



GMT 09:15:17:46+
PIC FE-6 00:00:14-
PIC FE-5 00:00:14-
MTV CARGO COMP 03:47:14-

SPACESTATION LIVE



1
00:00:08,710 --> 00:00:07,190
good morning thanks for joining us here

2
00:00:09,990 --> 00:00:08,720
on nasa tv we're live in the

3
00:00:11,749 --> 00:00:10,000
international space station flight

4
00:00:13,749 --> 00:00:11,759
control room and it's my pleasure this

5
00:00:15,430 --> 00:00:13,759
morning to be joined by the new space

6
00:00:17,830 --> 00:00:15,440
station program manager kirk sherman

7
00:00:19,830 --> 00:00:17,840
thanks so much uh great uh it's nice to

8
00:00:21,670 --> 00:00:19,840
be here i'm glad to be here and talk

9
00:00:23,590 --> 00:00:21,680
about the international space station

10
00:00:25,509 --> 00:00:23,600
yeah which you're very familiar with for

11
00:00:27,429 --> 00:00:25,519
seven years you served as the deputy

12
00:00:29,269 --> 00:00:27,439
program manager and then you

13
00:00:30,790 --> 00:00:29,279

went on to take the role as the deputy

14

00:00:32,950 --> 00:00:30,800

center director here at johnson space

15

00:00:34,630 --> 00:00:32,960

center and as of just a few weeks ago

16

00:00:36,150 --> 00:00:34,640

three weeks ago i think you said

17

00:00:37,510 --> 00:00:36,160

you are now serving as the program

18

00:00:39,430 --> 00:00:37,520

manager for the international space

19

00:00:40,869 --> 00:00:39,440

station program can you tell us what

20

00:00:42,069 --> 00:00:40,879

it's like to be working back at the

21

00:00:44,869 --> 00:00:42,079

program level

22

00:00:47,190 --> 00:00:44,879

uh well it's it's uh funny in one sense

23

00:00:49,270 --> 00:00:47,200

it's like coming home i spent actually

24

00:00:50,470 --> 00:00:49,280

um i spent 20 years of my life working

25

00:00:51,670 --> 00:00:50,480

on the international space station

26

00:00:53,830 --> 00:00:51,680

before i left

27

00:00:55,990 --> 00:00:53,840

and so you know the the people that work

28

00:00:57,910 --> 00:00:56,000

here my family my friends

29

00:00:59,910 --> 00:00:57,920

and so i leave for two years and of

30

00:01:02,069 --> 00:00:59,920

course i see people but not on the same

31

00:01:03,670 --> 00:01:02,079

daily basis so coming back was kind of

32

00:01:05,830 --> 00:01:03,680

like coming back home

33

00:01:07,830 --> 00:01:05,840

but it's also somewhat like picking up a

34

00:01:09,270 --> 00:01:07,840

novel and opening up in the middle and

35

00:01:10,630 --> 00:01:09,280

starting to read the story because a lot

36

00:01:12,310 --> 00:01:10,640

of things have happened

37

00:01:14,870 --> 00:01:12,320

everyone else knows what's happened but

38

00:01:17,590 --> 00:01:14,880

me and so uh i have to go catch up with

39

00:01:19,109 --> 00:01:17,600

uh with everyone else um but again since

40

00:01:21,030 --> 00:01:19,119

i have i have a good relationship with

41

00:01:23,830 --> 00:01:21,040

all the people and and i know the the

42

00:01:25,350 --> 00:01:23,840

big picture of the story uh it uh it

43

00:01:27,749 --> 00:01:25,360

hasn't been too terribly difficult so

44

00:01:29,510 --> 00:01:27,759

far it has been a busy time just last

45

00:01:31,270 --> 00:01:29,520

week we had nine crew members on board

46

00:01:32,710 --> 00:01:31,280

the international space station can you

47

00:01:34,390 --> 00:01:32,720

talk about how you think the

48

00:01:35,910 --> 00:01:34,400

international cooperation aspect is

49

00:01:38,550 --> 00:01:35,920

going i think the international

50

00:01:41,670 --> 00:01:38,560

cooperation is still going very well so

51
00:01:42,389 --> 00:01:41,680
it was great to see people uh we had a a

52
00:01:55,670 --> 00:01:42,399
a

53
00:01:57,590 --> 00:01:55,680
represented

54
00:01:59,990 --> 00:01:57,600
here on the ground of course we've had

55
00:02:01,830 --> 00:02:00,000
uh it's not only the the partner members

56
00:02:04,069 --> 00:02:01,840
of the the iss that are involved we've

57
00:02:05,350 --> 00:02:04,079
had 83 different countries represented

58
00:02:07,030 --> 00:02:05,360
doing research on board the

59
00:02:08,469 --> 00:02:07,040
international station 83 across the

60
00:02:11,110 --> 00:02:08,479
world that's quite a bit

61
00:02:12,949 --> 00:02:11,120
and doing thousands of investigations so

62
00:02:14,710 --> 00:02:12,959
um it has been a great international

63
00:02:16,470 --> 00:02:14,720

endeavor and i expect it to continue

64

00:02:18,070 --> 00:02:16,480

that way for years to come

65

00:02:20,070 --> 00:02:18,080

absolutely and speaking of the science

66

00:02:21,750 --> 00:02:20,080

yesterday was a big milestone the midway

67

00:02:23,670 --> 00:02:21,760

point for scott kelly and mikhail

68

00:02:25,270 --> 00:02:23,680

kornenko as they're

69

00:02:27,270 --> 00:02:25,280

making their way through this year-long

70

00:02:28,869 --> 00:02:27,280

mission can you talk us a little bit

71

00:02:30,070 --> 00:02:28,879

about what how you think it's gone the

72

00:02:32,229 --> 00:02:30,080

last six months and what we can look

73

00:02:33,910 --> 00:02:32,239

forward to for the next six well for me

74

00:02:35,910 --> 00:02:33,920

the first six months have blazed by i

75

00:02:37,350 --> 00:02:35,920

wonder how it is with scott and mikhail

76

00:02:39,430 --> 00:02:37,360

but they seem to be doing exceptionally

77

00:02:41,270 --> 00:02:39,440

well they're uh very very productive on

78

00:02:42,390 --> 00:02:41,280

orbit seem to be very happy

79

00:02:44,150 --> 00:02:42,400

um

80

00:02:45,990 --> 00:02:44,160

and and the work they're doing really is

81

00:02:47,270 --> 00:02:46,000

is very important right the the things

82

00:02:49,910 --> 00:02:47,280

that they're doing

83

00:02:51,509 --> 00:02:49,920

we we've had um crew members who stayed

84

00:02:53,750 --> 00:02:51,519

about 200 days is about the longest

85

00:02:55,430 --> 00:02:53,760

we've ever had so here very very shortly

86

00:02:57,830 --> 00:02:55,440

they'll be the longest staying crew

87

00:02:59,110 --> 00:02:57,840

members ever on iss and the amount of

88

00:03:00,710 --> 00:02:59,120

data and the quality of the day that

89

00:03:02,710 --> 00:03:00,720

we're collecting will be groundbreaking

90

00:03:04,630 --> 00:03:02,720

so be really great to see what happens

91

00:03:06,229 --> 00:03:04,640

to the human body during that long

92

00:03:07,990 --> 00:03:06,239

period of time we have a number of

93

00:03:09,190 --> 00:03:08,000

experiments uh earlier you were talking

94

00:03:11,670 --> 00:03:09,200

about fluid shifts i know they just

95

00:03:13,589 --> 00:03:11,680

participated in it this week looking at

96

00:03:15,190 --> 00:03:13,599

what happens as fluid shifts in the body

97

00:03:17,030 --> 00:03:15,200

when you go up in in microgravity

98

00:03:18,550 --> 00:03:17,040

environment

99

00:03:22,070 --> 00:03:18,560

there's also a twin study looking at

100

00:03:23,750 --> 00:03:22,080

what happens uh happens with uh with uh

101

00:03:24,869 --> 00:03:23,760

scott's twin brother here on the earth

102

00:03:26,630 --> 00:03:24,879

and seeing what the difference is

103

00:03:28,949 --> 00:03:26,640

between a human body on the ground

104

00:03:30,630 --> 00:03:28,959

versus uh out in space so all those

105

00:03:32,070 --> 00:03:30,640

things are really important because we

106

00:03:34,070 --> 00:03:32,080

ultimately want to send humans off the

107

00:03:35,990 --> 00:03:34,080

planet for long for long durations and

108

00:03:38,550 --> 00:03:36,000

to get to the next planet is going to be

109

00:03:40,949 --> 00:03:38,560

years so learning what we can on iss is

110

00:03:42,949 --> 00:03:40,959

a great pathfinder for putting humans uh

111

00:03:45,750 --> 00:03:42,959

on mars absolutely the research of

112

00:03:46,630 --> 00:03:45,760

course is is a major aspect of all of

113

00:03:48,070 --> 00:03:46,640

this

114

00:03:49,830 --> 00:03:48,080

another thing that's really developing

115

00:03:51,270 --> 00:03:49,840

though is the commercial aspects and

116

00:03:53,270 --> 00:03:51,280

space station

117

00:03:54,869 --> 00:03:53,280

has really been a platform to help

118

00:03:56,550 --> 00:03:54,879

enable some of the commercialization can

119

00:03:57,990 --> 00:03:56,560

you talk a little bit about some of the

120

00:04:02,149 --> 00:03:58,000

things that you see coming up in that

121

00:04:03,750 --> 00:04:02,159

area as well sure well iss of course has

122

00:04:05,110 --> 00:04:03,760

has many dimensions working in the

123

00:04:06,789 --> 00:04:05,120

commercialization of space one of the

124

00:04:09,429 --> 00:04:06,799

big ones is the commercial resupply of

125

00:04:11,270 --> 00:04:09,439

cargo so we signed the contract years

126

00:04:14,309 --> 00:04:11,280

ago with uh bo with i'm sorry with

127

00:04:15,830 --> 00:04:14,319

spacex in orbital now orbital atk to fly

128

00:04:17,509 --> 00:04:15,840

cargo to the international space station

129

00:04:19,349 --> 00:04:17,519

so both of those companies have been

130

00:04:21,189 --> 00:04:19,359

successful in doing that

131

00:04:23,430 --> 00:04:21,199

they also had some difficulties too but

132

00:04:25,590 --> 00:04:23,440

uh but that's part of the the the

133

00:04:27,830 --> 00:04:25,600

difficulty of our business so that's an

134

00:04:29,909 --> 00:04:27,840

aspect we're actually in the midst of

135

00:04:33,110 --> 00:04:29,919

the second cargo resupply contract and

136

00:04:35,030 --> 00:04:33,120

here uh very very shortly in the next

137

00:04:37,670 --> 00:04:35,040

month and a half we'll be announcing the

138

00:04:39,030 --> 00:04:37,680

the uh a new contract for additional

139

00:04:41,110 --> 00:04:39,040

cargo flights

140

00:04:43,030 --> 00:04:41,120

um through the the life of space station

141

00:04:44,870 --> 00:04:43,040

so we're looking forward to that

142

00:04:46,790 --> 00:04:44,880

as you know also we have commercial crew

143

00:04:49,030 --> 00:04:46,800

we have a contract with boeing and with

144

00:04:51,030 --> 00:04:49,040

uh spacex to fly crews up to

145

00:04:52,510 --> 00:04:51,040

international space station starting and

146

00:04:55,430 --> 00:04:52,520

further first flights are scheduled in

147

00:04:57,270 --> 00:04:55,440

2017 and the first rotation flights in

148

00:04:59,990 --> 00:04:57,280

2018.

149

00:05:01,270 --> 00:05:00,000

so all those are really important um not

150

00:05:03,909 --> 00:05:01,280

only for the international space station

151
00:05:06,790 --> 00:05:03,919
but really to foster this commercial uh

152
00:05:08,390 --> 00:05:06,800
industry out there for a low earth orbit

153
00:05:10,629 --> 00:05:08,400
we're also doing quite a few things in

154
00:05:12,710 --> 00:05:10,639
terms of research and

155
00:05:15,029 --> 00:05:12,720
commercial inside the space station so

156
00:05:18,230 --> 00:05:15,039
there's the center for advancement of

157
00:05:20,310 --> 00:05:18,240
of science in space or cases which is

158
00:05:22,310 --> 00:05:20,320
responsible of managing for managing the

159
00:05:24,230 --> 00:05:22,320
national lab aspect of the international

160
00:05:26,950 --> 00:05:24,240
space station and they're working with a

161
00:05:29,909 --> 00:05:26,960
number of private companies

162
00:05:31,270 --> 00:05:29,919
to do experiments and not only for

163
00:05:33,270 --> 00:05:31,280

the knowledge that they're gained but

164

00:05:35,909 --> 00:05:33,280

also for commercial gain so

165

00:05:37,270 --> 00:05:35,919

i think we really are trying to foster a

166

00:05:39,110 --> 00:05:37,280

a commercial

167

00:05:41,909 --> 00:05:39,120

industry in low earth orbit and and

168

00:05:43,670 --> 00:05:41,919

making quite uh quite good progress

169

00:05:45,430 --> 00:05:43,680

absolutely and i know we've covered a

170

00:05:47,350 --> 00:05:45,440

lot but what are you looking most

171

00:05:49,110 --> 00:05:47,360

forward to as you embark on this new

172

00:05:51,029 --> 00:05:49,120

position is there anything

173

00:05:53,270 --> 00:05:51,039

in particular that's

174

00:05:54,870 --> 00:05:53,280

you know the the thing is we've been

175

00:05:56,550 --> 00:05:54,880

doing research on board international

176

00:05:58,230 --> 00:05:56,560

space station for years and what i'm

177

00:06:00,469 --> 00:05:58,240

looking forward to is really seeing the

178

00:06:01,830 --> 00:06:00,479

fruition of that so we've had great

179

00:06:03,430 --> 00:06:01,840

great experience we've learned a quite

180

00:06:05,510 --> 00:06:03,440

quite a few things both for nasa's

181

00:06:06,790 --> 00:06:05,520

purposes but for let's say for for

182

00:06:08,710 --> 00:06:06,800

humankind

183

00:06:10,629 --> 00:06:08,720

as a species and i'm looking forward to

184

00:06:11,990 --> 00:06:10,639

continuing that actually growing that

185

00:06:13,189 --> 00:06:12,000

and really seeing the results of that

186

00:06:14,950 --> 00:06:13,199

there's been a number of things that

187

00:06:17,510 --> 00:06:14,960

we've already done that have had

188

00:06:19,110 --> 00:06:17,520

significant benefits here uh here on the

189

00:06:21,510 --> 00:06:19,120

ground one of the ones that just came

190

00:06:22,550 --> 00:06:21,520

out recently we've we

191

00:06:23,990 --> 00:06:22,560

there was an experiment done in

192

00:06:26,230 --> 00:06:24,000

expedition five

193

00:06:29,189 --> 00:06:26,240

and uh and it basically was was looking

194

00:06:30,790 --> 00:06:29,199

at how to uh how to purify the air that

195

00:06:32,710 --> 00:06:30,800

uh that led to a commercial product

196

00:06:35,270 --> 00:06:32,720

that's actually used here uh here on the

197

00:06:37,350 --> 00:06:35,280

earth in in number places day cares and

198

00:06:39,029 --> 00:06:37,360

schools and hospitals it's also used in

199

00:06:40,070 --> 00:06:39,039

the wine industry

200

00:06:41,670 --> 00:06:40,080

to help

201
00:06:44,150 --> 00:06:41,680
mold from growing down in their wine

202
00:06:46,309 --> 00:06:44,160
cellar so seeing something like that go

203
00:06:47,990 --> 00:06:46,319
from an experiment on board iss to being

204
00:06:51,029 --> 00:06:48,000
something that that people can use all

205
00:06:52,309 --> 00:06:51,039
over the planet is is really amazing

206
00:06:54,390 --> 00:06:52,319
we have a number of experiments that are

207
00:06:56,790 --> 00:06:54,400
going on in in fundamental science we

208
00:06:58,870 --> 00:06:56,800
have the alpha magnetic spectrometer and

209
00:07:01,110 --> 00:06:58,880
now cream which you're looking at

210
00:07:02,790 --> 00:07:01,120
at particles of energies that are orders

211
00:07:04,950 --> 00:07:02,800
of magnitude greater than can be seen

212
00:07:06,870 --> 00:07:04,960
here on earth uh and we're actually

213
00:07:08,629 --> 00:07:06,880

watching them and and learning about

214

00:07:09,430 --> 00:07:08,639

them learning about the the origin of

215

00:07:13,670 --> 00:07:09,440

our

216

00:07:16,390 --> 00:07:13,680

that it'll be really amazing so all

217

00:07:18,550 --> 00:07:16,400

these things i'm looking forward to

218

00:07:20,309 --> 00:07:18,560

not only growing the opportunities for

219

00:07:22,629 --> 00:07:20,319

research on board the iss but really

220

00:07:23,909 --> 00:07:22,639

seeing seeing how it affects our lives

221

00:07:25,350 --> 00:07:23,919

here on the planet

222

00:07:27,990 --> 00:07:25,360

right and we just want to remind our

223

00:07:29,270 --> 00:07:28,000

viewers that you can see a lot of those

224

00:07:31,990 --> 00:07:29,280

case studies if you will of these

225

00:07:33,749 --> 00:07:32,000

success stories of ways that the space

226

00:07:36,710 --> 00:07:33,759

station has benefited life on earth on

227

00:07:38,950 --> 00:07:36,720

our website at www.nasa.gov

228

00:07:40,390 --> 00:07:38,960

station so with that thank you again so

229

00:07:42,070 --> 00:07:40,400

much for your time congratulations on

230

00:07:43,430 --> 00:07:42,080

the new position and we look forward to

231

00:07:45,110 --> 00:07:43,440

hearing from you

232

00:07:46,950 --> 00:07:45,120

awesome thanks very much again that's

233

00:07:48,629 --> 00:07:46,960

kirk sherman the new international space