



1  
00:00:10,549 --> 00:00:07,670  
since first arriving at the kennedy

2  
00:00:12,470 --> 00:00:10,559  
space center 25 years ago space shuttle

3  
00:00:14,709 --> 00:00:12,480  
atlantis has made the four mile trek

4  
00:00:16,950 --> 00:00:14,719  
from ksc's vehicle assembly building to

5  
00:00:19,830 --> 00:00:16,960  
its oceanside launch pads more than 30

6  
00:00:24,390 --> 00:00:22,150  
the fourth of nasa's five orbiters

7  
00:00:25,429 --> 00:00:24,400  
atlantis career has not been lacking in

8  
00:00:27,830 --> 00:00:25,439  
firsts

9  
00:00:32,229 --> 00:00:27,840  
among them the first shuttle to deploy a

10  
00:00:37,910 --> 00:00:33,910  
the first shuttle to dock to a space

11  
00:00:42,310 --> 00:00:39,590  
and the first shuttle to fly with a

12  
00:00:44,389 --> 00:00:42,320  
glass cockpit

13  
00:00:46,869 --> 00:00:44,399

and now atlantis will lead the shuttle

14

00:00:48,869 --> 00:00:46,879

fleet to a final first

15

00:00:51,910 --> 00:00:48,879

as it becomes the first space shuttle to

16

00:00:54,630 --> 00:00:51,920

complete its scheduled flights

17

00:01:19,590 --> 00:00:54,640

atlantis will return to earth to stay

18

00:01:23,749 --> 00:01:21,590

the array of missions atlantis has flown

19

00:01:26,149 --> 00:01:23,759

is as wide as the oceans once sailed by

20

00:01:30,710 --> 00:01:26,159

the 20th century research vessel for

21

00:01:36,310 --> 00:01:32,789

atlantis has flown missions for national

22

00:01:41,429 --> 00:01:36,320

security for interplanetary exploration

23

00:01:47,950 --> 00:01:44,789

on october 3rd 1985 atlantis launched

24

00:01:49,830 --> 00:01:47,960

from pad 39a on its maiden voyage

25

00:01:53,670 --> 00:01:49,840

sts-51j

26

00:01:55,830 --> 00:01:53,680

ignition and liftoff liftoff of atlanta

27

00:01:58,310 --> 00:01:55,840

a new orbiter joins the shuttle fleet

28

00:02:01,109 --> 00:01:58,320

and it has cleared the tower

29

00:02:02,950 --> 00:02:01,119

commanded by shuttle veteran carol bobco

30

00:02:04,870 --> 00:02:02,960

the classified department of defense

31

00:02:07,990 --> 00:02:04,880

flight was the first of five pentagon

32

00:02:09,669 --> 00:02:08,000

missions atlantis completed

33

00:02:12,150 --> 00:02:09,679

after traveling more than a million

34

00:02:14,390 --> 00:02:12,160

miles atlantis landed at edwards air

35

00:02:19,190 --> 00:02:14,400

force base just four days later on

36

00:02:23,589 --> 00:02:21,190

later that year on just its second

37

00:02:25,190 --> 00:02:23,599

flight atlanta set a shuttle record for

38

00:02:26,229 --> 00:02:25,200

the least amount of time between

39

00:02:29,110 --> 00:02:26,239  
missions

40

00:02:31,750 --> 00:02:29,120  
on november 26th the orbiter headed back

41

00:02:33,830 --> 00:02:31,760  
to space on sts-61b

42

00:02:35,589 --> 00:02:33,840  
just 50 days after completing its

43

00:02:37,350 --> 00:02:35,599  
previous flight

44

00:02:38,949 --> 00:02:37,360  
making his first space flight on that

45

00:02:41,509 --> 00:02:38,959  
crew was mission specialist and

46

00:02:43,589 --> 00:02:41,519  
spacewalker jerry ross whose seven

47

00:02:45,670 --> 00:02:43,599  
career space flights including five on

48

00:02:48,309 --> 00:02:45,680  
board atlantis would set a record

49

00:02:50,150 --> 00:02:48,319  
matched by just one other astronaut

50

00:02:52,790 --> 00:02:50,160  
three communication satellites were

51  
00:02:55,430 --> 00:02:52,800  
deployed during the flight

52  
00:02:57,350 --> 00:02:55,440  
during two spacewalks ross and woody

53  
00:02:59,350 --> 00:02:57,360  
spring also conducted a construction

54  
00:03:01,030 --> 00:02:59,360  
experiment to demonstrate the

55  
00:03:02,869 --> 00:03:01,040  
feasibility of assembling large

56  
00:03:04,949 --> 00:03:02,879  
structures in space

57  
00:03:07,030 --> 00:03:04,959  
the successful experiment was an early

58  
00:03:17,110 --> 00:03:07,040  
proving ground for the engineering and

59  
00:03:23,030 --> 00:03:19,110  
during the next three years atlantis

60  
00:03:28,149 --> 00:03:24,789  
the tragic loss of space shuttle

61  
00:03:30,229 --> 00:03:28,159  
challenger and its crew in january 1986

62  
00:03:32,229 --> 00:03:30,239  
prompted the grounding of atlantis and

63  
00:03:43,589 --> 00:03:32,239

the rest of the shuttle fleet until

64

00:03:48,630 --> 00:03:46,710

in 1989 atlantis was back in action

65

00:03:58,390 --> 00:03:48,640

completing two missions to provide a

66

00:04:03,910 --> 00:04:01,110

the primary payload for sts-30 in may of

67

00:04:06,149 --> 00:04:03,920

that year was the magellan spacecraft

68

00:04:07,429 --> 00:04:06,159

designed to capture radar images of

69

00:04:09,110 --> 00:04:07,439

venus

70

00:04:11,110 --> 00:04:09,120

magellan which was the first

71

00:04:13,509 --> 00:04:11,120

interplanetary spacecraft launched from

72

00:04:15,990 --> 00:04:13,519

a space shuttle eased into orbit around

73

00:04:18,789 --> 00:04:16,000

venus in august 1990

74

00:04:24,710 --> 00:04:18,799

mapping 98 of the planet before its

75

00:04:30,230 --> 00:04:28,230

five months later on sts-34 atlantis was

76  
00:04:32,710 --> 00:04:30,240  
back in space for the deployment of the

77  
00:04:33,830 --> 00:04:32,720  
galileo spacecraft on its voyage to

78  
00:04:36,230 --> 00:04:33,840  
jupiter

79  
00:04:38,710 --> 00:04:36,240  
it took six years for galileo to arrive

80  
00:04:40,710 --> 00:04:38,720  
at the solar system's largest planet and

81  
00:04:43,030 --> 00:04:40,720  
when it did it became the first

82  
00:04:44,469 --> 00:04:43,040  
spacecraft to both orbit and release a

83  
00:04:46,950 --> 00:04:44,479  
probe to penetrate through the

84  
00:04:49,030 --> 00:04:46,960  
atmosphere of an outer planet

85  
00:04:54,950 --> 00:04:49,040  
it collected data on jupiter and its

86  
00:04:58,629 --> 00:04:56,390  
and flight through this is years

87  
00:04:59,590 --> 00:04:58,639  
close and lock your risers initiate 02

88  
00:05:01,909 --> 00:04:59,600

flow

89

00:05:04,230 --> 00:05:01,919

god speed on the 100th u.s manned

90

00:05:07,189 --> 00:05:04,240

mission in space

91

00:05:11,270 --> 00:05:07,199

flight train companies advisors in o2

92

00:05:16,870 --> 00:05:14,790

on june 27 1995 atlantis embarked on a

93

00:05:22,870 --> 00:05:16,880

mission which significantly expanded the

94

00:05:26,710 --> 00:05:24,550

and liftoff of the space shuttle

95

00:05:28,629 --> 00:05:26,720

atlantis on a mission that will herald a

96

00:05:30,150 --> 00:05:28,639

new day of international cooperation in

97

00:05:32,510 --> 00:05:30,160

space

98

00:05:34,950 --> 00:05:32,520

houston now controlling

99

00:05:36,629 --> 00:05:34,960

sts-71 was the third mission of the

100

00:05:38,550 --> 00:05:36,639

shuttle mir program

101  
00:05:41,029 --> 00:05:38,560  
but atlantis whose crew included

102  
00:05:43,510 --> 00:05:41,039  
cosmonauts anatoly seloviev and nikolai

103  
00:05:46,950 --> 00:05:43,520  
budaran became the first shuttle to dock

104  
00:05:49,189 --> 00:05:46,960  
with the russian space station mir

105  
00:05:50,629 --> 00:05:49,199  
after 20 years our spacecraft are docked

106  
00:05:53,029 --> 00:05:50,639  
in orbit again

107  
00:05:55,029 --> 00:05:53,039  
our new era of space exploration has

108  
00:05:57,270 --> 00:05:55,039  
begun

109  
00:06:00,150 --> 00:05:57,280  
the crews conducted a host of biomedical

110  
00:06:01,830 --> 00:06:00,160  
investigations and transferred equipment

111  
00:06:03,670 --> 00:06:01,840  
the mission also marked the first

112  
00:06:05,029 --> 00:06:03,680  
on-orbit exchange of shuttle crew

113  
00:06:07,590 --> 00:06:05,039

members

114

00:06:10,309 --> 00:06:07,600

astronaut norm thagard and cosmonauts

115

00:06:12,309 --> 00:06:10,319

vladimir dujourov and gennady strakalov

116

00:06:14,469 --> 00:06:12,319

who flew to mir on a russian soyuz

117

00:06:15,749 --> 00:06:14,479

vehicle returned to earth on board

118

00:06:18,950 --> 00:06:15,759

atlantis

119

00:06:21,189 --> 00:06:18,960

in a complex orbital ballet seloviev and

120

00:06:23,749 --> 00:06:21,199

budaran captured these images from their

121

00:06:26,629 --> 00:06:23,759

russian soyuz which undocked just

122

00:06:29,270 --> 00:06:26,639

minutes before atlantis departed mir

123

00:06:31,110 --> 00:06:29,280

the union of atlantis and mir created

124

00:06:39,029 --> 00:06:31,120

the largest spacecraft to orbit the

125

00:06:42,870 --> 00:06:40,710

and it's just about time for the spirit

126  
00:06:48,550 --> 00:06:42,880  
of 76 to wake up the space show so have

127  
00:06:52,390 --> 00:06:49,670  
one

128  
00:06:54,230 --> 00:06:52,400  
booster ignition and liftoff of atlantis

129  
00:06:56,550 --> 00:06:54,240  
on the third shuttle mirror docking

130  
00:06:58,710 --> 00:06:56,560  
flight

131  
00:07:01,990 --> 00:06:58,720  
atlantis visited mir on its next six

132  
00:07:05,350 --> 00:07:02,000  
flights the crew of the sts-76 mission

133  
00:07:07,350 --> 00:07:05,360  
in march of 1996 included shannon lucid

134  
00:07:08,950 --> 00:07:07,360  
who became the first american woman to

135  
00:07:12,390 --> 00:07:08,960  
live on mir

136  
00:07:13,990 --> 00:07:12,400  
her 188-day stay on board the station

137  
00:07:16,550 --> 00:07:14,000  
set an american long-duration

138  
00:07:18,950 --> 00:07:16,560

spaceflight record at the time a record

139

00:07:21,350 --> 00:07:18,960

for most days in space by a woman and

140

00:07:23,830 --> 00:07:21,360

initiated a continuous u.s presence on

141

00:07:25,830 --> 00:07:23,840

mir for the next two years

142

00:07:27,909 --> 00:07:25,840

and astronauts linda godwin and rich

143

00:07:30,550 --> 00:07:27,919

clifford completed the first u.s

144

00:07:32,309 --> 00:07:30,560

spacewalk around two dock vehicles while

145

00:07:34,790 --> 00:07:32,319

wearing jet backpacks known as

146

00:07:35,990 --> 00:07:34,800

simplified eight for eva rescue or

147

00:07:37,990 --> 00:07:36,000

safers

148

00:07:39,749 --> 00:07:38,000

in the spacewalk they attached four

149

00:07:43,189 --> 00:07:39,759

environmental payloads to the mirror's

150

00:07:46,710 --> 00:07:45,110

atlantis flew to mere three times in

151  
00:07:49,510 --> 00:07:46,720  
1997

152  
00:07:51,189 --> 00:07:49,520  
but the last of those flights sts-86 was

153  
00:07:53,350 --> 00:07:51,199  
in question up until its scheduled

154  
00:07:55,589 --> 00:07:53,360  
launch in september

155  
00:07:57,749 --> 00:07:55,599  
safety concerns arose after a progress

156  
00:07:59,749 --> 00:07:57,759  
resupply ship collided with mir a few

157  
00:08:01,510 --> 00:07:59,759  
months earlier during an attempted

158  
00:08:03,589 --> 00:08:01,520  
manual docking

159  
00:08:05,830 --> 00:08:03,599  
the collision damaged the mere specter

160  
00:08:07,430 --> 00:08:05,840  
module which had to be sealed off from

161  
00:08:09,110 --> 00:08:07,440  
the rest of the station because it was

162  
00:08:10,950 --> 00:08:09,120  
losing pressure

163  
00:08:13,510 --> 00:08:10,960

on the day atlantis was scheduled to

164

00:08:15,589 --> 00:08:13,520

launch nasa administrator dan golden

165

00:08:16,869 --> 00:08:15,599

summarized his decision to proceed with

166

00:08:19,110 --> 00:08:16,879

the flight

167

00:08:21,589 --> 00:08:19,120

not only is the mir station deemed to be

168

00:08:23,670 --> 00:08:21,599

satisfac a satisfactory life support

169

00:08:26,230 --> 00:08:23,680

platform at this time

170

00:08:28,790 --> 00:08:26,240

but it is anticipated that significant

171

00:08:30,790 --> 00:08:28,800

operational and scientific experience is

172

00:08:34,310 --> 00:08:30,800

still to be gained through continued

173

00:08:37,589 --> 00:08:36,149

atlantis docked to mirror on september

174

00:08:39,190 --> 00:08:37,599

27th

175

00:08:41,670 --> 00:08:39,200

over the next six days the crews

176  
00:08:43,269 --> 00:08:41,680  
transferred consumables experiments and

177  
00:08:45,829 --> 00:08:43,279  
other materials

178  
00:08:47,910 --> 00:08:45,839  
scott parazynski and vladimir titov also

179  
00:08:49,110 --> 00:08:47,920  
conducted the first joint u.s russian

180  
00:08:51,430 --> 00:08:49,120  
spacewalk

181  
00:08:53,110 --> 00:08:51,440  
installing an external device to help

182  
00:08:55,030 --> 00:08:53,120  
seal the breach inspector from the

183  
00:08:57,269 --> 00:08:55,040  
vacuum of space

184  
00:08:59,750 --> 00:08:57,279  
the continuous u.s presence on mir was

185  
00:09:02,389 --> 00:08:59,760  
preserved as astronaut dave wolf joined

186  
00:09:07,670 --> 00:09:02,399  
the mere crew replacing mike foale who

187  
00:09:12,389 --> 00:09:10,710  
in 2000 almost two years after zarya the

188  
00:09:13,829 --> 00:09:12,399

first component of the international

189

00:09:16,550 --> 00:09:13,839

space station was launched from

190

00:09:18,070 --> 00:09:16,560

kazakhstan atlantis completed a pair of

191

00:09:20,550 --> 00:09:18,080

missions that were crucial to the

192

00:09:24,389 --> 00:09:20,560

development of the iss

193

00:09:26,870 --> 00:09:24,399

during sts-101 in may of 2000 atlantis

194

00:09:29,750 --> 00:09:26,880

astronauts outfitted zarya for the july

195

00:09:31,430 --> 00:09:29,760

arrival of the zvezda service module

196

00:09:34,070 --> 00:09:31,440

essential for sustaining the first

197

00:09:36,389 --> 00:09:34,080

long-duration expedition crew

198

00:09:38,389 --> 00:09:36,399

and on the mission atlantis became the

199

00:09:40,949 --> 00:09:38,399

first shuttle to employ the new advanced

200

00:09:43,190 --> 00:09:40,959

instrumentation display system known as

201  
00:09:47,030 --> 00:09:43,200  
the glass cockpit

202  
00:09:49,430 --> 00:09:47,040  
on sts-106 in september 2000 atlantis

203  
00:09:51,590 --> 00:09:49,440  
delivered supplies and zvezda was open

204  
00:09:53,910 --> 00:09:51,600  
for business for the first time in

205  
00:09:55,829 --> 00:09:53,920  
preparation for expedition 1 the

206  
00:09:58,150 --> 00:09:55,839  
station's first crew

207  
00:10:00,230 --> 00:09:58,160  
their arrival in november marked the

208  
00:10:05,430 --> 00:10:00,240  
start of a continuous human presence on

209  
00:10:07,350 --> 00:10:06,389  
three

210  
00:10:08,389 --> 00:10:07,360  
two

211  
00:10:10,550 --> 00:10:08,399  
one

212  
00:10:13,110 --> 00:10:10,560  
zero and liftoff of space shuttle

213  
00:10:16,389 --> 00:10:13,120

atlantis with destiny atlantis returned

214

00:10:20,310 --> 00:10:16,399

to the station in february 2001 on sts

215

00:10:22,630 --> 00:10:20,320

98 to deliver destiny the 28-foot long

216

00:10:25,269 --> 00:10:22,640

u.s science laboratory and centerpiece

217

00:10:26,790 --> 00:10:25,279

of the u.s segment of the outpost

218

00:10:29,110 --> 00:10:26,800

destiny greatly increased the

219

00:10:30,630 --> 00:10:29,120

pressurized volume of the station and

220

00:10:32,150 --> 00:10:30,640

would be the home for scientific

221

00:10:34,069 --> 00:10:32,160

investigations

222

00:10:36,870 --> 00:10:34,079

living in environmental control of the

223

00:10:39,509 --> 00:10:36,880

u.s segment and robotics control for the

224

00:10:41,670 --> 00:10:39,519

canadarm2 robotic arm

225

00:10:44,470 --> 00:10:41,680

bob kerbeem and tom jones conducted

226  
00:10:46,389 --> 00:10:44,480  
three spacewalks to help install destiny

227  
00:10:48,630 --> 00:10:46,399  
and to relocate pressurized mating

228  
00:10:54,150 --> 00:10:48,640  
adapter number two from unity to a

229  
00:10:59,269 --> 00:10:56,790  
in july 2001 atlantis was part of

230  
00:11:02,150 --> 00:10:59,279  
another station milestone

231  
00:11:05,110 --> 00:11:02,160  
the primary objective on sts-104 was to

232  
00:11:07,269 --> 00:11:05,120  
install the quest airlock the emblematic

233  
00:11:09,269 --> 00:11:07,279  
front door of the station

234  
00:11:11,590 --> 00:11:09,279  
airlock would become the main path to

235  
00:11:13,190 --> 00:11:11,600  
exit and re-enter the station for u.s

236  
00:11:15,350 --> 00:11:13,200  
spacewalks

237  
00:11:17,350 --> 00:11:15,360  
mike gernhardt and jim riley completed

238  
00:11:19,030 --> 00:11:17,360

three spacewalks to help install an

239

00:11:22,389 --> 00:11:19,040

outfit quest

240

00:11:24,630 --> 00:11:22,399

the third eva the first ever using quest

241

00:11:30,150 --> 00:11:24,640

occurred on the 32nd anniversary of

242

00:11:36,230 --> 00:11:32,710

the first mission for atlantis in 2002

243

00:11:37,990 --> 00:11:36,240

was sts-110 in april the fifth

244

00:11:39,910 --> 00:11:38,000

international space station assembly

245

00:11:42,550 --> 00:11:39,920

flight for atlantis

246

00:11:44,470 --> 00:11:42,560

the crew once again included jerry ross

247

00:11:45,750 --> 00:11:44,480

making the last of his seven space

248

00:11:47,269 --> 00:11:45,760

flights

249

00:11:49,509 --> 00:11:47,279

using the shuttle and the station

250

00:11:52,310 --> 00:11:49,519

robotic arms the combined crews

251  
00:11:53,829 --> 00:11:52,320  
installed the s-zero truss segment the

252  
00:11:55,670 --> 00:11:53,839  
central piece of the station's

253  
00:11:58,710 --> 00:11:55,680  
integrated truss structure

254  
00:12:00,230 --> 00:11:58,720  
the backbone of the iss

255  
00:12:02,790 --> 00:12:00,240  
also delivered was the mobile

256  
00:12:04,629 --> 00:12:02,800  
transporter a rail car like device

257  
00:12:12,470 --> 00:12:04,639  
designed to move back and forth along

258  
00:12:17,430 --> 00:12:15,110  
in 2003 the loss of the space shuttle

259  
00:12:19,030 --> 00:12:17,440  
columbia and its crew prompted the

260  
00:12:24,870 --> 00:12:19,040  
grounding of the shuttle fleet for the

261  
00:12:29,030 --> 00:12:26,790  
following two return to flight missions

262  
00:12:31,590 --> 00:12:29,040  
by space shuttle discovery designed to

263  
00:12:34,069 --> 00:12:31,600

test safety procedures atlanta stood

264

00:12:36,470 --> 00:12:34,079

ready to support sts-115

265

00:12:39,030 --> 00:12:36,480

in 2006.

266

00:12:41,430 --> 00:12:39,040

it's been almost four years uh

267

00:12:43,190 --> 00:12:41,440

two return to flight missions

268

00:12:45,350 --> 00:12:43,200

and a tremendous amount of work by

269

00:12:46,790 --> 00:12:45,360

thousands of individuals to get the

270

00:12:48,949 --> 00:12:46,800

shuttle program back to where we are

271

00:12:51,509 --> 00:12:48,959

right now and that's on the verge of

272

00:12:54,790 --> 00:12:51,519

restarting the station assembly sequence

273

00:12:59,150 --> 00:12:56,790

after several weather-related delays

274

00:13:03,590 --> 00:12:59,160

atlantis finally headed skyward for the

275

00:13:05,750 --> 00:13:03,600

sts-115 mission on september 9 2006.

276  
00:13:08,150 --> 00:13:05,760  
the crew conducted three spacewalks to

277  
00:13:10,150 --> 00:13:08,160  
install p3p4

278  
00:13:12,389 --> 00:13:10,160  
critical truss segments on the port side

279  
00:13:14,550 --> 00:13:12,399  
of the station and a pair of solar

280  
00:13:16,470 --> 00:13:14,560  
arrays

281  
00:13:18,710 --> 00:13:16,480  
the mission also marked the milestone

282  
00:13:20,870 --> 00:13:18,720  
for the canadian space agency

283  
00:13:23,350 --> 00:13:20,880  
as astronaut steve mclean became the

284  
00:13:25,670 --> 00:13:23,360  
first canadian astronaut to operate both

285  
00:13:31,069 --> 00:13:25,680  
the station's robotic arm and the mobile

286  
00:13:36,629 --> 00:13:34,790  
sts-117 in june of 2007 closely mirrored

287  
00:13:39,269 --> 00:13:36,639  
sts-115

288  
00:13:40,389 --> 00:13:39,279

with atlantis and its crew delivering s3

289

00:13:42,389 --> 00:13:40,399

s4

290

00:13:45,590 --> 00:13:42,399

the next truss segment for the starboard

291

00:13:47,269 --> 00:13:45,600

side of the station and its solar arrays

292

00:13:49,269 --> 00:13:47,279

the mission also included a space

293

00:13:51,350 --> 00:13:49,279

station crew rotation

294

00:13:54,069 --> 00:13:51,360

astronaut clay anderson became a member

295

00:13:56,670 --> 00:13:54,079

of the station's expedition 15 crew

296

00:13:59,590 --> 00:13:56,680

replacing sunny williams whose

297

00:14:01,430 --> 00:13:59,600

195-day stay on the station set a new

298

00:14:03,829 --> 00:14:01,440

long-duration space flight record for

299

00:14:09,269 --> 00:14:03,839

women eclipsing the record set by

300

00:14:13,750 --> 00:14:12,150

the sole flight for atlantis in 2008 was

301  
00:14:15,350 --> 00:14:13,760  
sts-122

302  
00:14:17,910 --> 00:14:15,360  
in february

303  
00:14:19,910 --> 00:14:17,920  
the highlight of that 13-day mission was

304  
00:14:22,710 --> 00:14:19,920  
the installation of the european space

305  
00:14:25,750 --> 00:14:22,720  
agency's columbus laboratory

306  
00:14:27,829 --> 00:14:25,760  
astronauts rex walheim stan love and han

307  
00:14:30,150 --> 00:14:27,839  
schlegel also replaced several

308  
00:14:39,189 --> 00:14:30,160  
components of station hardware over the

309  
00:14:45,430 --> 00:14:43,430  
and in may 2009 the sts-125 mission

310  
00:14:48,069 --> 00:14:45,440  
became the first flight in nine years

311  
00:14:53,389 --> 00:14:48,079  
for atlantis to a destination other than

312  
00:15:00,870 --> 00:14:56,310  
sts-125 was the final servicing mission

313  
00:15:05,110 --> 00:15:03,110

during the 13-day flight the crew

314

00:15:09,829 --> 00:15:05,120

outfitted hubble with two new imaging

315

00:15:13,269 --> 00:15:09,839

devices the cosmic origins spectrograph

316

00:15:15,990 --> 00:15:13,279

and the wide field planetary camera 3.

317

00:15:17,829 --> 00:15:16,000

over five complex spacewalks the crew

318

00:15:20,230 --> 00:15:17,839

replaced and upgraded many key

319

00:15:22,710 --> 00:15:20,240

components on the venerable telescope

320

00:15:24,310 --> 00:15:22,720

giving hubble a new lease on life and

321

00:15:26,629 --> 00:15:24,320

extending its vision to beyond the

322

00:15:33,749 --> 00:15:26,639

limits of our solar system with the

323

00:15:38,230 --> 00:15:36,629

atlantis has traveled more than 115

324

00:15:39,829 --> 00:15:38,240

million miles in the pursuit of

325

00:15:41,990 --> 00:15:39,839

exploration

326

00:15:44,230 --> 00:15:42,000

its legacy enabled nasa and its

327

00:15:46,310 --> 00:15:44,240

international partners to accomplish

328

00:15:54,629 --> 00:15:46,320

some of the most complex work in human

329

00:15:58,550 --> 00:15:56,230

work that has yielded immeasurable