



**HOUSTON** | WE HAVE A  
PODCAST

1  
00:00:00,633 --> 00:00:08,475  
[ MUSIC ]

2  
00:00:08,475 --> 00:00:09,542  
>> T MINUS FIVE SECONDS

3  
00:00:09,542 --> 00:00:12,679  
AND COUNTING-- MARK.

4  
00:00:12,679 --> 00:00:16,916  
[ INDISTINCT RADIO CHATTER ]

5  
00:00:16,916 --> 00:00:18,885  
>> HOUSTON, WE HAVE A PODCAST.

6  
00:00:18,885 --> 00:00:20,153  
[ MUSIC ]

7  
00:00:20,153 --> 00:00:21,087  
>> HELLO NASA TV,

8  
00:00:21,087 --> 00:00:22,522  
FACEBOOK LIVE, USTREAM--

9  
00:00:22,522 --> 00:00:23,823  
WHEREVER YOU ARE WATCHING.

10  
00:00:23,823 --> 00:00:24,958  
WELCOME TO A VERY SPECIAL

11  
00:00:24,958 --> 00:00:26,326  
EPISODE OF "HOUSTON,

12  
00:00:26,326 --> 00:00:27,894  
"WE HAVE A PODCAST."

13  
00:00:27,894 --> 00:00:28,862

SO IF YOU'RE UNFAMILIAR WITH

14

00:00:28,862 --> 00:00:29,929

THE PODCAST, THIS IS WHERE

15

00:00:29,929 --> 00:00:31,498

WE BRING IN NASA EXPERTS--

16

00:00:31,498 --> 00:00:32,799

SCIENTISTS, ENGINEERS,

17

00:00:32,799 --> 00:00:34,334

ASTRONAUTS-- ALL TO TELL YOU

18

00:00:34,334 --> 00:00:35,969

THE COOLEST STUFF ABOUT

19

00:00:35,969 --> 00:00:37,737

WHAT'S GOING ON HERE AT NASA.

20

00:00:37,737 --> 00:00:38,638

SO TODAY WE HAVE

21

00:00:38,638 --> 00:00:39,973

A VERY SPECIAL EPISODE.

22

00:00:39,973 --> 00:00:41,174

OF COURSE, YOU CAN SEE US

23

00:00:41,174 --> 00:00:42,075

ON CAMERA, AND THIS IS

24

00:00:42,075 --> 00:00:43,977

USUALLY AN AUDIO PODCAST.

25

00:00:43,977 --> 00:00:44,811

BUT ALSO, WE'RE GOING TO BE

26  
00:00:44,811 --> 00:00:46,379  
TALKING TO SPACE.

27  
00:00:46,379 --> 00:00:47,414  
THIS IS NOT THE FIRST TIME

28  
00:00:47,414 --> 00:00:48,114  
WE'VE DONE THAT.

29  
00:00:48,114 --> 00:00:48,782  
WE'VE DONE IT ABOUT

30  
00:00:48,782 --> 00:00:50,517  
TWO MONTHS AGO WITH JACK FISCHER

31  
00:00:50,517 --> 00:00:51,351  
ABOARD THE INTERNATIONAL

32  
00:00:51,351 --> 00:00:52,185  
SPACE STATION.

33  
00:00:52,185 --> 00:00:52,819  
AND WE'RE GOING TO DO IT

34  
00:00:52,819 --> 00:00:54,154  
AGAIN WITH SOME ASTRONAUTS,

35  
00:00:54,154 --> 00:00:55,188  
EXCEPT NOT WITH JUST ONE.

36  
00:00:55,188 --> 00:00:55,889  
WE'RE GOING TO DO IT WITH

37  
00:00:55,889 --> 00:00:57,257  
FOUR ASTRONAUTS:

38  
00:00:57,257 --> 00:00:58,992

RANDY "KOMRADE" BRESNIK,

39

00:00:58,992 --> 00:01:00,560

MARK "SABOT" VANDE HEI,

40

00:01:00,560 --> 00:01:03,863

JOE ACABA, AND PAOLO NESPOLI.

41

00:01:03,863 --> 00:01:04,597

SO I'M NOT GOING TO DO THIS

42

00:01:04,597 --> 00:01:05,565

ALONE, OF COURSE.

43

00:01:05,565 --> 00:01:07,400

SAME AS ALWAYS, SAME AS BEFORE,

44

00:01:07,400 --> 00:01:08,568

I HAVE A CO-HOST WITH ME--

45

00:01:08,568 --> 00:01:10,403

NASA PUBLIC AFFAIRS OFFICER

46

00:01:10,403 --> 00:01:11,638

FOR THE ASTRONAUT OFFICE,

47

00:01:11,638 --> 00:01:12,205

MEGAN SUMNER.

48

00:01:12,205 --> 00:01:13,206

MEGAN, THANKS FOR BEING HERE.

49

00:01:13,206 --> 00:01:14,340

>> THANKS, HAPPY TO BE HERE.

50

00:01:14,340 --> 00:01:15,508

EXCITED TO TALK TO THEM.

51  
00:01:15,508 --> 00:01:16,142  
>> AWESOME.

52  
00:01:16,142 --> 00:01:17,377  
SO, I MEAN, PUBLIC AFFAIRS

53  
00:01:17,377 --> 00:01:18,211  
OFFICER FOR

54  
00:01:18,211 --> 00:01:19,512  
THE ASTRONAUT OFFICE.

55  
00:01:19,512 --> 00:01:20,647  
NOT THE ONLY ROLE YOU'VE HAD

56  
00:01:20,647 --> 00:01:21,581  
HERE AT NASA, RIGHT?

57  
00:01:21,581 --> 00:01:22,382  
>> MM-HMM, YEAH.

58  
00:01:22,382 --> 00:01:23,683  
I'VE PREVIOUSLY ACTUALLY

59  
00:01:23,683 --> 00:01:24,651  
MANAGED OUR SOCIAL MEDIA

60  
00:01:24,651 --> 00:01:25,685  
ACCOUNTS HERE-- THE JOHNSON

61  
00:01:25,685 --> 00:01:26,619  
SPACE CENTER ACCOUNTS, AND

62  
00:01:26,619 --> 00:01:27,454  
THE INTERNATIONAL SPACE

63  
00:01:27,454 --> 00:01:29,122

STATION ACCOUNTS, AND NOW

64

00:01:29,122 --> 00:01:30,723

I AM WORKING SUPPORTING

65

00:01:30,723 --> 00:01:32,025

THE ASTRONAUT OFFICE FOR

66

00:01:32,025 --> 00:01:32,592

APPEARANCES THAT

67

00:01:32,592 --> 00:01:33,660

THEY GO OUT AND DO, AND ALSO

68

00:01:33,660 --> 00:01:35,261

THE MEDIA SUPPORT.

69

00:01:35,261 --> 00:01:36,262

WE HAVE MEDIA COME AND

70

00:01:36,262 --> 00:01:36,896

TALK TO THEM BEFORE

71

00:01:36,896 --> 00:01:38,465

THEIR MISSIONS, AND DO

72

00:01:38,465 --> 00:01:39,466

INTERVIEWS AND MEDIA VISITS

73

00:01:39,466 --> 00:01:40,934

AND THINGS LIKE THAT.

74

00:01:40,934 --> 00:01:41,935

>> FANTASTIC.

75

00:01:41,935 --> 00:01:42,969

AND SO, I THINK THAT'S

76  
00:01:42,969 --> 00:01:44,337  
THE REASON YOU'RE THE PERFECT

77  
00:01:44,337 --> 00:01:45,438  
PERSON TO HAVE AS A CO-HOST

78  
00:01:45,438 --> 00:01:46,506  
WITH ME TODAY IS JUST

79  
00:01:46,506 --> 00:01:47,907  
BECAUSE, FIRST OF ALL,

80  
00:01:47,907 --> 00:01:48,908  
YOU KNOW THE ASTRONAUTS THAT

81  
00:01:48,908 --> 00:01:49,909  
WE'RE TALKING TO TODAY.

82  
00:01:49,909 --> 00:01:50,643  
YOU'VE ACTUALLY WORKED WITH

83  
00:01:50,643 --> 00:01:52,011  
SOME OF THEM IN THE PAST, RIGHT?

84  
00:01:52,011 --> 00:01:53,680  
>> YEAH, SO JOE AND MARK,

85  
00:01:53,680 --> 00:01:54,581  
WHO WE'LL BE TALKING TO

86  
00:01:54,581 --> 00:01:55,381  
TODAY, WERE ACTUALLY

87  
00:01:55,381 --> 00:01:56,416  
THE FIRST TWO ASTRONAUTS THAT

88  
00:01:56,416 --> 00:01:57,150

I GOT TO WORK WITH

89

00:01:57,150 --> 00:01:59,285  
IN THIS ROLE AS THE PUBLIC

90

00:01:59,285 --> 00:02:00,520  
AFFAIRS OFFICER FOR

91

00:02:00,520 --> 00:02:01,621  
THE ASTRONAUT OFFICE, SO

92

00:02:01,621 --> 00:02:02,889  
I'M REALLY EXCITED TO GET TO

93

00:02:02,889 --> 00:02:04,324  
ACTUALLY TALK TO THEM IN SPACE.

94

00:02:04,324 --> 00:02:05,258  
>> AWESOME.

95

00:02:05,258 --> 00:02:06,826  
BUT THEN ALSO, YOU RAN

96

00:02:06,826 --> 00:02:08,161  
THE SOCIAL MEDIA ACCOUNTS HERE

97

00:02:08,161 --> 00:02:09,229  
AT THE JOHNSON SPACE CENTER

98

00:02:09,229 --> 00:02:10,763  
FOR A WHILE, SO THAT'S

99

00:02:10,763 --> 00:02:11,865  
ANOTHER PART OF THIS IS

100

00:02:11,865 --> 00:02:12,832  
WE ARE ON FACEBOOK LIVE.

101  
00:02:12,832 --> 00:02:14,167  
SO IF YOU HAVE ANY QUESTIONS

102  
00:02:14,167 --> 00:02:14,901  
THAT YOU'D LIKE TO SEND UP

103  
00:02:14,901 --> 00:02:16,469  
TO THE CREW, MEGAN IS GOING TO

104  
00:02:16,469 --> 00:02:17,570  
BE MONITORING THOSE QUESTIONS

105  
00:02:17,570 --> 00:02:18,705  
REAL TIME.

106  
00:02:18,705 --> 00:02:19,372  
SHE'S GOT HER PHONE RIGHT

107  
00:02:19,372 --> 00:02:20,406  
NEXT TO HER AND WE'LL BE

108  
00:02:20,406 --> 00:02:21,241  
ASKING SOME OF THOSE QUESTIONS

109  
00:02:21,241 --> 00:02:24,110  
TO OUR FOUR ASTRONAUTS TODAY.

110  
00:02:24,110 --> 00:02:25,345  
SO THE TOPIC OF TODAY'S

111  
00:02:25,345 --> 00:02:26,913  
CONVERSATION IS ASTRONAUT

112  
00:02:26,913 --> 00:02:27,814  
PHOTOGRAPHY.

113  
00:02:27,814 --> 00:02:29,082

SO WHAT'S THAT ALL ABOUT?

114

00:02:29,082 --> 00:02:30,617

>> OH, MAN, THE ASTRONAUTS

115

00:02:30,617 --> 00:02:31,484

TAKE THE MOST AMAZING

116

00:02:31,484 --> 00:02:33,019

PICTURES FROM THE SPACE

117

00:02:33,019 --> 00:02:34,787

STATION AND IT'S JUST

118

00:02:34,787 --> 00:02:36,523

AN AMAZING VIEW THAT MOST OF US

119

00:02:36,523 --> 00:02:37,423

WILL NEVER GET TO SEE

120

00:02:37,423 --> 00:02:38,191

IN OUR LIFETIME.

121

00:02:38,191 --> 00:02:39,759

AND THANKFULLY, THEY ARE

122

00:02:39,759 --> 00:02:41,194

WILLING TO SHARE THAT VIEW

123

00:02:41,194 --> 00:02:43,196

WITH US THROUGH SOCIAL MEDIA.

124

00:02:43,196 --> 00:02:44,163

EASILY THEY CAN SHARE IT OUT

125

00:02:44,163 --> 00:02:45,532

TO THE WHOLE WORLD OF

126  
00:02:45,532 --> 00:02:46,599  
WHAT THAT'S LIKE.

127  
00:02:46,599 --> 00:02:47,867  
AND NOT ONLY THAT, BUT

128  
00:02:47,867 --> 00:02:48,635  
THEY'RE SHARING WITH US

129  
00:02:48,635 --> 00:02:49,669  
WHAT THEY'RE DOING IN SPACE

130  
00:02:49,669 --> 00:02:50,470  
AND A LITTLE GLIMPSE

131  
00:02:50,470 --> 00:02:52,105  
INTO THEIR LIFE, THE SCIENCE

132  
00:02:52,105 --> 00:02:53,172  
THEY'RE DOING, ALL THE WORK

133  
00:02:53,172 --> 00:02:54,240  
THEY'RE DOING ON BOARD.

134  
00:02:54,240 --> 00:02:55,341  
SO IT'S SO COOL TO BE ABLE

135  
00:02:55,341 --> 00:02:56,442  
TO SEE THAT PERSPECTIVE.

136  
00:02:56,442 --> 00:02:56,976  
>> ABSOLUTELY.

137  
00:02:56,976 --> 00:02:57,777  
I'M VERY EXCITED FOR

138  
00:02:57,777 --> 00:02:58,678

THIS TOPIC BECAUSE IT IS

139

00:02:58,678 --> 00:03:00,480

ONE OF THE MORE VISUAL THINGS

140

00:03:00,480 --> 00:03:01,281

THAT WE GET TO SEE

141

00:03:01,281 --> 00:03:02,348

OF WHAT THE ASTRONAUTS DO

142

00:03:02,348 --> 00:03:03,082

ON THE INTERNATIONAL

143

00:03:03,082 --> 00:03:03,683

SPACE STATION.

144

00:03:03,683 --> 00:03:04,517

OBVIOUSLY, THEY'RE DOING

145

00:03:04,517 --> 00:03:05,852

SCIENCE ALL THE TIME

146

00:03:05,852 --> 00:03:06,953

AND WE HAVE CREW MEMBERS

147

00:03:06,953 --> 00:03:08,154

THAT ARE CONSTANTLY WORKING

148

00:03:08,154 --> 00:03:09,355

VARIOUS EXPERIMENTS.

149

00:03:09,355 --> 00:03:10,089

AND JUST RECENTLY,

150

00:03:10,089 --> 00:03:10,857

THEY'VE BEEN GOING OUT

151  
00:03:10,857 --> 00:03:12,225  
AND DOING A FEW SPACEWALKS

152  
00:03:12,225 --> 00:03:13,259  
SO THEY HAVE MAINTENANCE TASKS

153  
00:03:13,259 --> 00:03:14,861  
THAT THEY REGULARLY DO.

154  
00:03:14,861 --> 00:03:16,229  
BUT RIGHT NOW, WE'RE ACTUALLY

155  
00:03:16,229 --> 00:03:17,363  
GOING TO BE TALKING ABOUT

156  
00:03:17,363 --> 00:03:18,331  
ASTRONAUT PHOTOGRAPHY.

157  
00:03:18,331 --> 00:03:19,299  
AND ACTUALLY RIGHT NEXT TO US

158  
00:03:19,299 --> 00:03:20,266  
WE HAVE SOME OF THE EQUIPMENT

159  
00:03:20,266 --> 00:03:21,501  
THAT THEY PRACTICE ON

160  
00:03:21,501 --> 00:03:22,802  
TO ACTUALLY PRACTICE FOR

161  
00:03:22,802 --> 00:03:24,704  
TAKING PHOTOS OF THE EARTH.

162  
00:03:24,704 --> 00:03:25,972  
SO IT LOOKS LIKE OUR ASTRONAUTS

163  
00:03:25,972 --> 00:03:27,040

ARE ACTUALLY GETTING SET-UP

164

00:03:27,040 --> 00:03:28,341

HERE, JUST LIKE THEY DO

165

00:03:28,341 --> 00:03:30,877

FOR ANY PUBLIC AFFAIRS EVENT.

166

00:03:30,877 --> 00:03:31,711

SO WE'RE GOING TO BE TALKING

167

00:03:31,711 --> 00:03:32,745

WITH MISSION CONTROL SOON

168

00:03:32,745 --> 00:03:34,314

AND GETTING THAT STARTED.

169

00:03:34,314 --> 00:03:36,249

SO IF YOU HAVE ANY QUESTIONS,

170

00:03:36,249 --> 00:03:37,216

PLEASE FEEL FREE

171

00:03:37,216 --> 00:03:38,585

TO ASK THEM BELOW.

172

00:03:38,585 --> 00:03:40,153

>> YUP, YUP, WE'RE TAKING

173

00:03:40,153 --> 00:03:41,521

YOUR QUESTIONS ON FACEBOOK LIVE.

174

00:03:41,521 --> 00:03:42,855

I'LL BE WATCHING AND ASKING

175

00:03:42,855 --> 00:03:44,424

THE CREW, SO GET YOUR QUESTION

176  
00:03:44,424 --> 00:03:45,658  
IN THERE AND WATCH ALONG

177  
00:03:45,658 --> 00:03:46,693  
SO YOU CAN HEAR IF THEY GET

178  
00:03:46,693 --> 00:03:47,927  
A CHANCE TO ANSWER IT.

179  
00:03:47,927 --> 00:03:48,962  
>> ABSOLUTELY.

180  
00:03:48,962 --> 00:03:49,596  
ALL RIGHT, LOOKS LIKE

181  
00:03:49,596 --> 00:03:50,330  
OUR FOUR ASTRONAUTS ARE

182  
00:03:50,330 --> 00:03:52,198  
GETTING SET UP RIGHT NOW.

183  
00:03:52,198 --> 00:03:53,066  
LET'S THINK, I MEAN,

184  
00:03:53,066 --> 00:03:55,168  
SO WE HAVE-- WE CAN TALK ABOUT

185  
00:03:55,168 --> 00:03:56,402  
SOME OF THE EXTRAVEHICULAR

186  
00:03:56,402 --> 00:03:57,470  
ACTIVITIES THAT THEY'VE BEEN

187  
00:03:57,470 --> 00:03:58,438  
DOING, SOME OF THE SPACEWALKS

188  
00:03:58,438 --> 00:04:00,073

AS WELL, BUT A LITTLE BIT

189

00:04:00,073 --> 00:04:01,274

ABOUT OUR CREW--

190

00:04:01,274 --> 00:04:03,576

RANDY BRESNIK AND JOE ACABA

191

00:04:03,576 --> 00:04:04,477

AND PAOLO NESPOLI

192

00:04:04,477 --> 00:04:05,445

HAVE BEEN THERE BEFORE.

193

00:04:05,445 --> 00:04:06,679

FOR MARK VANDE HEI THIS IS

194

00:04:06,679 --> 00:04:07,914

HIS FIRST SPACE FLIGHT, SO

195

00:04:07,914 --> 00:04:08,715

WE'LL GET TO TALK TO HIM

196

00:04:08,715 --> 00:04:09,515

ABOUT HIS EXPERIENCE

197

00:04:09,515 --> 00:04:11,050

BEING A NEWCOMER.

198

00:04:11,050 --> 00:04:11,718

ACTUALLY, THREE OF

199

00:04:11,718 --> 00:04:13,019

THE ASTRONAUTS WE'VE TALKED TO

200

00:04:13,019 --> 00:04:14,320

ON THE PODCAST BEFORE--

201  
00:04:14,320 --> 00:04:15,955  
RANDY BRESNIK, MARK VANDE HEI,

202  
00:04:15,955 --> 00:04:16,856  
AND JOE ACABA--

203  
00:04:16,856 --> 00:04:18,157  
ALL EACH INDIVIDUAL EPISODES

204  
00:04:18,157 --> 00:04:19,292  
TO SHARE THEIR EXPERIENCES

205  
00:04:19,292 --> 00:04:20,693  
OF WHAT THEY'VE DONE ABOARD.

206  
00:04:20,693 --> 00:04:21,661  
PAOLO NESPOLI, THIS'LL BE

207  
00:04:21,661 --> 00:04:22,428  
THE FIRST TIME TALKING

208  
00:04:22,428 --> 00:04:23,262  
WITH HIM, SO THAT'LL BE

209  
00:04:23,262 --> 00:04:24,297  
A PLEASURE AS WELL.

210  
00:04:24,297 --> 00:04:25,632  
AND HE SHARED SOME FANTASTIC

211  
00:04:25,632 --> 00:04:28,635  
IMAGERY OF ITALY AND JUST

212  
00:04:28,635 --> 00:04:29,702  
DIFFERENT PARTS OF THE EARTH,

213  
00:04:29,702 --> 00:04:31,137

SO CAN'T WAIT TO SEE

214

00:04:31,137 --> 00:04:32,038

WHAT WE'RE DOING THERE.

215

00:04:32,038 --> 00:04:33,006

SO LET'S CONNECT WITH

216

00:04:33,006 --> 00:04:34,240

MISSION CONTROL HOUSTON AND

217

00:04:34,240 --> 00:04:35,475

TALK TO OUR FOUR ASTRONAUTS.

218

00:04:35,475 --> 00:04:36,776

AGAIN, SEND YOUR QUESTIONS

219

00:04:36,776 --> 00:04:39,746

BELOW ON FACEBOOK LIVE.

220

00:04:39,746 --> 00:04:40,613

>> STATION, THIS IS HOUSTON.

221

00:04:40,613 --> 00:04:44,017

ARE YOU READY FOR THE EVENT?

222

00:04:44,017 --> 00:04:44,717

>> HOUSTON, WE'RE READY

223

00:04:44,717 --> 00:04:47,420

FOR THE EVENT.

224

00:04:47,420 --> 00:04:49,088

>> JSC PAO, PLEASE CALL

225

00:04:49,088 --> 00:04:51,190

STATION FOR A VOICE CHECK.

226

00:04:51,190 --> 00:04:52,325

>> STATION, THIS IS

227

00:04:52,325 --> 00:04:53,926

GARY JORDAN AND MEGAN SUMNER

228

00:04:53,926 --> 00:04:55,194

IN THE PUBLIC AFFAIRS OFFICE.

229

00:04:55,194 --> 00:04:56,963

HOW DO YOU HEAR US?

230

00:04:56,963 --> 00:04:57,664

>> GARY, WE GOT YOU

231

00:04:57,664 --> 00:04:58,665

LOUD AND CLEAR.

232

00:04:58,665 --> 00:04:59,298

MEGAN, GOOD AFTERNOON

233

00:04:59,298 --> 00:05:00,299

TO YOU, TOO.

234

00:05:00,299 --> 00:05:01,668

>> ALL RIGHT, WELL THIS IS

235

00:05:01,668 --> 00:05:02,502

AN ABSOLUTE PLEASURE

236

00:05:02,502 --> 00:05:03,436

TO BE TALKING TO

237

00:05:03,436 --> 00:05:04,570

ALL FOUR OF YOU TODAY.

238

00:05:04,570 --> 00:05:05,304

I THOUGHT FOR SURE

239

00:05:05,304 --> 00:05:06,339

I'D AT LEAST GET TO TALK TO

240

00:05:06,339 --> 00:05:07,774

ONE ASTRONAUT, BUT THANK YOU

241

00:05:07,774 --> 00:05:08,875

SO MUCH FOR ALL FOUR OF YOU

242

00:05:08,875 --> 00:05:09,575

TAKING THE TIME

243

00:05:09,575 --> 00:05:11,044

TO TALK TO US TODAY.

244

00:05:11,044 --> 00:05:12,745

SO FOR-- A LOT OF YOU HAVE

245

00:05:12,745 --> 00:05:14,013

BEEN ON THE PODCAST ALREADY,

246

00:05:14,013 --> 00:05:15,548

SO AGAIN, WELCOME BACK.

247

00:05:15,548 --> 00:05:16,349

BUT TODAY, WE'RE GOING TO BE

248

00:05:16,349 --> 00:05:17,583

DOING A LIVE EVENT SO

249

00:05:17,583 --> 00:05:18,484

WE REALLY WANTED TO BRING IN

250

00:05:18,484 --> 00:05:19,485

SOME QUESTIONS FROM SOCIAL

251  
00:05:19,485 --> 00:05:20,319  
MEDIA AND HOPING YOU CAN

252  
00:05:20,319 --> 00:05:21,821  
ANSWER THOSE REAL TIME.

253  
00:05:21,821 --> 00:05:22,855  
BUT JUST TO START OFF,

254  
00:05:22,855 --> 00:05:24,257  
BECAUSE THERE ARE FOUR OF YOU,

255  
00:05:24,257 --> 00:05:25,058  
IF YOU CAN JUST SORT OF

256  
00:05:25,058 --> 00:05:26,225  
GIVE A QUICK INTRODUCTION

257  
00:05:26,225 --> 00:05:28,528  
TO ALL OF YOU SO OUR LISTENERS

258  
00:05:28,528 --> 00:05:31,064  
KIND OF KNOW WHO YOU ARE.

259  
00:05:31,064 --> 00:05:31,931  
>> ALL RIGHT, WE'VE GOT

260  
00:05:31,931 --> 00:05:33,399  
EXPEDITION 53 SPACE STATION

261  
00:05:33,399 --> 00:05:36,502  
COMMANDER RANDY BRESNIK.

262  
00:05:38,538 --> 00:05:40,773  
>> EXPEDITION 52, 53 FLIGHT

263  
00:05:40,773 --> 00:05:42,742

ENGINEER PAOLO NESPOLI FROM

264

00:05:42,742 --> 00:05:46,512

THE EUROPEAN SPACE AGENCY.

265

00:05:46,512 --> 00:05:49,015

>> AND EXPEDITION 53 AND 54

266

00:05:49,015 --> 00:05:51,651

FLIGHT ENGINEER JOE ACABA.

267

00:05:54,487 --> 00:05:56,789

>> EXPEDITION 53 AND 54

268

00:05:56,789 --> 00:05:59,959

FLIGHT ENGINEER MARK VANDE HEI.

269

00:05:59,959 --> 00:06:00,560

>> THAT'S AWESOME.

270

00:06:00,560 --> 00:06:01,728

WELCOME TO ALL OF YOU.

271

00:06:01,728 --> 00:06:03,529

THANKS FOR BEING WITH US TODAY.

272

00:06:03,529 --> 00:06:04,664

SO WE'LL START WITH

273

00:06:04,664 --> 00:06:05,732

KOMRADE AND PAOLO.

274

00:06:05,732 --> 00:06:06,432

YOU GUYS HAVE BEEN

275

00:06:06,432 --> 00:06:07,400

UP THERE THE LONGEST,

276

00:06:07,400 --> 00:06:08,935  
SO JUST HOW HAVE THE--

277

00:06:08,935 --> 00:06:09,602  
HOW'S THE MISSION

278

00:06:09,602 --> 00:06:10,369  
BEEN GOING SO FAR?

279

00:06:10,369 --> 00:06:10,970  
WHAT ARE SOME OF

280

00:06:10,970 --> 00:06:12,472  
THE HIGHLIGHTS?

281

00:06:12,472 --> 00:06:13,573  
>> I THINK CERTAINLY HIGHS

282

00:06:13,573 --> 00:06:14,907  
FOR US WERE GETTING TO WORK

283

00:06:14,907 --> 00:06:16,476  
WITH THE PREVIOUS CREW

284

00:06:16,476 --> 00:06:17,543  
AND THE SPACE NINJA,

285

00:06:17,543 --> 00:06:19,245  
PEGGY WHITSON, LEARNING

286

00:06:19,245 --> 00:06:20,012  
FROM THEM TO BE ABLE TO

287

00:06:20,012 --> 00:06:21,981  
TAKE OVER AND RUN SPACE STATION

288

00:06:21,981 --> 00:06:23,082

WHEN WE HAD OUR NEW CREW

289

00:06:23,082 --> 00:06:24,751

SHOW UP FOR EXPEDITION 53.

290

00:06:24,751 --> 00:06:25,618

WE GOT TO HAVE A DRAGON

291

00:06:25,618 --> 00:06:26,519

COME UP HERE AND BRING A WHOLE

292

00:06:26,519 --> 00:06:27,520

BUNCH OF SCIENCE THAT

293

00:06:27,520 --> 00:06:28,221

WE GOT TO WORK WITH

294

00:06:28,221 --> 00:06:30,323

FOR A WHOLE MONTH.

295

00:06:30,323 --> 00:06:31,390

CERTAINLY THE PAST WEEK

296

00:06:31,390 --> 00:06:32,225

HAS BEEN REAL EXCITING

297

00:06:32,225 --> 00:06:33,326

BECAUSE WE DID TWO EVAs THAT

298

00:06:33,326 --> 00:06:34,560

REALLY TURN THE STATION

299

00:06:34,560 --> 00:06:35,495

BACK TO GOOD CONFIGURATION

300

00:06:35,495 --> 00:06:37,196

WITH A ROBOTIC ARM, AND

301  
00:06:37,196 --> 00:06:39,031  
SOME CAMERA WORK, AND PREPARING

302  
00:06:39,031 --> 00:06:40,099  
STUFF FOR ROBOTIC TASKS

303  
00:06:40,099 --> 00:06:41,000  
IN THE FUTURE.

304  
00:06:41,000 --> 00:06:41,934  
SO WE'VE GOT A LOT OF STUFF

305  
00:06:41,934 --> 00:06:43,402  
GOING ON INSIDE AND GOING ON

306  
00:06:43,402 --> 00:06:44,737  
OUTSIDE, AND SO IT'S BEEN

307  
00:06:44,737 --> 00:06:46,172  
A REALLY EXCITING EXPEDITION

308  
00:06:46,172 --> 00:06:47,507  
SO FAR AND WE STILL ARE

309  
00:06:47,507 --> 00:06:49,876  
ONLY ABOUT HALFWAY THROUGH.

310  
00:06:49,876 --> 00:06:51,611  
>> WELL NOT MUCH TO ADD TO

311  
00:06:51,611 --> 00:06:53,713  
WHAT KOMRADE HAS ALREADY SAID.

312  
00:06:53,713 --> 00:06:54,981  
I MEAN, WE'RE DOING

313  
00:06:54,981 --> 00:06:56,082

A LOT OF ACTIVITIES HERE.

314

00:06:56,082 --> 00:06:57,884

IT'S ALWAYS CRAZY.

315

00:06:57,884 --> 00:06:58,684

LIKE, YOU CAN WAKE UP

316

00:06:58,684 --> 00:06:59,752

IN THE MORNING, START WORKING

317

00:06:59,752 --> 00:07:01,053

WITH SOMETHING, AND SPIN

318

00:07:01,053 --> 00:07:02,021

AROUND, AND WORK WITH

319

00:07:02,021 --> 00:07:03,022

SOME SCIENCE, AND THEN

320

00:07:03,022 --> 00:07:05,091

SPIN AROUND AGAIN, AND WORK

321

00:07:05,091 --> 00:07:06,292

WITH THE ROBOTIC ARM.

322

00:07:06,292 --> 00:07:08,294

WE'VE BEEN DOING ALMOST

323

00:07:08,294 --> 00:07:09,862

ALL OF IT RIGHT NOW.

324

00:07:09,862 --> 00:07:11,931

WE HAVE, WHAT, 200 MORE

325

00:07:11,931 --> 00:07:12,865

ACTIVITIES, 250,

326

00:07:12,865 --> 00:07:13,699

SOMETHING LIKE THAT.

327

00:07:13,699 --> 00:07:15,768

I MEAN, AND WE ARE DOING

328

00:07:15,768 --> 00:07:17,436

ALL OF THEM.

329

00:07:17,436 --> 00:07:18,604

>> FANTASTIC.

330

00:07:18,604 --> 00:07:19,939

SO TODAY, I MEAN, I'M SURE

331

00:07:19,939 --> 00:07:20,706

THERE'S A LOT OF DIFFERENT

332

00:07:20,706 --> 00:07:22,041

TOPICS THAT WE COULD TALK ABOUT,

333

00:07:22,041 --> 00:07:23,376

BUT REALLY WANTED TO FOCUS

334

00:07:23,376 --> 00:07:24,911

ON ASTRONAUT PHOTOGRAPHY TODAY

335

00:07:24,911 --> 00:07:26,078

BECAUSE YOU GUYS HAVE

336

00:07:26,078 --> 00:07:27,113

SUCH A UNIQUE PERSPECTIVE

337

00:07:27,113 --> 00:07:28,381

OF THE EARTH AND YOU GET

338

00:07:28,381 --> 00:07:29,615

SOME TIME SOMETIMES TO GO

339

00:07:29,615 --> 00:07:31,284

AND TAKE PHOTOS OF THE EARTH

340

00:07:31,284 --> 00:07:32,251

AND MAYBE JUST KIND OF

341

00:07:32,251 --> 00:07:33,853

WATCH THE EARTH GO BY.

342

00:07:33,853 --> 00:07:36,355

SO I GUESS SINCE, KOMRADE,

343

00:07:36,355 --> 00:07:37,256

YOU'RE HOLDING THE MIC,

344

00:07:37,256 --> 00:07:38,090

IF YOU WANT TO SHARE

345

00:07:38,090 --> 00:07:39,992

SOME EXPERIENCES FROM JUST

346

00:07:39,992 --> 00:07:41,460

LOOKING OUT THE WINDOW

347

00:07:41,460 --> 00:07:42,461

AND JUST KIND OF

348

00:07:42,461 --> 00:07:44,297

WHAT THAT FEELING IS LIKE?

349

00:07:44,297 --> 00:07:46,032

WHAT IT'S LIKE TO WATCH

350

00:07:46,032 --> 00:07:48,100

THE EARTH GO BY?

351  
00:07:48,100 --> 00:07:49,502  
>> I MEAN, IT'S REALLY HUMBLING

352  
00:07:49,502 --> 00:07:51,437  
BECAUSE IT'S SUCH A BEAUTIFUL

353  
00:07:51,437 --> 00:07:53,339  
THING AND THEY'RE SO--

354  
00:07:53,339 --> 00:07:54,373  
SO FAR, BEEN SO FEW OF US

355  
00:07:54,373 --> 00:07:55,208  
THAT HAVE HAD A CHANCE

356  
00:07:55,208 --> 00:07:56,275  
TO SEE IT.

357  
00:07:56,275 --> 00:07:58,477  
AND YOU DON'T LOOK AT

358  
00:07:58,477 --> 00:07:59,912  
THE EARTH AND COME--

359  
00:07:59,912 --> 00:08:01,314  
NOT BE CHANGED.

360  
00:08:01,314 --> 00:08:04,884  
YOU CERTAINLY FEEL

361  
00:08:04,884 --> 00:08:05,685  
A PART OF THE EARTH.

362  
00:08:05,685 --> 00:08:06,686  
YOU REALIZE THAT EVERY

363  
00:08:06,686 --> 00:08:08,187

EXPERIENCES YOU'VE EVER HAD,

364

00:08:08,187 --> 00:08:09,355

EVERY PERSON YOU'VE EVER KNOWN

365

00:08:09,355 --> 00:08:10,189

IS DOWN ON THAT LITTLE

366

00:08:10,189 --> 00:08:11,224

BLUE MARBLE.

367

00:08:11,224 --> 00:08:13,125

AND WHEN YOU SEE THE CURVE,

368

00:08:13,125 --> 00:08:14,961

YOUR MIND KNOWS HOW BIG

369

00:08:14,961 --> 00:08:16,495

THE EARTH IS AND YOU REALIZE

370

00:08:16,495 --> 00:08:17,263

WHEN YOU GO AROUND IT

371

00:08:17,263 --> 00:08:18,297

IN 90 MINUTES YOU'RE BACK

372

00:08:18,297 --> 00:08:21,367

TO ESSENTIALLY THE SAME SPOT.

373

00:08:21,367 --> 00:08:23,769

AND THE FACT THAT WE CAN

374

00:08:23,769 --> 00:08:25,104

DO THAT AND SEE THAT,

375

00:08:25,104 --> 00:08:25,972

YOU JUST FEEL COMPELLED

376

00:08:25,972 --> 00:08:27,607  
TO SHARE IT.

377

00:08:27,607 --> 00:08:28,374  
I'LL HAND THE MIC OVER

378

00:08:28,374 --> 00:08:30,276  
TO SABOT OVER HERE BECAUSE

379

00:08:30,276 --> 00:08:31,477  
HE'S ONLY BEEN UP HERE

380

00:08:31,477 --> 00:08:34,113  
ABOUT A MONTH, BUT TO GET

381

00:08:34,113 --> 00:08:35,615  
HIS IMPRESSIONS ON

382

00:08:35,615 --> 00:08:37,483  
WHAT IT WENT FROM SEEING IT

383

00:08:37,483 --> 00:08:39,185  
FOR THE FIRST TIME TO NOW

384

00:08:39,185 --> 00:08:39,952  
TRANSLATING THAT INTO

385

00:08:39,952 --> 00:08:40,720  
PHOTOGRAPHY TO TRY AND

386

00:08:40,720 --> 00:08:42,755  
SHARE THAT WITH OTHERS.

387

00:08:44,657 --> 00:08:45,424  
>> THE THING THAT IMPRESSED

388

00:08:45,424 --> 00:08:46,592

ME THE MOST WHEN I FIRST

389

00:08:46,592 --> 00:08:48,594

LOOKED OUT THE CUPOLA TO SEE

390

00:08:48,594 --> 00:08:50,897

THE EARTH WAS HOW CLOSE

391

00:08:50,897 --> 00:08:53,065

THE RECOGNIZABLE FEATURES

392

00:08:53,065 --> 00:08:54,834

OF THE EARTH SEEM TO SPACE.

393

00:08:54,834 --> 00:08:58,671

FOR EXAMPLE, SEEING ITALY

394

00:08:58,671 --> 00:09:02,208

AND IN THE SAME VIEW SEEING

395

00:09:02,208 --> 00:09:04,610

THE BLACKNESS OF SPACE.

396

00:09:04,610 --> 00:09:05,444

IT MAKES IT SEEM LIKE

397

00:09:05,444 --> 00:09:06,412

EVERYBODY ON THE EARTH

398

00:09:06,412 --> 00:09:08,347

IS REALLY, REALLY CLOSE

399

00:09:08,347 --> 00:09:09,348

TO SPACE WITHOUT EVER

400

00:09:09,348 --> 00:09:10,082

REALIZING IT.

401  
00:09:10,082 --> 00:09:11,517  
FROM OUR PERSPECTIVE,

402  
00:09:11,517 --> 00:09:12,852  
THERE'S JUST A THIN LAYER

403  
00:09:12,852 --> 00:09:14,153  
OF ATMOSPHERE THAT

404  
00:09:14,153 --> 00:09:15,888  
ALL OF HUMANITY'S LIVING IN

405  
00:09:15,888 --> 00:09:17,957  
AND OUTSIDE OF THAT IS SPACE.

406  
00:09:17,957 --> 00:09:20,626  
SO IT'S IMPRESSIVE TO ME

407  
00:09:20,626 --> 00:09:22,962  
HOW CLOSE WE REALLY ARE ALL

408  
00:09:22,962 --> 00:09:25,798  
TO WHAT WE SEE AS OUTER SPACE.

409  
00:09:25,798 --> 00:09:26,966  
FROM A PHOTOGRAPHY

410  
00:09:26,966 --> 00:09:27,800  
PERSPECTIVE, I THINK

411  
00:09:27,800 --> 00:09:28,901  
THAT'S AN IMPORTANT PERSPECTIVE

412  
00:09:28,901 --> 00:09:29,769  
FOR EVERYBODY TO HAVE,

413  
00:09:29,769 --> 00:09:30,703

SO MY FAVORITE THING TO DO

414

00:09:30,703 --> 00:09:31,570

IS TO TRY TO CAPTURE

415

00:09:31,570 --> 00:09:32,805

THOSE PICTURES THAT SHOW

416

00:09:32,805 --> 00:09:35,007

BOTH THE SPACE AND PLACES

417

00:09:35,007 --> 00:09:36,075

THAT WE RECOGNIZE

418

00:09:36,075 --> 00:09:38,444

AND CALL HOME ON THE PLANET.

419

00:09:38,444 --> 00:09:39,145

>> ABSOLUTELY.

420

00:09:39,145 --> 00:09:39,812

AND KOMRADE, I KNOW

421

00:09:39,812 --> 00:09:41,247

YOU'VE SHARED SOME JUST

422

00:09:41,247 --> 00:09:42,381

THE PERSPECTIVE OF THE EARTH

423

00:09:42,381 --> 00:09:44,150

COMPARED TO SOME OTHER

424

00:09:44,150 --> 00:09:45,284

IMAGES, YOU KNOW, BEING

425

00:09:45,284 --> 00:09:46,419

ON THE EARTH, TOO.

426

00:09:46,419 --> 00:09:47,520

AND THOSE ARE AN ABSOLUTE

427

00:09:47,520 --> 00:09:48,621

PLEASURE TO SEE.

428

00:09:48,621 --> 00:09:49,288

BUT I KNOW WE HAVE

429

00:09:49,288 --> 00:09:50,489

SOME ACTUAL QUESTIONS COMING IN

430

00:09:50,489 --> 00:09:51,857

FROM SOME OF OUR LISTENERS

431

00:09:51,857 --> 00:09:52,658

RIGHT NOW.

432

00:09:52,658 --> 00:09:53,559

>> YEAH.

433

00:09:53,559 --> 00:09:54,193

THAT'S AMAZING.

434

00:09:54,193 --> 00:09:54,961

I CAN'T EVEN IMAGINE

435

00:09:54,961 --> 00:09:55,861

WHAT IT'S LIKE TO ACTUALLY

436

00:09:55,861 --> 00:09:57,396

SEE THAT VIEW IN PERSON,

437

00:09:57,396 --> 00:09:59,198

BUT NEXT BEST THING OF COURSE

438

00:09:59,198 --> 00:10:00,099

IS TO BE ABLE TO SEE IT

439

00:10:00,099 --> 00:10:01,334

THROUGH PICTURES AND VIDEOS

440

00:10:01,334 --> 00:10:02,568

THAT YOU GUYS ARE TAKING.

441

00:10:02,568 --> 00:10:03,536

AND THE WHOLE WORLD

442

00:10:03,536 --> 00:10:05,438

REALLY APPRECIATES THAT.

443

00:10:05,438 --> 00:10:06,172

WE'VE GOT SOME AWESOME

444

00:10:06,172 --> 00:10:07,173

QUESTIONS COMING IN.

445

00:10:07,173 --> 00:10:07,840

LOTS OF PEOPLE ARE

446

00:10:07,840 --> 00:10:09,275

INTERESTED IN PHOTOGRAPHY

447

00:10:09,275 --> 00:10:11,377

IN SPACE AND YOU GUYS

448

00:10:11,377 --> 00:10:12,812

ON THE SPACE STATION.

449

00:10:12,812 --> 00:10:14,180

SO JACE ON FACEBOOK WANTS

450

00:10:14,180 --> 00:10:15,214

TO KNOW, "THERE ARE SO MANY

451

00:10:15,214 --> 00:10:16,015

"CAMERAS ON THE SPACE

452

00:10:16,015 --> 00:10:17,416

"STATION-- HOW DO YOU DECIDE

453

00:10:17,416 --> 00:10:18,851

"WHICH CAMERA TO USE?

454

00:10:18,851 --> 00:10:19,685

"AND CAN YOU TELL US A LITTLE

455

00:10:19,685 --> 00:10:20,619

"BIT ABOUT THE EQUIPMENT

456

00:10:20,619 --> 00:10:23,422

"YOU DO HAVE UP THERE?"

457

00:10:28,427 --> 00:10:31,497

>> YES, SO WE DO HAVE--

458

00:10:31,497 --> 00:10:33,032

FOR STILL PHOTOGRAPHY,

459

00:10:33,032 --> 00:10:33,866

WE ESSENTIALLY HAVE

460

00:10:33,866 --> 00:10:35,301

A NIKON CAMERA.

461

00:10:35,301 --> 00:10:39,472

RIGHT NOW, WE HAVE SEVERAL D4.

462

00:10:39,472 --> 00:10:40,973

EACH ONE OF US GETS HIS OWN,

463

00:10:40,973 --> 00:10:42,341

PLUS WE HAVE A COUPLE

464

00:10:42,341 --> 00:10:45,478

PLACED STRATEGICALLY.

465

00:10:45,478 --> 00:10:46,579

SOME OF THEM ARE DEDICATED

466

00:10:46,579 --> 00:10:47,913

FOR SPECIAL PHOTOGRAPHY

467

00:10:47,913 --> 00:10:49,882

LIKE MACRO PHOTOGRAPHY.

468

00:10:49,882 --> 00:10:50,750

WE NEED TO DO

469

00:10:50,750 --> 00:10:51,684

A LOT OF MACRO PHOTOGRAPHY

470

00:10:51,684 --> 00:10:53,052

FOR EQUIPMENT HERE.

471

00:10:53,052 --> 00:10:54,620

SOME WE JUST DEDICATED

472

00:10:54,620 --> 00:10:58,457

TO TAKE-- THERE WAS A MICRO--

473

00:10:58,457 --> 00:10:59,392

A MICRO SHOT, RIGHT?

474

00:10:59,392 --> 00:11:00,593

[ LAUGHTER ]

475

00:11:00,593 --> 00:11:02,061

>> TRY ONE WITH

476

00:11:02,061 --> 00:11:03,496

A TELE LENS HERE.

477

00:11:03,496 --> 00:11:04,864

SOME, LIKE THIS ONE,

478

00:11:04,864 --> 00:11:06,899

WE REALLY USE WHEN WE ARE

479

00:11:06,899 --> 00:11:09,168

POINTING AT EARTH AND WE HAVE

480

00:11:09,168 --> 00:11:10,336

SOME WINDOWS THAT HAVE

481

00:11:10,336 --> 00:11:12,538

A SPECIAL CAPABILITY

482

00:11:12,538 --> 00:11:14,040

OF LETTING US TAKE PICTURES

483

00:11:14,040 --> 00:11:15,307

WITH THIS LENS.

484

00:11:15,307 --> 00:11:18,944

AND THEN, WE HAVE-- WE ALSO

485

00:11:18,944 --> 00:11:21,013

HAVE A RED DRAGON CAMERA

486

00:11:21,013 --> 00:11:23,816

THAT WE USE FOR CINEMATOGRAPHY.

487

00:11:23,816 --> 00:11:27,686

WE HAVE VIDEO CAMERAS THAT

488

00:11:27,686 --> 00:11:30,756

ALLOW US TO TAKE HD PHOTOS.

489

00:11:30,756 --> 00:11:32,291  
I MEAN, I WOULD SAY THAT

490

00:11:32,291 --> 00:11:34,060  
FROM A POINT OF VIEW

491

00:11:34,060 --> 00:11:37,029  
OF CAMERAS, LENSES, SET-UP,

492

00:11:37,029 --> 00:11:37,997  
WE ARE ALL SET HERE.

493

00:11:37,997 --> 00:11:38,764  
WE HAVE EVERYTHING

494

00:11:38,764 --> 00:11:40,466  
THAT YOU CAN IMAGINE.

495

00:11:40,466 --> 00:11:42,334  
IT'S JUST WHAT IS MISSING

496

00:11:42,334 --> 00:11:43,335  
A LITTLE BIT IS THE TIME

497

00:11:43,335 --> 00:11:44,570  
BECAUSE IT TAKES TIME

498

00:11:44,570 --> 00:11:46,472  
TO BE THERE AT THE WINDOW.

499

00:11:46,472 --> 00:11:47,440  
IT'S NOT THAT YOU JUST

500

00:11:47,440 --> 00:11:48,374  
GO THERE AND YOU CAN TAKE

501  
00:11:48,374 --> 00:11:49,408  
A PICTURE AND LEAVE.

502  
00:11:49,408 --> 00:11:50,943  
IF YOU WANT TO HAVE SOMETHING

503  
00:11:50,943 --> 00:11:52,044  
THAT REALLY MAKES SENSE

504  
00:11:52,044 --> 00:11:53,779  
YOU NEED TO HAVE TO BE THERE

505  
00:11:53,779 --> 00:11:54,580  
AND STAY THERE AND

506  
00:11:54,580 --> 00:11:56,015  
UNDERSTAND-- BECAUSE

507  
00:11:56,015 --> 00:11:58,451  
IT'S A VERY QUICK CHANGING

508  
00:11:58,451 --> 00:11:59,418  
ENVIRONMENT HERE.

509  
00:11:59,418 --> 00:12:00,219  
YOU HAVE TO THINK THAT

510  
00:12:00,219 --> 00:12:01,887  
WE ARE FLYING AROUND EARTH

511  
00:12:01,887 --> 00:12:03,923  
AT ABOUT 4 MILES PER SECOND

512  
00:12:03,923 --> 00:12:05,691  
AND THINGS CHANGE

513  
00:12:05,691 --> 00:12:07,059

REALLY DRAMATICALLY

514

00:12:07,059 --> 00:12:08,294

AND REALLY QUICKLY.

515

00:12:08,294 --> 00:12:09,228

AND NOT ONLY THAT,

516

00:12:09,228 --> 00:12:10,629

YOU DON'T ALWAYS PASS OVER

517

00:12:10,629 --> 00:12:13,065

THE SAME PLACE WITH THE SAME

518

00:12:13,065 --> 00:12:13,899

CONDITIONS, ACTUALLY

519

00:12:13,899 --> 00:12:15,201

ALMOST NEVER.

520

00:12:15,201 --> 00:12:16,569

SO ALL THE CONDITIONS CHANGE

521

00:12:16,569 --> 00:12:18,104

CONTINUOUSLY-- THE SUN,

522

00:12:18,104 --> 00:12:22,241

THE CLOUD COVERAGE, THE SEASONS.

523

00:12:22,241 --> 00:12:24,443

I MEAN, THE COLORS, THE MOON,

524

00:12:24,443 --> 00:12:26,112

MAKES A LOT OF CHANGES

525

00:12:26,112 --> 00:12:27,880

DURING THE NIGHT.

526

00:12:27,880 --> 00:12:28,881

SO IT'S BEEN A QUITE

527

00:12:28,881 --> 00:12:30,282

INTERESTING TIME HERE

528

00:12:30,282 --> 00:12:32,151

IN TRYING TO TAKE ALL OF THIS

529

00:12:32,151 --> 00:12:33,953

ARMADA OF EQUIPMENT THAT

530

00:12:33,953 --> 00:12:35,588

WE HAVE AND TRY TO MAKE IT

531

00:12:35,588 --> 00:12:38,090

DO WHAT WE WANT IT TO DO.

532

00:12:38,090 --> 00:12:39,358

NOT ALWAYS HAPPENS, BUT

533

00:12:39,358 --> 00:12:41,060

SOMEBODY WILL GET REALLY GREAT,

534

00:12:41,060 --> 00:12:43,129

GREAT THINGS SOMETIMES.

535

00:12:43,129 --> 00:12:43,796

>> YEAH, SOUNDS LIKE

536

00:12:43,796 --> 00:12:44,864

THERE'S A PARTICULAR TECHNIQUE

537

00:12:44,864 --> 00:12:45,965

TO TAKE THE ABSOLUTE BEST

538

00:12:45,965 --> 00:12:47,166

PICTURES THAT YOU CAN.

539

00:12:47,166 --> 00:12:48,033

AND FROM WHAT YOU'RE SAYING,

540

00:12:48,033 --> 00:12:48,734

YOU HAVE TO BE THERE

541

00:12:48,734 --> 00:12:49,902

FOR QUITE SOME TIME.

542

00:12:49,902 --> 00:12:51,036

AND THIS IS JUST SOMETHING

543

00:12:51,036 --> 00:12:51,837

THAT I'VE ALWAYS BEEN

544

00:12:51,837 --> 00:12:52,805

INTERESTED IN ASKING,

545

00:12:52,805 --> 00:12:53,973

BUT I'M SURE THE CUPOLA IS

546

00:12:53,973 --> 00:12:55,341

JUST A HOT PLACE TO BE

547

00:12:55,341 --> 00:12:56,175

ON THE SPACE STATION

548

00:12:56,175 --> 00:12:57,943

TO GET THOSE PHOTOS.

549

00:12:57,943 --> 00:12:58,711

SO HOW DO YOU SHARE

550

00:12:58,711 --> 00:12:59,712

YOUR TIME?

551  
00:12:59,712 --> 00:13:00,980  
AND WHO GETS TO-- TO SEE

552  
00:13:00,980 --> 00:13:03,949  
WHO GETS TO GO IN THE CUPOLA?

553  
00:13:03,949 --> 00:13:05,351  
>> WELL, PAOLO'S THE BIGGEST

554  
00:13:05,351 --> 00:13:06,952  
SO HE ALWAYS GETS THE FIRST--

555  
00:13:06,952 --> 00:13:09,155  
HE GETS THE FIRST GO.

556  
00:13:09,155 --> 00:13:11,423  
THERE'S A LOT OF TIME

557  
00:13:11,423 --> 00:13:12,525  
IN THE DAY, BUT WE'RE REALLY

558  
00:13:12,525 --> 00:13:14,960  
BUSY AND SO IF SOMEBODY HAS

559  
00:13:14,960 --> 00:13:16,128  
AN INTEREST, THEY KNOW

560  
00:13:16,128 --> 00:13:16,896  
SOMETHING'S COMING UP

561  
00:13:16,896 --> 00:13:18,264  
THEY WANT TO SEE, THEY LET US

562  
00:13:18,264 --> 00:13:19,498  
ALL KNOW AND WE RESPECT THAT

563  
00:13:19,498 --> 00:13:21,667

AND LET THEM HAVE THAT SPACE.

564

00:13:21,667 --> 00:13:22,701

BUT SOMETIMES, THINGS MIGHT

565

00:13:22,701 --> 00:13:23,435

COME UP IN THE MIDDLE

566

00:13:23,435 --> 00:13:26,105

OF THE NIGHT, SO IT'S AT TIMES

567

00:13:26,105 --> 00:13:27,773

WE'RE ALL IN THERE BECAUSE

568

00:13:27,773 --> 00:13:28,707

SOMETHING IS SO COOL

569

00:13:28,707 --> 00:13:30,509

AND WE ALL WANT TO SEE IT.

570

00:13:30,509 --> 00:13:31,343

AND SOMETIMES, YOU'RE

571

00:13:31,343 --> 00:13:32,178

IN THERE BY YOURSELF

572

00:13:32,178 --> 00:13:33,379

JUST ENJOYING IT.

573

00:13:33,379 --> 00:13:34,046

AND SOMETIMES, YOU DON'T

574

00:13:34,046 --> 00:13:35,247

TAKE PICTURES.

575

00:13:35,247 --> 00:13:35,948

I'M NOT THE GREATEST

576

00:13:35,948 --> 00:13:36,949  
PHOTOGRAPHER SO I JUST

577

00:13:36,949 --> 00:13:38,083  
ENJOY GOING AND LOOKING

578

00:13:38,083 --> 00:13:39,518  
OUT THE WINDOW.

579

00:13:39,518 --> 00:13:40,786  
BUT EVERY NOW AND THEN,

580

00:13:40,786 --> 00:13:42,388  
WE WRESTLE FOR IT AND--

581

00:13:42,388 --> 00:13:43,556  
BUT WE MAKE IT WORK.

582

00:13:43,556 --> 00:13:44,356  
>> ALL RIGHT, THIS ONE'S

583

00:13:44,356 --> 00:13:45,624  
FOR JOE TOO FOR YOU.

584

00:13:45,624 --> 00:13:47,359  
I HAVE TO ASK FROM FACEBOOK,

585

00:13:47,359 --> 00:13:49,962  
JESSICA SAYS, "MY FIRST GRADERS

586

00:13:49,962 --> 00:13:50,796  
"WOULD LIKE TO KNOW

587

00:13:50,796 --> 00:13:51,664  
"WHAT YOUR FAVORITE PART

588

00:13:51,664 --> 00:13:52,798

"ABOUT SPACE IS?

589

00:13:52,798 --> 00:13:53,766

"JOE WAS MY MIDDLE SCHOOL

590

00:13:53,766 --> 00:13:55,768

"TEACHER AND NOW I'M A TEACHER."

591

00:13:55,768 --> 00:13:57,269

THAT'S PRETTY COOL.

592

00:13:57,269 --> 00:13:58,003

>> WOW!

593

00:13:58,003 --> 00:13:58,837

THAT'S VERY COOL.

594

00:13:58,837 --> 00:13:59,805

HELLO, JESSICA.

595

00:13:59,805 --> 00:14:01,574

GLAD THAT YOU'RE FOLLOWING US.

596

00:14:01,574 --> 00:14:03,242

THERE ARE SO MANY COOL THINGS

597

00:14:03,242 --> 00:14:05,044

ABOUT BEING IN SPACE.

598

00:14:05,044 --> 00:14:06,779

ONE OF THEM IS, OF COURSE,

599

00:14:06,779 --> 00:14:08,147

FLOATING AROUND.

600

00:14:08,147 --> 00:14:09,281

THESE GUYS ARE COOL

601  
00:14:09,281 --> 00:14:12,918  
AND THE RELATIONSHIPS THAT

602  
00:14:12,918 --> 00:14:14,186  
WE FORM ARE REALLY,

603  
00:14:14,186 --> 00:14:15,955  
REALLY COOL.

604  
00:14:15,955 --> 00:14:17,389  
SO I WOULD SAY BEING ABLE

605  
00:14:17,389 --> 00:14:18,857  
TO DO THIS AND JUST KIND OF

606  
00:14:18,857 --> 00:14:20,659  
HANG OUT IN ANY DIRECTION

607  
00:14:20,659 --> 00:14:22,261  
YOU WANT, YOU KIND OF FEEL

608  
00:14:22,261 --> 00:14:23,596  
LIKE A SUPERHERO,

609  
00:14:23,596 --> 00:14:25,464  
SO THAT'S PRETTY COOL.

610  
00:14:25,464 --> 00:14:26,365  
BUT AGAIN, LOOKING BACK

611  
00:14:26,365 --> 00:14:28,200  
AT THE EARTH IS SIMPLY AMAZING.

612  
00:14:28,200 --> 00:14:29,535  
SO JESSICA, I HOPE

613  
00:14:29,535 --> 00:14:31,637

## YOUR FIRST GRADERS GET INSPIRED

614

00:14:31,637 --> 00:14:33,505  
TO KEEP STUDYING HARD,

615

00:14:33,505 --> 00:14:35,040  
STUDYING THE STEM FIELDS,

616

00:14:35,040 --> 00:14:36,041  
AND HOPEFULLY THEY'LL BE

617

00:14:36,041 --> 00:14:37,176  
DOING MORE THAN WE'RE DOING

618

00:14:37,176 --> 00:14:38,844  
TODAY ON THE SPACE STATION

619

00:14:38,844 --> 00:14:39,678  
AND MAYBE THEY'LL BE

620

00:14:39,678 --> 00:14:40,846  
VISITING OTHER PLANETS.

621

00:14:40,846 --> 00:14:42,548  
SO THANKS A LOT.

622

00:14:42,548 --> 00:14:43,249  
>> THANKS, JOE.

623

00:14:43,249 --> 00:14:44,083  
AND I JUST HAVE TO MENTION

624

00:14:44,083 --> 00:14:45,017  
THAT SHE MENTIONED

625

00:14:45,017 --> 00:14:46,151  
IN THAT COMMENT THAT YOU WERE

626  
00:14:46,151 --> 00:14:47,820  
A FORMER CLASSROOM TEACHER

627  
00:14:47,820 --> 00:14:49,455  
AND YOU'RE UP THERE.

628  
00:14:49,455 --> 00:14:50,522  
FOLLOWING YOU WE'LL HAVE

629  
00:14:50,522 --> 00:14:51,790  
RICKY ARNOLD, WHO IS ALSO

630  
00:14:51,790 --> 00:14:53,425  
A FORMER CLASSROOM TEACHER.

631  
00:14:53,425 --> 00:14:55,060  
AND AS PART OF THAT,

632  
00:14:55,060 --> 00:14:56,028  
WE'RE REALLY TALKING A LOT

633  
00:14:56,028 --> 00:14:57,529  
ABOUT EDUCATION AND HOW

634  
00:14:57,529 --> 00:14:59,164  
IT RELATES TO THE SPACE STATION.

635  
00:14:59,164 --> 00:15:00,699  
SO YOU CAN GO LOOK UP

636  
00:15:00,699 --> 00:15:02,034  
STEM ON STATION AND

637  
00:15:02,034 --> 00:15:03,035  
THERE'S A WEBSITE OUT THERE,

638  
00:15:03,035 --> 00:15:03,969

AND EDUCATORS CAN FIND

639

00:15:03,969 --> 00:15:06,405

A LOT OF COOL RESOURCES THERE.

640

00:15:06,405 --> 00:15:07,573

>> ABSOLUTELY.

641

00:15:07,573 --> 00:15:08,340

>> ALL RIGHT, I GOT ANOTHER

642

00:15:08,340 --> 00:15:09,341

QUESTION ON FACEBOOK.

643

00:15:09,341 --> 00:15:10,809

THIS IS FROM JACE: "WERE YOU

644

00:15:10,809 --> 00:15:12,144

"ABLE TO OPERATE PROFESSIONAL

645

00:15:12,144 --> 00:15:13,178

"CAMERAS BEFORE BECOMING

646

00:15:13,178 --> 00:15:14,113

"ASTRONAUTS, OR DID YOU

647

00:15:14,113 --> 00:15:15,214

"LEARN ABOUT PHOTOGRAPHY

648

00:15:15,214 --> 00:15:17,650

"DURING TRAINING?"

649

00:15:17,650 --> 00:15:19,351

>> I NEVER TOUCHED

650

00:15:19,351 --> 00:15:20,319

A PROFESSIONAL CAMERA UNTIL

651

00:15:20,319 --> 00:15:22,187

I BECAME AN ASTRONAUT.

652

00:15:22,187 --> 00:15:22,988

AND THAT'S BEEN ONE OF

653

00:15:22,988 --> 00:15:24,123

THE REALLY NEAT OPPORTUNITIES

654

00:15:24,123 --> 00:15:25,090

ABOUT BEING AN ASTRONAUT

655

00:15:25,090 --> 00:15:27,626

IS THE-- LIKE THE VERY FANCY

656

00:15:27,626 --> 00:15:29,161

CAMERAS LIKE THE RED CAMERA

657

00:15:29,161 --> 00:15:30,229

THAT PAOLO MENTIONED.

658

00:15:30,229 --> 00:15:31,664

IT'S A PRETTY IMPRESSIVE

659

00:15:31,664 --> 00:15:33,299

ARRAY OF EQUIPMENT AND

660

00:15:33,299 --> 00:15:35,067

THE GREAT TRAINERS TO HELP US

661

00:15:35,067 --> 00:15:37,603

LEARN HOW TO USE THEM.

662

00:15:37,603 --> 00:15:38,504

>> SO SABOT, I MEAN,

663

00:15:38,504 --> 00:15:39,738

YOU'VE BEEN UP THERE-- THIS IS

664

00:15:39,738 --> 00:15:40,873

YOUR FIRST SPACE FLIGHT

665

00:15:40,873 --> 00:15:41,640

AND YOU HAVE A UNIQUE

666

00:15:41,640 --> 00:15:42,741

PERSPECTIVE BEING A FIRST TIME

667

00:15:42,741 --> 00:15:43,809

FLYER, BUT ESPECIALLY

668

00:15:43,809 --> 00:15:44,610

I WAS WATCHING YOU

669

00:15:44,610 --> 00:15:46,312

ON YOUR SPACEWALK AND YOU GOT

670

00:15:46,312 --> 00:15:48,047

A COUPLE MOMENTS TO-- DURING

671

00:15:48,047 --> 00:15:49,248

THE SPACEWALK LOOK DOWN

672

00:15:49,248 --> 00:15:50,382

AT THE EARTH.

673

00:15:50,382 --> 00:15:51,350

SO CAN YOU SORT OF DESCRIBE

674

00:15:51,350 --> 00:15:53,686

THAT EXPERIENCE?

675

00:15:56,722 --> 00:15:58,657

>> IT'S HARD TO TAKE IT ALL IN.

676

00:15:58,657 --> 00:16:01,994

IT'S SO MASSIVE.

677

00:16:01,994 --> 00:16:03,762

IT'S EVERYWHERE.

678

00:16:03,762 --> 00:16:04,563

THE THINGS THAT STUCK OUT

679

00:16:04,563 --> 00:16:06,665

IN MY MIND WERE SEEING--

680

00:16:06,665 --> 00:16:07,766

AT NIGHT, SEEING FLASHES

681

00:16:07,766 --> 00:16:09,068

OF LIGHTNING THAT WENT ON

682

00:16:09,068 --> 00:16:11,036

FOR ABOUT FIVE MINUTES.

683

00:16:11,036 --> 00:16:13,272

THE BRIGHT SUNLIGHT,

684

00:16:13,272 --> 00:16:14,807

IT WAS VERY IMPRESSIVE.

685

00:16:14,807 --> 00:16:15,941

IN FACT, I'LL NEVER FORGET

686

00:16:15,941 --> 00:16:17,476

WHEN-- ON THE VERY FIRST

687

00:16:17,476 --> 00:16:19,578

SPACEWALK WHEN RANDY OPENED

688

00:16:19,578 --> 00:16:22,548

THE HATCH THE AIRLOCK JUST

689

00:16:22,548 --> 00:16:23,682

LIT UP BECAUSE OF ALL

690

00:16:23,682 --> 00:16:24,983

THE REFLECTED LIGHT COMING FROM

691

00:16:24,983 --> 00:16:26,452

THE EARTH INTO THE AIRLOCK.

692

00:16:26,452 --> 00:16:27,119

AND THE AIRLOCK'S

693

00:16:27,119 --> 00:16:28,420

A VERY CONFINED PLACE.

694

00:16:28,420 --> 00:16:29,855

IT DOESN'T HAVE-- IT'S WELL LIT,

695

00:16:29,855 --> 00:16:32,358

BUT IT'S NOT LIT LIKE THE SUN,

696

00:16:32,358 --> 00:16:33,726

AND SO IT CHANGED THE FEELING

697

00:16:33,726 --> 00:16:35,027

OF THE AIRLOCK DRAMATICALLY

698

00:16:35,027 --> 00:16:35,894

WHEN THAT HATCH OPENED UP

699

00:16:35,894 --> 00:16:37,162

AND THEN IT REALLY FELT

700

00:16:37,162 --> 00:16:38,664

REAL TO ME.

701  
00:16:38,664 --> 00:16:39,832  
>> THAT'S AWESOME.

702  
00:16:39,832 --> 00:16:40,866  
ALL RIGHT, ANOTHER QUESTION.

703  
00:16:40,866 --> 00:16:41,967  
COLIN ON FACEBOOK WANTS

704  
00:16:41,967 --> 00:16:42,901  
TO KNOW, "IF YOU GUYS TAKE

705  
00:16:42,901 --> 00:16:46,105  
"SPACE SELFIES UP THERE?"

706  
00:16:46,105 --> 00:16:46,905  
MAYBE YOU GOT TO TAKE ONE

707  
00:16:46,905 --> 00:16:48,674  
ON YOUR SPACEWALK.

708  
00:16:48,674 --> 00:16:49,742  
>> [ INDISTINCT ].

709  
00:16:49,742 --> 00:16:51,477  
>> GO AHEAD, GO AHEAD.

710  
00:16:51,477 --> 00:16:52,945  
>> YEAH, I JUST POSTED

711  
00:16:52,945 --> 00:16:54,480  
SOMETHING FROM OUR LAST

712  
00:16:54,480 --> 00:16:56,081  
SPACEWALK ON TUESDAY WITH

713  
00:16:56,081 --> 00:16:58,283

THE SPACE SELFIE AND TRIED

714

00:16:58,283 --> 00:17:00,219  
TO EXPLAIN TO PEOPLE BECAUSE

715

00:17:00,219 --> 00:17:01,920  
YOU GOT THESE BIG INFLATED

716

00:17:01,920 --> 00:17:03,422  
GLOVES ON AND YOU'RE TRYING

717

00:17:03,422 --> 00:17:04,656  
TO TAKE THIS CAMERA.

718

00:17:04,656 --> 00:17:06,125  
AND IT'S LIKE IF YOU WENT

719

00:17:06,125 --> 00:17:08,260  
TO YOUR OVEN, AND GRABBED

720

00:17:08,260 --> 00:17:09,395  
YOUR OVEN MITTS, AND THEN

721

00:17:09,395 --> 00:17:10,129  
GRABBED YOUR CAMERA

722

00:17:10,129 --> 00:17:11,397  
AND TRIED TO TAKE THE SELFIE.

723

00:17:11,397 --> 00:17:12,264  
THAT'S WHAT IT'S KIND OF LIKE

724

00:17:12,264 --> 00:17:14,066  
IN SPACE TRYING TO DO THAT,

725

00:17:14,066 --> 00:17:15,467  
AND LINE IT UP, AND FEEL FOR

726  
00:17:15,467 --> 00:17:16,869  
THE BUTTON, AND GET THE SHOT.

727  
00:17:16,869 --> 00:17:17,936  
SO YOU END UP TRYING TO

728  
00:17:17,936 --> 00:17:19,171  
SQUEEZE IT A FEW TIMES.

729  
00:17:19,171 --> 00:17:20,005  
HOPEFULLY YOU SEE MAYBE

730  
00:17:20,005 --> 00:17:20,906  
THE SHUTTER ACTUALLY

731  
00:17:20,906 --> 00:17:21,840  
TOOK THE PICTURE.

732  
00:17:21,840 --> 00:17:22,574  
AND THEN YOU COME BACK

733  
00:17:22,574 --> 00:17:23,375  
INSIDE LATER ON AND GO,

734  
00:17:23,375 --> 00:17:25,677  
"HEY, DID I GET ANYTHING?"

735  
00:17:25,677 --> 00:17:27,780  
>> SO PAOLO, WE WERE KIND OF

736  
00:17:27,780 --> 00:17:29,148  
LOOKING AT SOME OF YOUR PHOTOS

737  
00:17:29,148 --> 00:17:30,115  
ON TWITTER, JUST THE ONES

738  
00:17:30,115 --> 00:17:31,383

THAT YOU'RE SHARING.

739

00:17:31,383 --> 00:17:33,986

I SEE A LOT OF AMAZING

740

00:17:33,986 --> 00:17:35,087

PICTURES OF ITALY, BUT

741

00:17:35,087 --> 00:17:35,954

ONE THAT REALLY STUCK OUT

742

00:17:35,954 --> 00:17:37,022

IN MY MIND WAS A PICTURE

743

00:17:37,022 --> 00:17:38,357

OF MADAGASCAR AND

744

00:17:38,357 --> 00:17:39,825

THE LOGGING GOING ON THERE.

745

00:17:39,825 --> 00:17:40,759

JUST FROM THE PERSPECTIVE

746

00:17:40,759 --> 00:17:42,227

THAT YOU SEE OF THE EARTH,

747

00:17:42,227 --> 00:17:44,029

WHAT SORTS OF IDEAS OF HUMAN

748

00:17:44,029 --> 00:17:45,697

INFLUENCE DO YOU SEE FROM

749

00:17:45,697 --> 00:17:48,867

250 MILES ABOVE THE EARTH?

750

00:17:48,867 --> 00:17:50,803

>> WELL, WHEN YOU COME UP HERE

751  
00:17:50,803 --> 00:17:52,504  
AND YOU LOOK OUT OF THE WINDOW,

752  
00:17:52,504 --> 00:17:53,405  
AND MOST OF THE TIME

753  
00:17:53,405 --> 00:17:55,741  
YOU SEE OCEAN AND CLOUDS,

754  
00:17:55,741 --> 00:17:57,409  
AND THEN SOMETIMES YOU EVEN

755  
00:17:57,409 --> 00:17:58,610  
HAVE DIFFICULTIES ON SEEING

756  
00:17:58,610 --> 00:18:00,712  
THE ACTUAL GROUND,

757  
00:18:00,712 --> 00:18:02,281  
THE CONTINENTS.

758  
00:18:02,281 --> 00:18:03,615  
AND THEN LITTLE BY LITTLE

759  
00:18:03,615 --> 00:18:04,650  
YOU START ACQUIRING

760  
00:18:04,650 --> 00:18:06,552  
THIS ACUITY, YOU LITERALLY

761  
00:18:06,552 --> 00:18:07,853  
START SEEING DETAILS.

762  
00:18:07,853 --> 00:18:09,121  
AND AT THE BEGINNING,

763  
00:18:09,121 --> 00:18:10,389

THE HUMAN PRESENCE IS NOT

764

00:18:10,389 --> 00:18:11,723

SO EVIDENT, AND THEN IT BECOMES

765

00:18:11,723 --> 00:18:13,926

MORE AND MORE AND MORE EVIDENT,

766

00:18:13,926 --> 00:18:14,927

UP TO THE POINT THAT

767

00:18:14,927 --> 00:18:16,295

WHEN YOU GO THERE AND

768

00:18:16,295 --> 00:18:17,830

IT'S NIGHT YOU ESSENTIALLY

769

00:18:17,830 --> 00:18:19,631

SEE THE PLANET LIT UP,

770

00:18:19,631 --> 00:18:21,033

ALL THE CONTINENT'S LIT UP

771

00:18:21,033 --> 00:18:23,335

LIKE A CHRISTMAS TREE.

772

00:18:23,335 --> 00:18:25,170

AND IN SOME OF THE PLACES

773

00:18:25,170 --> 00:18:27,339

IN EUROPE AND THE UNITED STATES

774

00:18:27,339 --> 00:18:30,309

THE PRESENCE OF THE HUMAN

775

00:18:30,309 --> 00:18:32,811

BEINGS, IT'S INCREDIBLE.

776  
00:18:32,811 --> 00:18:35,214  
AND THEN, YOU START FOCUSING

777  
00:18:35,214 --> 00:18:36,315  
ON OTHER THINGS, LIKE

778  
00:18:36,315 --> 00:18:39,651  
YOU SEE RIVERS, YOU SEE

779  
00:18:39,651 --> 00:18:41,587  
HOW THERE'S A SHAPE.

780  
00:18:41,587 --> 00:18:42,888  
YOU SEE HOW THINGS HAVE

781  
00:18:42,888 --> 00:18:45,224  
CHANGED, HOW HAS HUMAN BEINGS

782  
00:18:45,224 --> 00:18:47,960  
HAVE TRYING TO MODEL NATURE

783  
00:18:47,960 --> 00:18:49,495  
ACCORDING TO OUR NEEDS

784  
00:18:49,495 --> 00:18:51,497  
AND NOT OURSELF ACCORDING TO

785  
00:18:51,497 --> 00:18:53,131  
THE NEEDS OF NATURE.

786  
00:18:53,131 --> 00:18:55,100  
AND THIS CHANGE BECOMES

787  
00:18:55,100 --> 00:18:56,668  
REALLY APPARENT.

788  
00:18:56,668 --> 00:18:57,603

THERE IN THAT PICTURE THAT

789

00:18:57,603 --> 00:18:59,605

YOU'RE REFERRING TO, YOU SEE

790

00:18:59,605 --> 00:19:04,009

ESSENTIALLY ALL THE RED DIRT

791

00:19:04,009 --> 00:19:05,310

THAT IS WASHING OVER

792

00:19:05,310 --> 00:19:06,245

ON THE OCEAN.

793

00:19:06,245 --> 00:19:09,214

NOT ANYMORE KEPT BY THE FOREST

794

00:19:09,214 --> 00:19:11,183

BY THE PLANTS-- BY THE PLANTS

795

00:19:11,183 --> 00:19:12,651

THERE IN MADAGASCAR.

796

00:19:12,651 --> 00:19:14,753

AND THIS IS SO EVIDENT.

797

00:19:14,753 --> 00:19:19,057

IT'S REALLY CLEAR FROM UP HERE

798

00:19:19,057 --> 00:19:21,026

THAT WE ARE A MAJOR FORCE

799

00:19:21,026 --> 00:19:22,394

INTO THIS PLANET AND WE ARE

800

00:19:22,394 --> 00:19:24,596

CHANGING NATURE.

801  
00:19:24,596 --> 00:19:25,931  
IS THAT GOOD, IS THAT BAD?

802  
00:19:25,931 --> 00:19:27,866  
I'M NOT SURE ABOUT IT.

803  
00:19:27,866 --> 00:19:29,468  
FOR SURE WE PROBABLY NEED TO

804  
00:19:29,468 --> 00:19:30,502  
PAY ATTENTION TO WHAT WE ARE

805  
00:19:30,502 --> 00:19:31,637  
DOING IF WE WANT TO KEEP

806  
00:19:31,637 --> 00:19:33,138  
THE ENVIRONMENT AS IT IS

807  
00:19:33,138 --> 00:19:35,741  
TODAY OR YESTERDAY.

808  
00:19:35,741 --> 00:19:37,042  
>> SIMILAR TO THAT, NATALIE IS

809  
00:19:37,042 --> 00:19:38,310  
ASKING, "IF YOU'VE OBSERVED

810  
00:19:38,310 --> 00:19:39,778  
"A CHANGE IN COLOR OF

811  
00:19:39,778 --> 00:19:41,013  
"THE SUNRISES AND SUNSETS

812  
00:19:41,013 --> 00:19:42,548  
"DUE TO THE WILDFIRES

813  
00:19:42,548 --> 00:19:43,782

"ACROSS NORTH AMERICA?

814

00:19:43,782 --> 00:19:44,950

"OR MAYBE IF YOU'VE BEEN ABLE

815

00:19:44,950 --> 00:19:46,552

"TO SEE ANYTHING,

816

00:19:46,552 --> 00:19:49,221

"ANY OF THE WILDFIRES?"

817

00:19:49,221 --> 00:19:50,556

>> WE'VE SEEN THE WILDFIRES

818

00:19:50,556 --> 00:19:51,423

WHEN WE WERE OVER IN OREGON

819

00:19:51,423 --> 00:19:54,726

AND WASHINGTON LAST MONTH.

820

00:19:54,726 --> 00:19:55,427

UNFORTUNATELY, THE WAY

821

00:19:55,427 --> 00:19:56,929

OUR DAY CYCLE WORKS, WE'RE NOT

822

00:19:56,929 --> 00:19:57,796

GOING OVER CALIFORNIA

823

00:19:57,796 --> 00:19:58,864

AT TIME WHERE WE'RE

824

00:19:58,864 --> 00:19:59,865

TYPICALLY LOOKING OUTSIDE

825

00:19:59,865 --> 00:20:01,333

DURING DAYLIGHT.

826

00:20:01,333 --> 00:20:02,367

SO NONE OF US HAVE REALLY

827

00:20:02,367 --> 00:20:03,702

SEEN THE NORTHERN CALIFORNIA

828

00:20:03,702 --> 00:20:05,370

WILDFIRES THAT MUCH YET.

829

00:20:05,370 --> 00:20:06,238

YOU CAN SEE CERTAINLY

830

00:20:06,238 --> 00:20:07,306

THE SMOKE OBSCURES

831

00:20:07,306 --> 00:20:09,107

THE LOOK DOWN, BUT HAVEN'T SEEN

832

00:20:09,107 --> 00:20:11,443

ANY CHANGES TO THE OVERALL

833

00:20:11,443 --> 00:20:12,511

ATMOSPHERE OR THE COLOR

834

00:20:12,511 --> 00:20:13,278

OF THE SUN BECAUSE

835

00:20:13,278 --> 00:20:14,346

IT'S JUST NOT THAT MANY--

836

00:20:14,346 --> 00:20:15,314

THAT MUCH PARTICULATE

837

00:20:15,314 --> 00:20:15,948

WHEN YOU'RE LOOKING AT IT

838

00:20:15,948 --> 00:20:18,050

AT A GLOBAL SCALE.

839

00:20:18,050 --> 00:20:18,850

>> SO KOMRADE, KIND OF

840

00:20:18,850 --> 00:20:20,686

SIMILAR QUESTION.

841

00:20:20,686 --> 00:20:22,087

RECENTLY, AGAIN, WE WERE

842

00:20:22,087 --> 00:20:23,155

LOOKING AT A LOT OF THE PHOTOS

843

00:20:23,155 --> 00:20:23,956

THAT YOU'RE SHARING

844

00:20:23,956 --> 00:20:25,724

ON SOCIAL MEDIA, BUT RECENTLY

845

00:20:25,724 --> 00:20:26,558

THERE'VE BEEN QUITE A FEW

846

00:20:26,558 --> 00:20:27,626

HURRICANES THAT HAVE HIT

847

00:20:27,626 --> 00:20:28,994

THE UNITED STATES,

848

00:20:28,994 --> 00:20:29,995

PUERTO RICO, A LOT OF

849

00:20:29,995 --> 00:20:31,263

THE CARIBBEAN ISLANDS AND

850

00:20:31,263 --> 00:20:32,397

YOU SHARED YOUR PERSPECTIVE

851  
00:20:32,397 --> 00:20:33,799  
OF THAT VIEW.

852  
00:20:33,799 --> 00:20:34,566  
CAN YOU-- I MEAN,

853  
00:20:34,566 --> 00:20:35,734  
THE PICTURES CAN TELL

854  
00:20:35,734 --> 00:20:36,735  
ONE STORY, BUT JUST

855  
00:20:36,735 --> 00:20:37,869  
FROM YOUR PERSPECTIVE,

856  
00:20:37,869 --> 00:20:38,870  
WHAT WAS IT LIKE SEEING IT

857  
00:20:38,870 --> 00:20:41,273  
FROM THE SPACE STATION?

858  
00:20:41,273 --> 00:20:43,542  
>> CERTAINLY, THE FORMATION

859  
00:20:43,542 --> 00:20:45,077  
OF WEATHER CAN BE A REAL

860  
00:20:45,077 --> 00:20:46,311  
BEAUTIFUL THING AND

861  
00:20:46,311 --> 00:20:47,346  
HURRICANES HAVE THEIR OWN

862  
00:20:47,346 --> 00:20:49,214  
SHAPE AND DO AMAZING THINGS

863  
00:20:49,214 --> 00:20:50,482

WITH THE CLOUDS.

864

00:20:50,482 --> 00:20:51,917

BUT IT'S WHEN YOU REALIZE

865

00:20:51,917 --> 00:20:52,751

THE DESTRUCTIVE POWER

866

00:20:52,751 --> 00:20:53,619

UNDERNEATH IT IT CEASES

867

00:20:53,619 --> 00:20:54,886

BEING AS BEAUTIFUL.

868

00:20:54,886 --> 00:20:55,921

AND CERTAINLY, THE FIRST ONE

869

00:20:55,921 --> 00:20:57,889

FOR US WAS HURRICANE HARVEY

870

00:20:57,889 --> 00:20:58,790

THAT WENT RIGHT OVER

871

00:20:58,790 --> 00:20:59,925

OUR FAMILIES, AND OUR HOMES,

872

00:20:59,925 --> 00:21:00,959

AND OUR FRIENDS,

873

00:21:00,959 --> 00:21:02,194

AND MISSION CONTROL

874

00:21:02,194 --> 00:21:03,629

DOWN THERE IN HOUSTON.

875

00:21:03,629 --> 00:21:05,831

AND SO, THAT WAS-- YOU SAY,

876

00:21:05,831 --> 00:21:06,698

"TOO CLOSE TO HOME."

877

00:21:06,698 --> 00:21:08,533

WELL, THAT WAS AT HOME

878

00:21:08,533 --> 00:21:10,135

SO THAT WAS TOO CLOSE

879

00:21:10,135 --> 00:21:11,236

TO HOME FOR US.

880

00:21:11,236 --> 00:21:12,738

SO THEN THE PARADE

881

00:21:12,738 --> 00:21:14,272

OF HURRICANES AFTER THAT

882

00:21:14,272 --> 00:21:15,774

WAS JUST DISHEARTENING

883

00:21:15,774 --> 00:21:16,842

BECAUSE THERE WERE JUST

884

00:21:16,842 --> 00:21:17,843

SO MANY, AND SO MANY PEOPLE

885

00:21:17,843 --> 00:21:18,810

AFFECTED, AND SO MUCH

886

00:21:18,810 --> 00:21:21,413

DEVASTATION THAT IT-- WE WERE

887

00:21:21,413 --> 00:21:22,748

TAKING PICTURES TO HOPEFULLY

888

00:21:22,748 --> 00:21:24,950

HELP THE RESEARCHERS THAT

889

00:21:24,950 --> 00:21:26,084

ARE USING THOSE TO FIGURE OUT

890

00:21:26,084 --> 00:21:27,052

HOW HURRICANES FORM,

891

00:21:27,052 --> 00:21:28,687

HOW THEY CONTINUE TO MANIFEST

892

00:21:28,687 --> 00:21:30,088

THEMSELVES, WHAT WE CAN DO

893

00:21:30,088 --> 00:21:31,323

TO PROTECT OURSELVES.

894

00:21:31,323 --> 00:21:32,758

AND THEN, IT WAS TAKING

895

00:21:32,758 --> 00:21:34,259

PICTURES AFTERWARDS,

896

00:21:34,259 --> 00:21:35,494

HIGH RESOLUTION PHOTOGRAPHY,

897

00:21:35,494 --> 00:21:36,428

MAPPING THE AREAS

898

00:21:36,428 --> 00:21:38,196

TO SHOW WHERE THERE WAS

899

00:21:38,196 --> 00:21:40,232

FLOODING OR DESTRUCTION THAT

900

00:21:40,232 --> 00:21:41,199

WE DIDN'T KNOW ABOUT

901  
00:21:41,199 --> 00:21:42,134  
AT THAT POINT BECAUSE

902  
00:21:42,134 --> 00:21:42,901  
THERE STILL WASN'T

903  
00:21:42,901 --> 00:21:45,704  
COMMUNICATION OR CAMERA CREWS

904  
00:21:45,704 --> 00:21:46,405  
WERE ABLE TO GO OUT

905  
00:21:46,405 --> 00:21:48,974  
AND PICTURE STUFF.

906  
00:21:48,974 --> 00:21:50,942  
SO IT WAS AN UNFORTUNATE

907  
00:21:50,942 --> 00:21:52,010  
PROJECT THAT WE ENDED UP

908  
00:21:52,010 --> 00:21:53,178  
DOING, BUT HOPEFULLY

909  
00:21:53,178 --> 00:21:54,813  
THE WORK WE DID UP HERE

910  
00:21:54,813 --> 00:21:56,014  
TRANSLATES INTO SOME SCIENCE,

911  
00:21:56,014 --> 00:21:56,782  
AND WE'RE ABLE TO TRANSLATE IT

912  
00:21:56,782 --> 00:21:58,417  
INTO ACTUAL PRACTICAL STUFF

913  
00:21:58,417 --> 00:21:59,151

THAT'LL HELP PEOPLE

914

00:21:59,151 --> 00:22:00,385

IN THE FUTURE.

915

00:22:00,385 --> 00:22:00,952

>> I WOULD THINK IT DID.

916

00:22:00,952 --> 00:22:01,987

IT'S SUCH A UNIQUE PERSPECTIVE.

917

00:22:01,987 --> 00:22:02,854

>> YEAH, ABSOLUTELY.

918

00:22:02,854 --> 00:22:04,222

SEEING THE HURRICANES AND

919

00:22:04,222 --> 00:22:05,257

THE FLOODING AND ALL OF THAT

920

00:22:05,257 --> 00:22:07,526

FROM SPACE IS JUST REALLY

921

00:22:07,526 --> 00:22:09,861

AN OUTSIDE PERSPECTIVE THAT

922

00:22:09,861 --> 00:22:11,163

YOU JUST CAN'T SEE WHEN

923

00:22:11,163 --> 00:22:12,898

YOU ARE RIGHT HERE NEXT TO IT.

924

00:22:12,898 --> 00:22:14,433

SO IT'S VERY INTERESTING.

925

00:22:14,433 --> 00:22:15,801

AND SIMILAR TO THAT, NATALIE

926  
00:22:15,801 --> 00:22:16,835  
WANTS TO KNOW IF YOU COULD

927  
00:22:16,835 --> 00:22:17,703  
TALK TO US ABOUT

928  
00:22:17,703 --> 00:22:19,037  
THE WOLF RACK, WHAT TYPES

929  
00:22:19,037 --> 00:22:20,138  
OF PHOTOS DO YOU TAKE

930  
00:22:20,138 --> 00:22:21,807  
FROM THERE, AND HOW DO YOU USE

931  
00:22:21,807 --> 00:22:23,875  
PHOTOGRAPHY FOR SCIENCE.

932  
00:22:23,875 --> 00:22:25,477  
>> YEAH, SO WE HAVE VARIOUS

933  
00:22:25,477 --> 00:22:26,578  
PROJECTS THAT WE'LL DO,

934  
00:22:26,578 --> 00:22:27,713  
AND ACTUALLY THE WOLF RACK

935  
00:22:27,713 --> 00:22:29,881  
IS RIGHT HERE BENEATH US.

936  
00:22:29,881 --> 00:22:31,817  
IT'S ONE OF THE BEST

937  
00:22:31,817 --> 00:22:32,684  
WINDOWS THAT WE HAVE

938  
00:22:32,684 --> 00:22:34,052

ON THE SPACE STATION.

939

00:22:34,052 --> 00:22:35,454  
IT'S VERY WELL PROTECTED,

940

00:22:35,454 --> 00:22:36,722  
SO VERY PRISTINE, AND WE CAN

941

00:22:36,722 --> 00:22:38,957  
GET SOME REALLY COOL PHOTOS.

942

00:22:38,957 --> 00:22:40,926  
UNFORTUNATELY FOR US,

943

00:22:40,926 --> 00:22:41,927  
IT'S USUALLY COVERED UP,

944

00:22:41,927 --> 00:22:43,095  
SO WE DON'T GET AN OPPORTUNITY

945

00:22:43,095 --> 00:22:44,529  
TO USE IT TOO OFTEN.

946

00:22:44,529 --> 00:22:45,797  
BUT THERE'S A LOT OF SCIENCE

947

00:22:45,797 --> 00:22:46,932  
THAT GOES ON.

948

00:22:46,932 --> 00:22:48,033  
I KNOW WHEN I WAS HERE

949

00:22:48,033 --> 00:22:49,801  
LAST TIME, WE HAD THE EARTHCAM

950

00:22:49,801 --> 00:22:51,837  
PROJECT GOING ON WHERE

951  
00:22:51,837 --> 00:22:53,004  
MIDDLE SCHOOL CHILDREN

952  
00:22:53,004 --> 00:22:55,040  
WERE TAKING PHOTOS AND

953  
00:22:55,040 --> 00:22:57,542  
LEARNING ABOUT THOSE DIFFERENT

954  
00:22:57,542 --> 00:22:59,244  
PARTS OF THE WORLD.

955  
00:22:59,244 --> 00:23:00,412  
WE WERE ALSO USING IT

956  
00:23:00,412 --> 00:23:01,780  
FOR AGRICULTURAL PURPOSES

957  
00:23:01,780 --> 00:23:02,881  
TO MAP DIFFERENT THINGS,

958  
00:23:02,881 --> 00:23:05,550  
SO IT'S A MULTIPURPOSE WINDOW,

959  
00:23:05,550 --> 00:23:07,753  
AND IT IS JUST A VERY UNIQUE

960  
00:23:07,753 --> 00:23:09,821  
PERSPECTIVE THAT YOU CAN GET

961  
00:23:09,821 --> 00:23:10,889  
FROM HERE.

962  
00:23:10,889 --> 00:23:11,656  
AND THEN YOU CAN PUT

963  
00:23:11,656 --> 00:23:12,390

## THE CAMERAS AT DIFFERENT

964

00:23:12,390 --> 00:23:14,192

ANGLES, YOU CAN DO

965

00:23:14,192 --> 00:23:15,193

THE DIFFERENT TIMES OF THE YEAR,

966

00:23:15,193 --> 00:23:16,228

DIFFERENT TIMES OF THE DAY.

967

00:23:16,228 --> 00:23:16,928

SO IT HAS A LOT

968

00:23:16,928 --> 00:23:17,796

OF FLEXIBILITY.

969

00:23:17,796 --> 00:23:19,264

IT'S PRETTY COOL.

970

00:23:19,264 --> 00:23:19,965

>> THERE'S ALSO-- I KNOW

971

00:23:19,965 --> 00:23:20,732

WE'VE DONE-- THERE'S

972

00:23:20,732 --> 00:23:21,633

AN EXPERIMENT THAT'S BEEN

973

00:23:21,633 --> 00:23:24,035

GOING ON WITH ANALYZING

974

00:23:24,035 --> 00:23:26,371

THE SPECTRUM OF METEORS THAT

975

00:23:26,371 --> 00:23:27,272

ARE FALLING TOWARDS THE EARTH

976  
00:23:27,272 --> 00:23:29,174  
AND USING DIFFRACTION

977  
00:23:29,174 --> 00:23:31,143  
GRATINGS WITH THE LENS.

978  
00:23:31,143 --> 00:23:32,144  
SO THERE'S SOME REALLY

979  
00:23:32,144 --> 00:23:32,978  
INTERESTING SCIENCE THAT

980  
00:23:32,978 --> 00:23:35,247  
CAN COME OUT OF PHOTOGRAPHY.

981  
00:23:35,247 --> 00:23:36,882  
>> SO SABOT AND JOE,

982  
00:23:36,882 --> 00:23:38,183  
BOTH OF YOU HAVE BEEN EDUCATORS

983  
00:23:38,183 --> 00:23:41,453  
IN THE PAST, AND-- JOE JUST

984  
00:23:41,453 --> 00:23:42,788  
BEING A MIDDLE SCHOOL

985  
00:23:42,788 --> 00:23:46,491  
TEACHER, AND SABOT WITH--

986  
00:23:46,491 --> 00:23:47,959  
AT WEST POINT.

987  
00:23:47,959 --> 00:23:50,662  
BUT IS THERE SORT OF

988  
00:23:50,662 --> 00:23:52,330

AN EDUCATION PERSPECTIVE THAT

989

00:23:52,330 --> 00:23:55,333

YOU CAN DO FROM SHARING

990

00:23:55,333 --> 00:23:56,401

YOUR VIEW OF THE EARTH?

991

00:23:56,401 --> 00:23:57,102

OR MAYBE SOME OTHER

992

00:23:57,102 --> 00:23:57,969

EXPERIMENTS YOU'RE DOING

993

00:23:57,969 --> 00:23:59,371

ONBOARD THE STATION THAT

994

00:23:59,371 --> 00:24:00,005

YOU CAN USE TO SHARE

995

00:24:00,005 --> 00:24:02,040

WITH OTHERS.

996

00:24:02,040 --> 00:24:02,841

>> WELL, I THINK AS

997

00:24:02,841 --> 00:24:04,109

AN EDUCATOR, ONE OF THE MOST

998

00:24:04,109 --> 00:24:05,510

IMPORTANT TOOLS THAT YOU CAN

999

00:24:05,510 --> 00:24:08,346

HAVE IS SHARING EXPERIENCES

1000

00:24:08,346 --> 00:24:10,048

AND REAL LIFE EXPERIENCES.

1001  
00:24:10,048 --> 00:24:12,184  
SO AS MUCH AS WE CAN DO THAT

1002  
00:24:12,184 --> 00:24:13,451  
TO HELP TEACHERS THAT ARE

1003  
00:24:13,451 --> 00:24:15,220  
OUT THERE AND PROVIDE THEM

1004  
00:24:15,220 --> 00:24:17,689  
MORE TOOLS TO DO THEIR JOB.

1005  
00:24:17,689 --> 00:24:18,590  
SINCE WE'VE BEEN HERE,

1006  
00:24:18,590 --> 00:24:19,858  
IT'S BEEN NON-STOP.

1007  
00:24:19,858 --> 00:24:20,625  
IT'S KIND OF LIKE

1008  
00:24:20,625 --> 00:24:21,860  
THE BEGINNING OF THE SCHOOL

1009  
00:24:21,860 --> 00:24:22,661  
YEAR, WHERE YOU'RE KIND OF

1010  
00:24:22,661 --> 00:24:23,628  
GETTING ON YOUR FEET,

1011  
00:24:23,628 --> 00:24:25,297  
GETTING THE BALL ROLLING.

1012  
00:24:25,297 --> 00:24:26,231  
BUT THEN WE HAD DRAGON,

1013  
00:24:26,231 --> 00:24:27,666

AND THEN WE HAD TWO SPACEWALKS

1014

00:24:27,666 --> 00:24:29,968

ALREADY, SO TO BE HONEST

1015

00:24:29,968 --> 00:24:31,670

WITH YOU, THAT'S THE KIND

1016

00:24:31,670 --> 00:24:32,504

OF EXPERIENCE THAT

1017

00:24:32,504 --> 00:24:34,005

WE WANT TO SHARE.

1018

00:24:34,005 --> 00:24:35,640

AND HOPEFULLY BY DOING THAT

1019

00:24:35,640 --> 00:24:38,243

AND BY RECORDING THAT,

1020

00:24:38,243 --> 00:24:40,512

WHETHER IT'S WITH PHOTOS,

1021

00:24:40,512 --> 00:24:42,280

VIDEO-- WE CAN SHARE

1022

00:24:42,280 --> 00:24:43,381

THAT EXPERIENCES WITH TEACHERS

1023

00:24:43,381 --> 00:24:44,249

WHO CAN THEN SHARE THAT

1024

00:24:44,249 --> 00:24:46,384

WITH THEIR STUDENTS.

1025

00:24:46,384 --> 00:24:47,752

>> THAT'S AWESOME.

1026  
00:24:47,752 --> 00:24:48,620  
IT'S SO INTERESTING

1027  
00:24:48,620 --> 00:24:49,921  
TO SO MANY OF US DOWN HERE,

1028  
00:24:49,921 --> 00:24:51,389  
SO WE APPRECIATE BEING ABLE

1029  
00:24:51,389 --> 00:24:52,591  
TO HEAR ABOUT THE AWESOME WORK

1030  
00:24:52,591 --> 00:24:54,426  
YOU GUYS ARE DOING.

1031  
00:24:54,426 --> 00:24:55,560  
I HAVE TO MENTION, KOMRADE,

1032  
00:24:55,560 --> 00:24:56,428  
I'M GETTING A LOT OF COMMENTS

1033  
00:24:56,428 --> 00:24:58,096  
ON FACEBOOK ABOUT YOUR SHIRT--

1034  
00:24:58,096 --> 00:24:59,231  
PEOPLE REALLY LOVE IT,

1035  
00:24:59,231 --> 00:25:01,933  
SO I HAD TO TELL YOU THAT.

1036  
00:25:01,933 --> 00:25:03,768  
JOSEPH WANTS TO KNOW,

1037  
00:25:03,768 --> 00:25:05,437  
"WHAT'S THE MOST AMAZING

1038  
00:25:05,437 --> 00:25:06,605

"PHOTO YOU TOOK?"

1039

00:25:06,605 --> 00:25:07,505

SO DOES ANYBODY HAVE

1040

00:25:07,505 --> 00:25:11,877

A FAVORITE PICTURE YET SO FAR?

1041

00:25:11,877 --> 00:25:16,548

>> IT'S-- IT'S RELATIVELY EASY

1042

00:25:16,548 --> 00:25:18,717

UP HERE TO DO TIME LAPSES,

1043

00:25:18,717 --> 00:25:19,951

WHICH MEANS A LOT OF PHOTOS.

1044

00:25:19,951 --> 00:25:23,188

AND THEY CAN GO GOOD

1045

00:25:23,188 --> 00:25:24,623

OR TOTALLY BAD.

1046

00:25:24,623 --> 00:25:26,057

I MEAN, I'VE DONE THOUSAND

1047

00:25:26,057 --> 00:25:27,993

PICTURE COMPLETELY WASTED.

1048

00:25:27,993 --> 00:25:29,561

THANK GOD IT'S NOT FILM

1049

00:25:29,561 --> 00:25:31,229

ANYMORE AND ELECTRONS

1050

00:25:31,229 --> 00:25:32,864

DON'T COST TOO MUCH.

1051  
00:25:32,864 --> 00:25:35,033  
BUT I GOT A COUPLE OF

1052  
00:25:35,033 --> 00:25:36,868  
TIME LAPSES PRETTY GOOD.

1053  
00:25:36,868 --> 00:25:38,069  
THE ONE THAT I THINK WAS

1054  
00:25:38,069 --> 00:25:39,537  
PROBABLY THE BEST IS ONE OF

1055  
00:25:39,537 --> 00:25:43,375  
THE AURORA IN THE NORTH.

1056  
00:25:43,375 --> 00:25:46,578  
SO IT WAS AURORA BOREALIS.

1057  
00:25:46,578 --> 00:25:48,580  
AND I CAN-- I DON'T KNOW

1058  
00:25:48,580 --> 00:25:49,981  
THAT NIGHT WHAT HAPPENED,

1059  
00:25:49,981 --> 00:25:51,683  
BUT THE SPACE OF THE AURORA,

1060  
00:25:51,683 --> 00:25:53,518  
THE COLORS TOWARD THE GROUND,

1061  
00:25:53,518 --> 00:25:55,153  
AND THE SHADOWS WENT

1062  
00:25:55,153 --> 00:25:57,188  
ALL THE WAY DOWN UNDER US.

1063  
00:25:57,188 --> 00:25:58,156

AND THIS WAS, TO ME,

1064

00:25:58,156 --> 00:26:00,358

INCREDIBLE, ALL THAT SEQUENCE

1065

00:26:00,358 --> 00:26:02,527

OF PICTURES.

1066

00:26:02,527 --> 00:26:05,330

>> AND I THINK PAOLO

1067

00:26:05,330 --> 00:26:06,131

MENTIONED EARLIER ABOUT

1068

00:26:06,131 --> 00:26:08,366

THE EARTH IS EVER CHANGING.

1069

00:26:08,366 --> 00:26:09,467

FOR ME, TO PICK OUT ONE

1070

00:26:09,467 --> 00:26:10,602

AFTER JUST THE FEW MONTHS

1071

00:26:10,602 --> 00:26:12,237

WE'VE BEEN HERE IS IMPOSSIBLE.

1072

00:26:12,237 --> 00:26:13,438

IT'S EVERY DAY THERE'S

1073

00:26:13,438 --> 00:26:15,106

ONE OR TWO THAT I GO,

1074

00:26:15,106 --> 00:26:16,808

"WOW, THAT WAS JUST SO AMAZING.

1075

00:26:16,808 --> 00:26:17,943

"I'M SO FORTUNATE TO BE ABLE

1076

00:26:17,943 --> 00:26:19,110

"TO HAVE SEEN THAT."

1077

00:26:19,110 --> 00:26:19,911

AND THAT'S A LOT OF THE STUFF

1078

00:26:19,911 --> 00:26:21,012

THAT WE'RE TRYING TO POST

1079

00:26:21,012 --> 00:26:21,880

AND SHARE WITH YOU GUYS,

1080

00:26:21,880 --> 00:26:23,682

BECAUSE EVERY DAY IS

1081

00:26:23,682 --> 00:26:25,016

FULL OF AMAZING PICTURES.

1082

00:26:25,016 --> 00:26:26,718

AND MY FOLDER OF AMAZING

1083

00:26:26,718 --> 00:26:27,619

PICTURES FROM SPACE

1084

00:26:27,619 --> 00:26:31,723

JUST KEEPS GROWING DAILY.

1085

00:26:33,591 --> 00:26:35,126

>> I'D SAY MY FAVORITE PHOTO

1086

00:26:35,126 --> 00:26:37,429

SO FAR IS ONE OF, FRANKLY,

1087

00:26:37,429 --> 00:26:40,265

ITALY AND THE ALPS THAT

1088

00:26:40,265 --> 00:26:41,599

WE HAPPENED-- I THINK KOMRADE

1089

00:26:41,599 --> 00:26:43,201  
DREW MY ATTENTION TO IT,

1090

00:26:43,201 --> 00:26:44,903  
GOT ME TO LOOK DOWN DURING

1091

00:26:44,903 --> 00:26:46,104  
THE SPACEWALK, AND I SNAPPED

1092

00:26:46,104 --> 00:26:48,106  
A COUPLE PICTURES.

1093

00:26:48,106 --> 00:26:48,807  
THE CAMERA DID A LOT OF

1094

00:26:48,807 --> 00:26:49,541  
GREAT WORK FOR ME, BECAUSE

1095

00:26:49,541 --> 00:26:50,275  
ALL I COULD REALLY DO

1096

00:26:50,275 --> 00:26:50,942  
IN THAT SITUATION WAS

1097

00:26:50,942 --> 00:26:52,077  
PRESS THE BUTTON.

1098

00:26:52,077 --> 00:26:53,044  
AND THE PICTURES TURNED OUT

1099

00:26:53,044 --> 00:26:56,414  
GREAT-- REALLY BRIGHTLY LIT

1100

00:26:56,414 --> 00:26:59,317  
JAPANESE MODULE OF THE SPACE

1101  
00:26:59,317 --> 00:27:00,819  
STATION IN THE FOREGROUND,

1102  
00:27:00,819 --> 00:27:02,654  
AND ITALY AND THE ALPS

1103  
00:27:02,654 --> 00:27:05,790  
IN THE BACKGROUND.

1104  
00:27:05,790 --> 00:27:06,391  
>> YEAH, AND IF I COULD

1105  
00:27:06,391 --> 00:27:07,459  
JUST ADD, PROBABLY

1106  
00:27:07,459 --> 00:27:09,394  
ONE OF MY FAVORITES WAS TAKEN

1107  
00:27:09,394 --> 00:27:10,929  
JUST A FEW MINUTES AGO.

1108  
00:27:10,929 --> 00:27:12,230  
AND KOMRADE AND I HAD

1109  
00:27:12,230 --> 00:27:14,165  
A CONFERENCE THAT WAS

1110  
00:27:14,165 --> 00:27:15,100  
SCHEDULED WITH SOME OF

1111  
00:27:15,100 --> 00:27:16,868  
OUR FLIGHT DIRECTORS LOOKING AT

1112  
00:27:16,868 --> 00:27:18,737  
THE UPCOMING SPACEWALK,

1113  
00:27:18,737 --> 00:27:20,672

AND ASKED OF ME, "WHERE ARE WE

1114

00:27:20,672 --> 00:27:21,473

"RIGHT NOW?"

1115

00:27:21,473 --> 00:27:22,273

HE'S LIKE, "I THINK

1116

00:27:22,273 --> 00:27:23,274

"THAT'S SOUTH AMERICA."

1117

00:27:23,274 --> 00:27:24,209

AND I SAID, "WELL,

1118

00:27:24,209 --> 00:27:24,876

"IS PUERTO RICO GOING TO BE

1119

00:27:24,876 --> 00:27:25,577

"COMING UP?"

1120

00:27:25,577 --> 00:27:26,411

AND HE'S LIKE, "WOW,

1121

00:27:26,411 --> 00:27:27,379

"THERE IT IS RIGHT THERE."

1122

00:27:27,379 --> 00:27:28,980

SO WE GRABBED CAMERAS

1123

00:27:28,980 --> 00:27:30,548

RIGHT AWAY, AND IT WAS JUST

1124

00:27:30,548 --> 00:27:33,985

A BEAUTIFUL DAY.

1125

00:27:33,985 --> 00:27:34,786

I KNOW PEOPLE ARE STILL

1126  
00:27:34,786 --> 00:27:35,987  
RECOVERING OVER IN PUERTO RICO,

1127  
00:27:35,987 --> 00:27:37,188  
SO THEY CAN SEE HOW BEAUTIFUL

1128  
00:27:37,188 --> 00:27:38,957  
THEIR ISLAND LOOKS FROM UP HERE.

1129  
00:27:38,957 --> 00:27:39,758  
BUT IT WAS PRETTY COOL

1130  
00:27:39,758 --> 00:27:41,326  
TO TAKE THAT TODAY.

1131  
00:27:41,326 --> 00:27:41,993  
>> I KNOW THE PEOPLE

1132  
00:27:41,993 --> 00:27:43,395  
IN PUERTO RICO WILL BE REALLY,

1133  
00:27:43,395 --> 00:27:45,430  
REALLY ANXIOUS TO SEE THAT.

1134  
00:27:45,430 --> 00:27:46,131  
ALL RIGHT, SO WE'VE GOT

1135  
00:27:46,131 --> 00:27:47,766  
A COUPLE QUESTIONS ABOUT

1136  
00:27:47,766 --> 00:27:48,833  
THE EXPOSURE TIMES

1137  
00:27:48,833 --> 00:27:49,734  
ON YOUR CAMERAS.

1138  
00:27:49,734 --> 00:27:50,368

CAN YOU GUYS TALK

1139

00:27:50,368 --> 00:27:52,504

A LITTLE BIT ABOUT THAT?

1140

00:27:52,504 --> 00:27:53,505

>> TYPICALLY FOR DAYTIME

1141

00:27:53,505 --> 00:27:55,106

EARTH OBS, WE'RE SHOOTING,

1142

00:27:55,106 --> 00:27:56,107

A LOT OF TIMES, SHUTTER

1143

00:27:56,107 --> 00:27:57,275

PRIORITY AND WE'RE SHOOTING

1144

00:27:57,275 --> 00:27:58,743

FOR ONE OVER THE FOCAL LENGTH.

1145

00:27:58,743 --> 00:28:00,078

SO IF YOU'VE GOT A 400MM LENS

1146

00:28:00,078 --> 00:28:01,246

LIKE THIS BIG MONSTER,

1147

00:28:01,246 --> 00:28:03,148

YOU'RE SHOOTING 1/400

1148

00:28:03,148 --> 00:28:06,551

AND LETTING THE CAMERA

1149

00:28:06,551 --> 00:28:08,586

TAKE CARE OF THE APERTURE.

1150

00:28:08,586 --> 00:28:09,387

NIGHTTIME IS

1151

00:28:09,387 --> 00:28:10,388

CERTAINLY DIFFERENT.

1152

00:28:10,388 --> 00:28:11,156

DEPENDS ON WHETHER OR NOT

1153

00:28:11,156 --> 00:28:13,558

WE'VE GOT MOON OR WE DON'T.

1154

00:28:13,558 --> 00:28:14,592

AT THAT POINT, WE'RE SETTING UP

1155

00:28:14,592 --> 00:28:16,227

THE CAMERAS ON ARMS

1156

00:28:16,227 --> 00:28:17,295

SO THAT WE'RE NOT JIGGLING

1157

00:28:17,295 --> 00:28:18,396

THEM, LIKE A TRIPOD

1158

00:28:18,396 --> 00:28:19,631

ON THE GROUND.

1159

00:28:19,631 --> 00:28:20,165

AND WE'RE SHOOTING

1160

00:28:20,165 --> 00:28:21,833

ANYWHERE FROM A SECOND,

1161

00:28:21,833 --> 00:28:23,568

TO TWO SECOND, UP TO EVEN--

1162

00:28:23,568 --> 00:28:24,436

PAOLO WAS SHOOTING THIS WEEK

1163

00:28:24,436 --> 00:28:26,337

A TENTH OF A SECOND BECAUSE

1164

00:28:26,337 --> 00:28:27,272

IT WAS SO BRIGHT WITH

1165

00:28:27,272 --> 00:28:28,239

THE MOON OVER THE GROUND.

1166

00:28:28,239 --> 00:28:29,174

SO YOU KIND OF ADJUST

1167

00:28:29,174 --> 00:28:31,242

FOR THE CONDITIONS TO BE ABLE

1168

00:28:31,242 --> 00:28:32,243

TO GET THE SHOTS

1169

00:28:32,243 --> 00:28:36,648

ON THE TIME OF DAY.

1170

00:28:36,648 --> 00:28:37,515

>> GREAT, THANKS.

1171

00:28:37,515 --> 00:28:38,183

ALL RIGHT, JESSICA IS

1172

00:28:38,183 --> 00:28:39,818

SAYING, "HI FROM CHICAGO.

1173

00:28:39,818 --> 00:28:40,752

"CAN YOU RECALL A TIME

1174

00:28:40,752 --> 00:28:42,120

"WHEN YOU SAW SOMETHING

1175

00:28:42,120 --> 00:28:43,054

"FROM UP THERE THAT WAS

1176

00:28:43,054 --> 00:28:44,289

"IMPOSSIBLE TO BE CAPTURED

1177

00:28:44,289 --> 00:28:46,124

"ON CAMERA, OR SOMETHING THAT

1178

00:28:46,124 --> 00:28:47,025

"JUST DOESN'T DO JUSTICE

1179

00:28:47,025 --> 00:28:47,792

"ON CAMERA THAT

1180

00:28:47,792 --> 00:28:51,763

"YOU WISH TO SHARE?"

1181

00:28:51,763 --> 00:28:52,797

>> IT'S REALLY INTERESTING,

1182

00:28:52,797 --> 00:28:54,599

BECAUSE YOU NEVER KNOW

1183

00:28:54,599 --> 00:28:55,800

WHAT YOU'RE GOING TO GET.

1184

00:28:55,800 --> 00:28:56,868

AND ACTUALLY, YOU NEVER KNOW

1185

00:28:56,868 --> 00:28:58,336

WHAT YOU'RE GOING TO SEE,

1186

00:28:58,336 --> 00:28:59,671

TO START WITH.

1187

00:28:59,671 --> 00:29:01,206

MORE OR LESS YOU CAN PREDICT,

1188

00:29:01,206 --> 00:29:02,340

BUT THE CONDITION CHANGES

1189

00:29:02,340 --> 00:29:04,509

SO DRASTICALLY THAT YOU CAN

1190

00:29:04,509 --> 00:29:07,112

WAIT FOR THE WHOLE DAY

1191

00:29:07,112 --> 00:29:08,379

FOR A PASS OVER ITALY,

1192

00:29:08,379 --> 00:29:09,914

FOR EXAMPLE, JUST TO DISCOVER

1193

00:29:09,914 --> 00:29:10,682

THAT IT'S COMPLETELY

1194

00:29:10,682 --> 00:29:11,549

COVERED BY CLOUDS.

1195

00:29:11,549 --> 00:29:12,250

YOU DON'T EVEN SEE

1196

00:29:12,250 --> 00:29:13,618

WHERE IT IS.

1197

00:29:13,618 --> 00:29:14,452

OR THE OPPOSITE.

1198

00:29:14,452 --> 00:29:15,353

OR YOU'RE DOING SOMETHING,

1199

00:29:15,353 --> 00:29:16,788

YOU'RE THERE DOING EXERCISE.

1200

00:29:16,788 --> 00:29:17,655

WE HAVE THE CUPOLA

1201  
00:29:17,655 --> 00:29:18,323  
RIGHT THERE WHERE

1202  
00:29:18,323 --> 00:29:19,324  
WE'RE DOING EXERCISE.

1203  
00:29:19,324 --> 00:29:20,291  
YOU'RE THERE DOING A SET

1204  
00:29:20,291 --> 00:29:22,694  
OF SOMETHING AND SUDDENLY,

1205  
00:29:22,694 --> 00:29:24,262  
AN ISLAND APPEARS

1206  
00:29:24,262 --> 00:29:25,530  
OUT OF THE BLUE AND IS

1207  
00:29:25,530 --> 00:29:30,101  
INCREDIBLE COLORS.

1208  
00:29:30,101 --> 00:29:31,069  
[ LAUGHTER ]

1209  
00:29:31,069 --> 00:29:32,003  
I JUST LOST THE QUESTION.

1210  
00:29:32,003 --> 00:29:33,104  
WHAT WAS THE QUESTION?

1211  
00:29:33,104 --> 00:29:34,472  
>> [ INDISTINCT ].

1212  
00:29:34,472 --> 00:29:35,607  
>> AH, YES.

1213  
00:29:35,607 --> 00:29:37,308

SO THERE ARE A LOT OF THINGS

1214

00:29:37,308 --> 00:29:39,677

THAT CANNOT BE-- I MEAN,

1215

00:29:39,677 --> 00:29:41,713

THE CAMERA CANNOT TRANSLATE,

1216

00:29:41,713 --> 00:29:43,982

AND-- BECAUSE IT'S VERY

1217

00:29:43,982 --> 00:29:45,917

DIFFICULT TO SEE THE LIGHT.

1218

00:29:45,917 --> 00:29:46,951

FOR EXAMPLE, I FIND IT

1219

00:29:46,951 --> 00:29:50,655

VERY DIFFICULT TO TAKE PICTURES

1220

00:29:50,655 --> 00:29:52,624

WHEN THE SUN GOES DOWN,

1221

00:29:52,624 --> 00:29:53,558

BECAUSE THERE IS

1222

00:29:53,558 --> 00:29:56,227

THIS HUGE BRIGHT SUN THERE

1223

00:29:56,227 --> 00:29:56,928

AND YOU'RE TRYING

1224

00:29:56,928 --> 00:29:57,896

TO CAPTURE SOMETHING ELSE

1225

00:29:57,896 --> 00:29:59,330

AND YOU CANNOT DO IT.

1226

00:29:59,330 --> 00:30:01,065

SO IN SPACE, THERE ARE

1227

00:30:01,065 --> 00:30:02,634

HUGE CONTRASTS BETWEEN

1228

00:30:02,634 --> 00:30:04,536

THE FULL DAY AND THE FULL NIGHT.

1229

00:30:04,536 --> 00:30:05,737

THERE IS NOTHING IN THE MIDDLE

1230

00:30:05,737 --> 00:30:07,105

THERE, AND IT'S VERY DIFFICULT

1231

00:30:07,105 --> 00:30:08,373

TO TRANSITION.

1232

00:30:08,373 --> 00:30:09,474

FOR EXAMPLE, WHEN WE DO

1233

00:30:09,474 --> 00:30:11,509

A NIGHTTIME TIME LAPSES

1234

00:30:11,509 --> 00:30:12,844

AND WE SET UP THE CAMERA

1235

00:30:12,844 --> 00:30:14,379

FOR NIGHT, AS SOON AS WE GET

1236

00:30:14,379 --> 00:30:15,813

THE SUN, JUST A LITTLE BIT

1237

00:30:15,813 --> 00:30:16,915

OF SUN OUT IT'S TOTALLY

1238

00:30:16,915 --> 00:30:17,949

WASHED OUT.

1239

00:30:17,949 --> 00:30:19,317

AND I WOULD LOVE, FOR EXAMPLE,

1240

00:30:19,317 --> 00:30:21,886

TO SHOW THIS TRANSITION

1241

00:30:21,886 --> 00:30:23,555

AS WE SEE IT WITH THE EYE

1242

00:30:23,555 --> 00:30:25,056

THAT ADJUSTS CONTINUOUSLY.

1243

00:30:25,056 --> 00:30:26,524

THIS TRANSITION FROM NIGHT

1244

00:30:26,524 --> 00:30:28,493

TO DAY, THIS IS SOMETHING

1245

00:30:28,493 --> 00:30:29,561

THAT I STILL HAVEN'T

1246

00:30:29,561 --> 00:30:30,962

FIGURED OUT A WAY TO DO IT.

1247

00:30:30,962 --> 00:30:33,064

MAYBE WE'LL THINK ABOUT IT

1248

00:30:33,064 --> 00:30:35,300

AND WE'LL WORK ON IT.

1249

00:30:35,300 --> 00:30:36,401

>> WELL, KOMRADE, THAT

1250

00:30:36,401 --> 00:30:38,703

KIND OF MAKES ME THINK OF--

1251  
00:30:38,703 --> 00:30:40,038  
I KNOW VERY SOON-- I THINK

1252  
00:30:40,038 --> 00:30:41,506  
ON OCTOBER 23rd YOU WANT TO

1253  
00:30:41,506 --> 00:30:43,241  
DO A SORT OF AROUND THE WORLD

1254  
00:30:43,241 --> 00:30:44,576  
IN 90 MINUTES AND THEN

1255  
00:30:44,576 --> 00:30:45,643  
KIND OF SHARE YOUR PERSPECTIVE

1256  
00:30:45,643 --> 00:30:47,145  
OF A GREAT PASS OVER

1257  
00:30:47,145 --> 00:30:49,581  
A LOT OF POPULATED CITIES AND

1258  
00:30:49,581 --> 00:30:51,849  
VARIOUS FEATURES OF THE EARTH.

1259  
00:30:51,849 --> 00:30:52,650  
CAN YOU TALK ABOUT

1260  
00:30:52,650 --> 00:30:53,952  
WHAT YOUR PLANS ARE FOR THAT,

1261  
00:30:53,952 --> 00:30:54,786  
WHAT YOU'RE GOING TO DO

1262  
00:30:54,786 --> 00:30:58,890  
OVER THOSE 90 MINUTES?

1263  
00:30:58,890 --> 00:31:00,992

>> WELL, IT'S NOT JUST ME.

1264

00:31:00,992 --> 00:31:01,993  
IT'S GOING TO END UP BEING

1265

00:31:01,993 --> 00:31:02,894  
A CREW PROJECT.

1266

00:31:02,894 --> 00:31:04,562  
AND THE THOUGHT WAS

1267

00:31:04,562 --> 00:31:07,031  
TO SHOW EVERYBODY ON THE GROUND

1268

00:31:07,031 --> 00:31:08,032  
WHAT IT'S LIKE, AND

1269

00:31:08,032 --> 00:31:09,567  
THE FEATURES THAT CAPTURE

1270

00:31:09,567 --> 00:31:10,835  
OUR ATTENTION DURING EACH

1271

00:31:10,835 --> 00:31:12,036  
MINUTE OF THOSE 90 MINUTES

1272

00:31:12,036 --> 00:31:13,338  
IN ONE REVOLUTION OF THE EARTH,

1273

00:31:13,338 --> 00:31:14,572  
WHETHER IT'S DAY OR NIGHT.

1274

00:31:14,572 --> 00:31:15,773  
AND IDEALLY PEOPLE ARE

1275

00:31:15,773 --> 00:31:17,175  
ENGAGED AND THEY CAN THEN

1276

00:31:17,175 --> 00:31:19,177

ADD TO THE PROJECT AND

1277

00:31:19,177 --> 00:31:20,111

THE CONVERSATION--

1278

00:31:20,111 --> 00:31:21,379

WHAT WAS GOING ON ON THE GROUND

1279

00:31:21,379 --> 00:31:22,780

AT THAT MOMENT THEMSELVES--

1280

00:31:22,780 --> 00:31:24,882

AND KIND OF CREATE THIS MOMENT

1281

00:31:24,882 --> 00:31:26,117

IN TIME WHERE WE CIRCLE

1282

00:31:26,117 --> 00:31:27,085

THE GLOBE, AND WHAT WAS

1283

00:31:27,085 --> 00:31:28,720

THE WORLD DOING AT THAT MOMENT?

1284

00:31:28,720 --> 00:31:29,621

AND SO WE'LL BE TRYING

1285

00:31:29,621 --> 00:31:30,421

TO TAKE THOSE PICTURES.

1286

00:31:30,421 --> 00:31:31,389

I THINK WE HAVEN'T QUITE

1287

00:31:31,389 --> 00:31:32,357

SETTLED ON A DATE YET,

1288

00:31:32,357 --> 00:31:33,925

BUT YES, IT'LL BE AFTER

1289

00:31:33,925 --> 00:31:35,660

WE FINISH OUR LAST EVAs,

1290

00:31:35,660 --> 00:31:37,629

AND SOMETHING THAT WE HOPE

1291

00:31:37,629 --> 00:31:39,664

IS A GLOBAL PROJECT THAT'LL

1292

00:31:39,664 --> 00:31:41,199

INCLUDE MOST OF THE WORLD'S

1293

00:31:41,199 --> 00:31:42,634

POPULATION THAT WE CAN GET

1294

00:31:42,634 --> 00:31:45,236

IN A SINGLE PASS, AND REALLY

1295

00:31:45,236 --> 00:31:47,272

SHOW OFF, SHOWCASE

1296

00:31:47,272 --> 00:31:50,074

ONE REVOLUTION OF OUR PLANET.

1297

00:31:50,074 --> 00:31:50,875

>> CAN'T WAIT TO SEE

1298

00:31:50,875 --> 00:31:51,909

WHAT YOU HAVE PLANNED FOR THAT.

1299

00:31:51,909 --> 00:31:52,610

WELL, GENTLEMEN, THANK YOU

1300

00:31:52,610 --> 00:31:54,379

SO MUCH FOR TAKING THE TIME

1301  
00:31:54,379 --> 00:31:55,680  
TO COME ON THE PODCAST TODAY

1302  
00:31:55,680 --> 00:31:56,581  
AND SHARE YOUR PERSPECTIVE

1303  
00:31:56,581 --> 00:31:57,382  
OF EARTH.

1304  
00:31:57,382 --> 00:31:58,349  
IT'S JUST SO UNIQUE-- LITERALLY

1305  
00:31:58,349 --> 00:31:59,450  
NO ONE ELSE ON THIS PLANET

1306  
00:31:59,450 --> 00:32:00,485  
HAS THAT PERSPECTIVE.

1307  
00:32:00,485 --> 00:32:01,352  
SO THANK YOU SO MUCH FOR

1308  
00:32:01,352 --> 00:32:02,720  
TAKING THE TIME TO DO THAT.

1309  
00:32:02,720 --> 00:32:04,989  
AND I KNOW THIS IS THE END

1310  
00:32:04,989 --> 00:32:06,457  
OF THE DAY FOR YOU, TOO,

1311  
00:32:06,457 --> 00:32:08,226  
SO AGAIN, APPRECIATE

1312  
00:32:08,226 --> 00:32:09,460  
ALL FOUR OF YOU PARTICIPATING

1313  
00:32:09,460 --> 00:32:10,328

IN THIS.

1314

00:32:10,328 --> 00:32:11,162  
SO JUST WANT TO WISH YOU

1315

00:32:11,162 --> 00:32:12,230  
THE BEST OF LUCK ON THE REST

1316

00:32:12,230 --> 00:32:13,998  
OF YOUR MISSION, AND GODSPEED.

1317

00:32:13,998 --> 00:32:14,666  
CAN'T WAIT TIL

1318

00:32:14,666 --> 00:32:18,503  
YOU GUYS GET HOME.

1319

00:32:18,503 --> 00:32:19,537  
>> THANK YOU VERY MUCH, GARY.

1320

00:32:19,537 --> 00:32:20,238  
WE'LL LOOK FORWARD TO

1321

00:32:20,238 --> 00:32:20,938  
THE NEXT TIME WE GET TO TALK

1322

00:32:20,938 --> 00:32:24,275  
TO YOU, AND READY-- BREAK.

1323

00:32:26,110 --> 00:32:26,878  
>> STATION, THIS IS

1324

00:32:26,878 --> 00:32:27,745  
HOUSTON ACR.

1325

00:32:27,745 --> 00:32:31,416  
THAT CONCLUDES THE EVENT.

1326

00:32:31,416 --> 00:32:32,150

>> THANK YOU TO ALL

1327

00:32:32,150 --> 00:32:34,352

THE PARTICIPANTS FROM JSC PAO.

1328

00:32:34,352 --> 00:32:35,353

STATION, WE ARE NOW

1329

00:32:35,353 --> 00:32:36,788

RESUMING OPERATIONAL

1330

00:32:36,788 --> 00:32:39,157

AUDIO COMMUNICATION.

1331

00:32:39,157 --> 00:32:40,625

>> AW, FANTASTIC.

1332

00:32:40,625 --> 00:32:41,559

HOW 'BOUT THAT, MEGAN?

1333

00:32:41,559 --> 00:32:42,460

>> THAT WAS AMAZING!

1334

00:32:42,460 --> 00:32:43,461

>> FOUR ASTRONAUTS.

1335

00:32:43,461 --> 00:32:44,562

WE GOT TO SEE THEIR

1336

00:32:44,562 --> 00:32:46,497

PERSPECTIVE OF THE PLANET.

1337

00:32:46,497 --> 00:32:47,699

AND I KNOW WE WERE THROWN

1338

00:32:47,699 --> 00:32:48,700

SOME IMAGES-- THOSE WERE

1339

00:32:48,700 --> 00:32:50,101

ACTUAL IMAGES THAT THEY TOOK

1340

00:32:50,101 --> 00:32:52,270

WHILE THEY WERE ACTUALLY--

1341

00:32:52,270 --> 00:32:53,071

SOME OF THE STILL

1342

00:32:53,071 --> 00:32:54,706

PHOTOGRAPHY THAT THE CAMERA

1343

00:32:54,706 --> 00:32:55,707

THEY ACTUALLY SHOWED WHILE

1344

00:32:55,707 --> 00:32:56,774

THEY WERE UP THERE, BUT THEN

1345

00:32:56,774 --> 00:32:57,842

SOME OF THOSE TIME LAPSES

1346

00:32:57,842 --> 00:32:58,743

THAT PAOLO WAS TALKING

1347

00:32:58,743 --> 00:32:59,644

ABOUT, TOO.

1348

00:32:59,644 --> 00:33:00,311

ABSOLUTELY JUST SUCH

1349

00:33:00,311 --> 00:33:01,312

A UNIQUE PERSPECTIVE.

1350

00:33:01,312 --> 00:33:02,146

>> YEAH, IT'S SO COOL

1351  
00:33:02,146 --> 00:33:04,082  
TO TALK TO THEM AND TO HEAR

1352  
00:33:04,082 --> 00:33:04,482  
A LITTLE BIT ABOUT

1353  
00:33:04,482 --> 00:33:05,583  
THEIR EXPERIENCE.

1354  
00:33:05,583 --> 00:33:07,118  
AND OF COURSE, YOU CAN SEE

1355  
00:33:07,118 --> 00:33:08,086  
ALL THOSE PICTURES ON

1356  
00:33:08,086 --> 00:33:09,520  
THEIR SOCIAL MEDIA SITES.

1357  
00:33:09,520 --> 00:33:10,655  
AND JUST AMAZING PICTURES

1358  
00:33:10,655 --> 00:33:11,856  
THEY'VE TAKEN.

1359  
00:33:11,856 --> 00:33:12,857  
>> YEAH, LET'S GO THROUGH THEM.

1360  
00:33:12,857 --> 00:33:13,558  
SO WHO CAN WE FOLLOW

1361  
00:33:13,558 --> 00:33:14,625  
ON THE STATION?

1362  
00:33:14,625 --> 00:33:15,393  
>> ALL RIGHT, SO ALL FOUR

1363  
00:33:15,393 --> 00:33:16,527

OF THOSE GUYS WE JUST TALKED TO

1364

00:33:16,527 --> 00:33:17,695  
ARE ALL ON TWITTER,

1365

00:33:17,695 --> 00:33:18,463  
SO YOU CAN FOLLOW THEM ALL

1366

00:33:18,463 --> 00:33:19,130  
ON TWITTER.

1367

00:33:19,130 --> 00:33:21,099  
KOMRADE IS @ASTROKOMRADE.

1368

00:33:21,099 --> 00:33:23,801  
JOE IS @ASTROACABA.

1369

00:33:23,801 --> 00:33:26,471  
SABOT IS @ASTRO\_SABOT.

1370

00:33:26,471 --> 00:33:29,374  
PAOLO IS @ASTRO\_PAOLO.

1371

00:33:29,374 --> 00:33:30,408  
AND YOU CAN FOLLOW

1372

00:33:30,408 --> 00:33:31,309  
ALL THE ASTRONAUTS AT

1373

00:33:31,309 --> 00:33:33,211  
@NASA\_ASTRONAUTS.

1374

00:33:33,211 --> 00:33:36,781  
AND ALSO, KOMRADE AND PAOLO

1375

00:33:36,781 --> 00:33:37,815  
ARE ALSO ON INSTAGRAM.

1376

00:33:37,815 --> 00:33:38,649  
SO IF YOU LIKE INSTAGRAM,

1377

00:33:38,649 --> 00:33:39,484  
YOU CAN LOOK THEM UP

1378

00:33:39,484 --> 00:33:40,385  
ON INSTAGRAM AND SEE

1379

00:33:40,385 --> 00:33:41,486  
ALL THEIR PICTURES.

1380

00:33:41,486 --> 00:33:42,253  
>> THAT'S RIGHT, YEAH.

1381

00:33:42,253 --> 00:33:44,455  
AND WE TRY TO KIND OF

1382

00:33:44,455 --> 00:33:45,356  
CONSOLIDATE THAT INTO

1383

00:33:45,356 --> 00:33:46,657  
THAT ASTRONAUTS ACCOUNT, TOO,

1384

00:33:46,657 --> 00:33:47,525  
SO YOU CAN JUST SEE

1385

00:33:47,525 --> 00:33:48,459  
EVERYONE'S PICTURES.

1386

00:33:48,459 --> 00:33:49,160  
AND THEY ARE SOME

1387

00:33:49,160 --> 00:33:49,927  
AMAZING PHOTOS.

1388

00:33:49,927 --> 00:33:51,028

AGAIN, THESE PHOTOS THAT

1389

00:33:51,028 --> 00:33:51,829

WE'RE SHARING WITH YOU,

1390

00:33:51,829 --> 00:33:52,964

A LOT OF THEM WERE ACTUALLY

1391

00:33:52,964 --> 00:33:53,998

SHARED ON THEIR TWITTER

1392

00:33:53,998 --> 00:33:54,899

ACCOUNT, SO YOU CAN FOLLOW

1393

00:33:54,899 --> 00:33:56,200

ALONG ON THAT JOURNEY.

1394

00:33:56,200 --> 00:33:57,368

AND I KNOW THAT EACH OF THEM

1395

00:33:57,368 --> 00:33:58,202

HAVE A COUPLE MONTHS LEFT,

1396

00:33:58,202 --> 00:34:00,104

SO THERE'S PLENTY OF IMAGES

1397

00:34:00,104 --> 00:34:01,038

TO SEE OVER THESE NEXT

1398

00:34:01,038 --> 00:34:02,006

COUPLE OF MONTHS.

1399

00:34:02,006 --> 00:34:02,907

IF YOU HAVE A QUESTION ABOUT

1400

00:34:02,907 --> 00:34:03,775

ASTRONAUT PHOTOGRAPHY

1401  
00:34:03,775 --> 00:34:05,009  
OR ANYTHING NASA RELATED,

1402  
00:34:05,009 --> 00:34:05,810  
JUST GO ON YOUR FAVORITE

1403  
00:34:05,810 --> 00:34:06,944  
SOCIAL MEDIA NETWORK AND USE

1404  
00:34:06,944 --> 00:34:08,646  
THE HASHTAG #ASKNASA.

1405  
00:34:08,646 --> 00:34:09,447  
IF YOU WANT TO ASK US

1406  
00:34:09,447 --> 00:34:10,481  
SPECIFICALLY A QUESTION ON

1407  
00:34:10,481 --> 00:34:11,416  
"HOUSTON, WE HAVE A PODCAST"

1408  
00:34:11,416 --> 00:34:12,383  
JUST MENTION US

1409  
00:34:12,383 --> 00:34:14,018  
IN THAT #ASKNASA QUESTION.

1410  
00:34:14,018 --> 00:34:15,186  
#HWHAP I THINK IS THE ONE

1411  
00:34:15,186 --> 00:34:16,521  
WE LIKE TO USE FOR HWHAP

1412  
00:34:16,521 --> 00:34:17,321  
JUST SO YOU CAN LIMIT

1413  
00:34:17,321 --> 00:34:18,122

ALL THOSE CHARACTERS,

1414

00:34:18,122 --> 00:34:19,390  
ESPECIALLY FOR TWITTER.

1415

00:34:19,390 --> 00:34:20,224  
BUT IF YOU'RE NOT FOLLOWING

1416

00:34:20,224 --> 00:34:21,626  
"HOUSTON,WE HAVE A PODCAST"

1417

00:34:21,626 --> 00:34:23,161  
ALREADY, SHAMELESS PLUG.

1418

00:34:23,161 --> 00:34:24,495  
I'D SAY GO AND SUBSCRIBE

1419

00:34:24,495 --> 00:34:26,397  
ON WHATEVER PODCAST AVENUE

1420

00:34:26,397 --> 00:34:27,331  
YOU LISTEN TO.

1421

00:34:27,331 --> 00:34:28,466  
I KNOW WE'RE ON iTUNES,

1422

00:34:28,466 --> 00:34:30,301  
SOUNDCLOUD, AND NASA.GOV.

1423

00:34:30,301 --> 00:34:31,302  
WE JUST RECENTLY GOT ON

1424

00:34:31,302 --> 00:34:34,038  
GOOGLE PLAY, SO WHATEVER

1425

00:34:34,038 --> 00:34:35,072  
MEDIUM YOU LIKE TO LISTEN

1426

00:34:35,072 --> 00:34:36,674  
TO YOUR PODCASTS AT.

1427

00:34:36,674 --> 00:34:37,942  
SO I THINK THAT'LL DO IT

1428

00:34:37,942 --> 00:34:38,843  
FOR US HERE.

1429

00:34:38,843 --> 00:34:39,544  
AGAIN, IF YOU HAVE

1430

00:34:39,544 --> 00:34:40,244  
ANY QUESTIONS, USE

1431

00:34:40,244 --> 00:34:42,013  
THE HASHTAG #NASA, AND BE SURE

1432

00:34:42,013 --> 00:34:43,247  
TO SUBSCRIBE TO "HOUSTON,

1433

00:34:43,247 --> 00:34:44,182  
"WE HAVE A PODCAST."

1434

00:34:44,182 --> 00:34:45,249  
AND WE'LL SEE YOU NEXT TIME,

1435

00:34:45,249 --> 00:34:46,050  
HOPEFULLY THE NEXT TIME

1436

00:34:46,050 --> 00:34:46,751  
WE'RE ON CAMERA

1437

00:34:46,751 --> 00:34:48,085  
TALKING TO SPACE.

1438

00:34:48,085 --> 00:34:48,753

>> YEAH.

1439

00:34:48,753 --> 00:34:49,454

>> I HOPE SO.

1440

00:34:49,454 --> 00:34:50,054

SO SUBSCRIBE TO "HOUSTON,

1441

00:34:50,054 --> 00:34:50,688

"WE HAVE A PODCAST."