they will lost exit the ONC building

155
00:15:36,100 --> 00:15:31,470
traditionally met by the members of the

156
00:15:39,560 --> 00:15:36,110
media who are standing by waiting to

157
00:15:40,910 --> 00:15:39,570
document and this is the work crew here

158
00:15:45,230 --> 00:15:40,920
that

159
00:15:47,530 --> 00:15:45,240
very active in preparing the 511 mission

160
00:15:50,090 --> 00:15:47,540
as the operations and check-out building

161
00:15:53,840 --> 00:15:50,100
the payloads which include a tigris

162
00:15:59,880 --> 00:15:53,850
satellite trot and Hali experiment and

163
00:16:06,960 --> 00:16:04,630

Ron McNair pilot Mike Smith followed by

164

00:16:09,940 --> 00:16:06,970

Christa McAuliffe featuring faith

165

00:16:15,520 --> 00:16:09,950

Ellison Onizuka and payload specialist

166

00:16:18,580 --> 00:16:15,530

Greg Jarvis big smiles today confidently

167

00:16:21,750 --> 00:16:18,590

getting into the van here going below to

168

00:16:23,110 --> 00:16:21,760

that Pat and attempt of second try

169

00:16:34,540 --> 00:16:23,120

seconds long

170

00:16:40,300 --> 00:16:37,570

and the first crew member

171

00:16:44,170 --> 00:16:40,310

commander dick Scobee now in the white

172

00:16:52,900 --> 00:16:44,180

room taking off his jacket along with

173

00:16:52,910 --> 00:16:57,540

t-minus 15 seconds

174

00:17:07,090 --> 00:17:03,340

Jimenez Callan man eight seven six we

175

00:17:12,220 --> 00:17:07,100

have main engine start four three two

176

00:17:14,320 --> 00:17:12,230

one and liftoff liftoff of the 25th

177

00:17:23,250 --> 00:17:14,330

space shuttle mission and it has cleared

178

00:17:36,360 --> 00:17:27,220

good roll program confirmed challenger

179

00:17:42,820 --> 00:17:38,560

engines beginning throttling down now

180

00:17:47,470 --> 00:17:42,830

have 94% normal models for most of the

181

00:17:55,270 --> 00:17:47,480

flight 104 percent will throttle down to

182

00:17:57,160 --> 00:17:55,280

65% shortly engines at 65% three engines

183

00:18:03,610 --> 00:17:57,170

running normally three good fuel cells

184

00:18:05,080 --> 00:18:03,620

triggered ap use velocity 2257 feet per

185

00:18:06,820 --> 00:18:05,090

second altitude four point three

186

00:18:13,870 --> 00:18:06,830

nautical miles downrange distance three

187

00:18:15,550 --> 00:18:13,880

nautical miles engines throttling up

188

00:18:24,820 --> 00:18:15,560

three inches now 104 percent of

189

00:18:27,040 --> 00:18:24,830

Challenger go at throttle up minute 15

190

00:18:28,360 --> 00:18:27,050

seconds velocity 2,900 feet per second

191

00:18:44,960 --> 00:18:28,370

altitude nautical miles downrange

192

00:18:50,520 --> 00:18:46,860

flight controllers here looking very

193

00:18:57,000 --> 00:18:50,530

carefully at the situation obviously a

194

00:18:57,010 --> 00:19:05,040

we have no downlink

195

00:19:26,210 --> 00:19:07,900

this is Mission Control Houston we have

196

00:19:30,639 --> 00:19:27,919

the boys from the flight dynamics

197

00:19:34,460 --> 00:19:30,649

officer indicate that the vehicle

198

00:19:37,070 --> 00:19:34,470

apparently exploded and that impact in

199

00:19:39,110 --> 00:19:37,080

the water have a point approximately

200

00:19:42,289 --> 00:19:39,120

twenty eight point six four degrees

201
00:19:52,269 --> 00:19:42,299
north eighty point two to eight degrees

202
00:19:54,560 --> 00:19:52,279
west we are awaiting verification from

203
00:19:57,649 --> 00:19:54,570
as to the location of the recovery

204
00:20:05,810 --> 00:19:57,659
forces in the field to see what may be

205
00:20:06,200 --> 00:20:05,820
possible at this point that button

206
00:20:13,789 --> 00:20:06,210
termed

207
00:20:20,419 --> 00:20:13,799
liftoff Roger roll Challenger good roll

208
00:20:23,210 --> 00:20:20,429
flight rats good roll three at

209
00:20:26,049 --> 00:20:23,220
sixty-five sixty-five photo t del

210
00:20:44,880 --> 00:20:26,059
confirm struggles thank you

211
00:20:44,890 --> 00:20:48,430
sideout trajectories

212
00:20:54,430 --> 00:20:51,760
oh yeah why'd you say we've had negative

213
00:20:56,160 --> 00:20:54,440

conduct lost apparently okay all

214

00:20:58,000 --> 00:20:56,170

operators watch you data carefully

215

00:21:01,110 --> 00:20:58,010

flight file until they get stuff back

216

00:21:22,060 --> 00:21:01,120

he's on his cue card for import loads

217

00:21:28,990 --> 00:21:24,820

flight righto great RSO reports vehicle

218

00:21:45,930 --> 00:21:32,440

copy Saito can we get any reports from

219

00:22:15,360 --> 00:21:48,240

right Oh fight go ahead to the RSO does

220

00:22:20,340 --> 00:22:18,090

okay everybody stay off the telephones

221

00:22:26,810 --> 00:22:20,350

make sure you maintain all your data

222

00:22:33,230 --> 00:22:30,230

I don't fight go answer are the LSO's on

223

00:22:35,210 --> 00:22:33,240

the loop we can get them get them up on

224

00:22:37,940 --> 00:22:35,220

this loop please oh you're off yes sir

225

00:22:40,970 --> 00:22:37,950

NLCS help okay there any forces headed

226
00:22:43,249 --> 00:22:40,980
out that way yes sir DoD LSO reports

227
00:22:45,379 --> 00:22:43,259
that all SAR forces have been scrambled

228
00:22:47,600 --> 00:22:45,389
and they are annoying a large-scale

229
00:22:52,100 --> 00:22:47,610
search effort was initiated to recover

230
00:22:55,460 --> 00:22:52,110
the space shuttle debris 22 ships six

231
00:22:59,889 --> 00:22:55,470
underwater search vessels and 33

232
00:23:09,799 --> 00:23:02,600
the pieces recovered initially were

233
00:23:11,960 --> 00:23:09,809
those found floating on the surface the

234
00:23:16,460 --> 00:23:11,970
submarine fleet was used to locate and

235
00:23:18,379 --> 00:23:16,470
inspect underwater debris objects

236
00:23:28,369 --> 00:23:18,389
identified as being important to the

237
00:23:30,139 --> 00:23:28,379
investigation were retrieved 50% of the

238
00:24:29,240 --> 00:23:30,149

entire vehicle was recovered in the

239

00:24:35,940 --> 00:24:32,820

papi will advise when we have any

240

00:24:40,320 --> 00:24:35,950

further four to nine I'll come around to

241

00:24:51,169 --> 00:24:40,330

zero zero zero 1800 rpm okay we're gonna

242

00:24:51,179 --> 00:25:03,510

steady Bob I got you got it

243

00:25:03,520 --> 00:26:49,830

no idea

244

00:26:55,690 --> 00:26:52,960

we have a video release of the way in

245

00:26:58,180 --> 00:26:55,700

which the fragments from the STS 51I

246

00:27:01,030 --> 00:26:58,190

accident are being brought back and

247

00:27:03,730 --> 00:27:01,040

after being cleaned up are being laid

248

00:27:06,160 --> 00:27:03,740

out on a grid in the KSC logistics

249

00:27:08,920 --> 00:27:06,170

facility you'll notice that they're

250

00:27:11,650 --> 00:27:08,930

being placed on a grid drawn on the

251
00:27:13,690 --> 00:27:11,660
floor in conformance with the National

252
00:27:16,840 --> 00:27:13,700
Transportation Safety Board's normal

253
00:27:19,930 --> 00:27:16,850
procedures the view shown on the video

254
00:27:23,260 --> 00:27:19,940
tape is taken looking from a corner of

255
00:27:25,510 --> 00:27:23,270
the facility along the port side of the

256
00:28:32,080 --> 00:27:25,520
left side of the orbiter from the tail

257
00:28:32,090 --> 00:28:51,190
you

258
00:28:58,910 --> 00:28:54,230
we come together today to mourn the loss

259
00:29:02,600 --> 00:28:58,920
of seven brave Americans to share the

260
00:29:05,300 --> 00:29:02,610
grief that we all feel and perhaps in

261
00:29:09,170 --> 00:29:05,310
that sharing to find the strength to

262
00:29:13,010 --> 00:29:09,180
bear our sorrow and the courage to look

263
00:29:16,160 --> 00:29:13,020

for the seeds of hope our nation's loss

264

00:29:19,190 --> 00:29:16,170

is first a profound personal loss to the

265

00:29:23,180 --> 00:29:19,200

family the friends and the loved ones of

266

00:29:27,440 --> 00:29:23,190

our shuttle astronauts the best we can

267

00:29:30,380 --> 00:29:27,450

do is remember our seven astronauts our

268

00:29:34,820 --> 00:29:30,390

Challenger seven remember them as they

269

00:29:37,910 --> 00:29:34,830

lived bringing life and love and joy to

270

00:29:42,710 --> 00:29:37,920

those who knew them and pride to a

271

00:29:45,860 --> 00:29:42,720

nation they came from all parts of this

272

00:29:50,140 --> 00:29:45,870

great country from South Carolina to

273

00:29:53,900 --> 00:29:50,150

Washington State Ohio to Mohawk New York

274

00:29:58,010 --> 00:29:53,910

Hawaii to North Carolina to Concord New

275

00:29:59,960 --> 00:29:58,020

Hampshire they were so different yet in

276

00:30:03,550 --> 00:29:59,970

their mission their quest they held so

277

00:30:06,410 --> 00:30:03,560

much in common the future is not free

278

00:30:09,650 --> 00:30:06,420

the story of all human progress is one

279

00:30:12,530 --> 00:30:09,660

of a struggle against all odds we

280

00:30:14,810 --> 00:30:12,540

learned again that this America which

281

00:30:16,180 --> 00:30:14,820

Abraham Lincoln called the last best

282

00:30:19,720 --> 00:30:16,190

hope of man on earth

283

00:30:23,120 --> 00:30:19,730

was built on heroism and noble sacrifice

284

00:30:26,210 --> 00:30:23,130

it was built by men and women like our

285

00:30:29,960 --> 00:30:26,220

seventh star voyagers who answered a

286

00:30:32,420 --> 00:30:29,970

call beyond duty who gave more than was

287

00:30:37,370 --> 00:30:32,430

expected or required and who gave it

288

00:30:40,610 --> 00:30:37,380

little thought of worldly reward today

289

00:30:43,820 --> 00:30:40,620

the frontier is space and the boundaries

290

00:30:46,940 --> 00:30:43,830

of human knowledge sometimes when we

291

00:30:48,740 --> 00:30:46,950

reach for the stars we fall short but we

292

00:30:51,529 --> 00:30:48,750

must pick ourselves up again and press

293

00:30:55,620 --> 00:30:51,539

on despite the pain

294

00:30:58,049 --> 00:30:55,630

our nation is indeed fortunate that we

295

00:31:01,529 --> 00:30:58,059

can still draw on immense reservoirs of

296

00:31:03,830 --> 00:31:01,539

courage character and fortitude that

297

00:31:06,049 --> 00:31:03,840

we're still blessed with heroes like

298

00:31:08,509 --> 00:31:06,059

those of the space shuttle Challenger

299

00:31:14,789 --> 00:31:08,519

dick Mike

300

00:31:17,639 --> 00:31:14,799

Judy L Ron Greg and Kristin your

301

00:31:22,560 --> 00:31:17,649

families in your country mourn your

302

00:31:27,560 --> 00:31:22,570

passing we bid you goodbye we will never