



FOLLOW ON TWITTER

[@Cmdr_Hadfield](https://twitter.com/CommanderHadfield)

1

00:00:05,030 --> 00:00:02,950

a look here a live view from the

2

00:00:07,030 --> 00:00:05,040

international space station the complex

3

00:00:08,950 --> 00:00:07,040

uh continuing to perform well the

4

00:00:12,950 --> 00:00:08,960

vehicle is traveling at an altitude of

5

00:00:14,950 --> 00:00:12,960

418 kilometers or 226 nautical miles

6

00:00:16,550 --> 00:00:14,960

over the earth at this vantage point you

7

00:00:18,470 --> 00:00:16,560

can see it's a spectacular view of the

8

00:00:20,230 --> 00:00:18,480

earth and this is actually an

9

00:00:22,470 --> 00:00:20,240

opportunity for many researchers around

10

00:00:24,230 --> 00:00:22,480

the world who use the imagery and still

11

00:00:25,589 --> 00:00:24,240

photos that are captured by

12

00:00:27,189 --> 00:00:25,599

the astronauts on board for their

13

00:00:28,550 --> 00:00:27,199

research purposes

14

00:00:30,070 --> 00:00:28,560

as part of that here at the johnson

15

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

space center we have a team of

16

00:00:34,150 --> 00:00:32,239

researchers who help to

17

00:00:36,069 --> 00:00:34,160

catalog and keep track of all those

18

00:00:38,549 --> 00:00:36,079

images as well as identify valuable

19

00:00:40,950 --> 00:00:38,559

photo opportunities for the crew and one

20

00:00:43,350 --> 00:00:40,960

of those team members is melissa dawson

21

00:00:44,709 --> 00:00:43,360

again joining us from the jsc earth

22

00:00:47,110 --> 00:00:44,719

observation team thanks for joining us

23

00:00:49,910 --> 00:00:47,120

melissa thanks for having me

24

00:00:52,709 --> 00:00:49,920

so it's april which is um highlighted in

25

00:00:53,750 --> 00:00:52,719

a lot by earth day which is april 22nd

26

00:00:56,150 --> 00:00:53,760

and

27

00:00:58,630 --> 00:00:56,160

a lot of people credit some of the very

28

00:01:00,790 --> 00:00:58,640

first images of earth with helping to

29

00:01:02,630 --> 00:01:00,800

trigger that appreciation for our planet

30

00:01:04,310 --> 00:01:02,640

can you tell us a little bit about that

31

00:01:05,990 --> 00:01:04,320

uh yeah we in earth ops have been

32

00:01:08,630 --> 00:01:06,000

looking at astronaut photography for

33

00:01:10,550 --> 00:01:08,640

decades now and we can learn many things

34

00:01:13,190 --> 00:01:10,560

just from looking at the earth changes

35

00:01:15,590 --> 00:01:13,200

over those years we study things from

36

00:01:17,670 --> 00:01:15,600

changes in the lake bed to coral reefs

37

00:01:20,789 --> 00:01:17,680

glaciers over time and we can really

38

00:01:22,469 --> 00:01:20,799

learn a lot from the cruise photography

39

00:01:24,070 --> 00:01:22,479

so it's perfect that your team has

40

00:01:25,429 --> 00:01:24,080

actually launched a website for the

41

00:01:26,789 --> 00:01:25,439

month of april

42

00:01:29,190 --> 00:01:26,799

to highlight some of the crew earth

43

00:01:30,469 --> 00:01:29,200

observation photos and its connection to

44

00:01:32,710 --> 00:01:30,479

research on the ground can you tell us a

45

00:01:35,030 --> 00:01:32,720

little bit about this new website sure

46

00:01:37,429 --> 00:01:35,040

starting last year we created special

47

00:01:39,109 --> 00:01:37,439

features on our website for earth day

48

00:01:42,710 --> 00:01:39,119

and this year we're featuring an earth

49

00:01:45,190 --> 00:01:42,720

month webpage that we update weekly

50

00:01:46,870 --> 00:01:45,200

on the website users can read about what

51
00:01:48,230 --> 00:01:46,880
ceo has been up to

52
00:01:49,670 --> 00:01:48,240
new subsets

53
00:01:51,670 --> 00:01:49,680
for our main gateway astronaut

54
00:01:54,710 --> 00:01:51,680
photography website and some of our

55
00:01:56,789 --> 00:01:54,720
favorite astronaut images over time

56
00:01:58,709 --> 00:01:56,799
a few things we have now are

57
00:02:00,310 --> 00:01:58,719
our favorite astronaut tweeted image of

58
00:02:02,789 --> 00:02:00,320
the week

59
00:02:04,630 --> 00:02:02,799
i know that commander hadfield and tom

60
00:02:06,709 --> 00:02:04,640
mershberg have

61
00:02:08,710 --> 00:02:06,719
tweeted quite a few images so we pick

62
00:02:10,389 --> 00:02:08,720
from those imagery images from their

63
00:02:12,949 --> 00:02:10,399

tweeted accounts and then

64

00:02:14,949 --> 00:02:12,959

a favorite astronaut image of the week

65

00:02:16,390 --> 00:02:14,959

that they have taken just that week

66

00:02:17,030 --> 00:02:16,400

alone

67

00:02:18,949 --> 00:02:17,040

and

68

00:02:21,190 --> 00:02:18,959

favorite earth image

69

00:02:23,190 --> 00:02:21,200

that astronauts have taken

70

00:02:25,430 --> 00:02:23,200

of dynamic events

71

00:02:27,990 --> 00:02:25,440

in history

72

00:02:30,229 --> 00:02:28,000

yeah i'm curious um definitely commander

73

00:02:31,910 --> 00:02:30,239

chris hadfield's twitter feed and tom

74

00:02:34,070 --> 00:02:31,920

marshburn they've just been really

75

00:02:36,309 --> 00:02:34,080

immensely popular have you guys seen a

76
00:02:38,150 --> 00:02:36,319
spike and has social media impacted the

77
00:02:41,190 --> 00:02:38,160
the use of these images and getting the

78
00:02:44,309 --> 00:02:41,200
public engaged oh definitely um

79
00:02:46,309 --> 00:02:44,319
we we love looking at chris's uh tweeted

80
00:02:48,150 --> 00:02:46,319
images because he does tweet quite a few

81
00:02:49,350 --> 00:02:48,160
images every day and so we have a lot to

82
00:02:50,630 --> 00:02:49,360
choose from

83
00:02:52,869 --> 00:02:50,640
and so

84
00:02:55,430 --> 00:02:52,879
you know they've been very active

85
00:02:57,270 --> 00:02:55,440
up there not just with

86
00:02:59,030 --> 00:02:57,280
our target requests when we send them up

87
00:03:00,550 --> 00:02:59,040
every day but on their own they have a

88
00:03:02,710 --> 00:03:00,560

lot of really great images that come

89

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

down and so we have a lot to choose from

90

00:03:05,830 --> 00:03:04,640

and social media has definitely played a

91

00:03:06,869 --> 00:03:05,840

huge part

92

00:03:09,509 --> 00:03:06,879

in

93

00:03:11,430 --> 00:03:09,519

astronaut photography and with ceo

94

00:03:13,589 --> 00:03:11,440

and just particularly with twitter how

95

00:03:15,509 --> 00:03:13,599

people can

96

00:03:17,350 --> 00:03:15,519

tweet different images and retweet

97

00:03:22,070 --> 00:03:17,360

things and it's really we've seen a

98

00:03:25,350 --> 00:03:23,830

and i think a lot of people don't know

99

00:03:27,350 --> 00:03:25,360

that they can actually access the

100

00:03:29,030 --> 00:03:27,360

repository of all those many thousands

101
00:03:30,229 --> 00:03:29,040
of photos and they can they can search

102
00:03:32,149 --> 00:03:30,239
and even get photos of their own

103
00:03:35,190 --> 00:03:32,159
hometown or maybe where they were born

104
00:03:37,910 --> 00:03:35,200
and see those images from space

105
00:03:39,430 --> 00:03:37,920
yes we have a very large database like

106
00:03:41,350 --> 00:03:39,440
you said with thousands and thousands of

107
00:03:43,030 --> 00:03:41,360
images that the crew has taken from

108
00:03:43,830 --> 00:03:43,040
space over the years

109
00:03:47,750 --> 00:03:43,840
we

110
00:03:50,229 --> 00:03:47,760
people can do technical searches for a

111
00:03:52,390 --> 00:03:50,239
hometown or

112
00:03:54,470 --> 00:03:52,400
different features on the earth or we

113
00:03:57,509 --> 00:03:54,480

even have more photographs of things

114

00:03:59,030 --> 00:03:57,519

that have not yet been catalogued and

115

00:04:01,429 --> 00:03:59,040

that's kind of actually a little segue

116

00:04:04,070 --> 00:04:01,439

into we what we've created called the

117

00:04:06,630 --> 00:04:04,080

image detective website

118

00:04:09,509 --> 00:04:06,640

where the user can go through our very

119

00:04:11,750 --> 00:04:09,519

large database and start to

120

00:04:13,990 --> 00:04:11,760

catalog or geolocate things themselves

121

00:04:16,469 --> 00:04:14,000

and so we can kind of add some more

122

00:04:19,110 --> 00:04:16,479

value to these images that have not yet

123

00:04:20,710 --> 00:04:19,120

have any geolocation or features

124

00:04:22,550 --> 00:04:20,720

identified for them

125

00:04:23,670 --> 00:04:22,560

yeah walk us through that new that new

126
00:04:25,670 --> 00:04:23,680
feature this is something that the

127
00:04:27,030 --> 00:04:25,680
public can sign up for it's really easy

128
00:04:28,310 --> 00:04:27,040
but can you step us through how that

129
00:04:29,590 --> 00:04:28,320
works for for folks who might be

130
00:04:32,950 --> 00:04:29,600
interested in participating in this

131
00:04:34,790 --> 00:04:32,960
image detective feature absolutely um

132
00:04:36,390 --> 00:04:34,800
before you can start actually becoming

133
00:04:39,030 --> 00:04:36,400
an image detective you have to earn your

134
00:04:40,870 --> 00:04:39,040
badge and so you go on and you take a

135
00:04:42,230 --> 00:04:40,880
you go through a small tutorial and you

136
00:04:43,670 --> 00:04:42,240
can

137
00:04:45,830 --> 00:04:43,680
earn your badge by placing or

138
00:04:47,189 --> 00:04:45,840

geolocating an astronaut photograph

139

00:04:48,230 --> 00:04:47,199

against a map

140

00:04:50,150 --> 00:04:48,240

and

141

00:04:52,870 --> 00:04:50,160

once you do that you find the the image

142

00:04:54,469 --> 00:04:52,880

location you can add cloud cover

143

00:04:57,110 --> 00:04:54,479

percentage and if you would like you can

144

00:04:58,629 --> 00:04:57,120

add features and submit that image for

145

00:05:00,150 --> 00:04:58,639

approval and once you

146

00:05:01,909 --> 00:05:00,160

have that image approved and make your

147

00:05:03,110 --> 00:05:01,919

credentials which is your username and

148

00:05:06,469 --> 00:05:03,120

your password

149

00:05:08,390 --> 00:05:06,479

you will get a badge and you can start

150

00:05:10,150 --> 00:05:08,400

to locate

151
00:05:12,070 --> 00:05:10,160
well i don't even know how many we have

152
00:05:13,270 --> 00:05:12,080
online right now probably several

153
00:05:15,510 --> 00:05:13,280
hundred at least

154
00:05:17,749 --> 00:05:15,520
so we need all those located so image

155
00:05:21,029 --> 00:05:17,759
detectives welcome

156
00:05:23,510 --> 00:05:21,039
right there's so so many photos now and

157
00:05:25,990 --> 00:05:23,520
um and and we should know as popular as

158
00:05:27,909 --> 00:05:26,000
it is to see these photos

159
00:05:29,430 --> 00:05:27,919
from space especially of cities and

160
00:05:30,870 --> 00:05:29,440
locations that mean something to us

161
00:05:32,790 --> 00:05:30,880
they're really more than pretty pictures

162
00:05:34,870 --> 00:05:32,800
they are used by researchers around the

163
00:05:36,550 --> 00:05:34,880

world for lots of different

164

00:05:38,150 --> 00:05:36,560

analysis and studies and things that

165

00:05:39,670 --> 00:05:38,160

help us can you talk a little bit about

166

00:05:41,189 --> 00:05:39,680

that how many do you have any sense of

167

00:05:42,469 --> 00:05:41,199

the scope of how many researchers use

168

00:05:44,390 --> 00:05:42,479

these images

169

00:05:46,230 --> 00:05:44,400

at the moment we have a little over 30

170

00:05:48,469 --> 00:05:46,240

collaborators from about 20 different

171

00:05:50,550 --> 00:05:48,479

institutions all over the world

172

00:05:52,469 --> 00:05:50,560

they can make a particular request for a

173

00:05:54,950 --> 00:05:52,479

science site somewhere on earth

174

00:05:56,550 --> 00:05:54,960

and on a daily basis we will analyze the

175

00:05:59,430 --> 00:05:56,560

crew's orbit tracks to see if they'll be

176
00:06:00,309 --> 00:05:59,440
flying over any of our over 300 science

177
00:06:03,749 --> 00:06:00,319
sites

178
00:06:05,270 --> 00:06:03,759
and if they are flying over it and the

179
00:06:07,670 --> 00:06:05,280
the weather is permitting we'll have

180
00:06:10,629 --> 00:06:07,680
them take imagery of that site for us

181
00:06:11,909 --> 00:06:10,639
and we have a great deal

182
00:06:13,350 --> 00:06:11,919
of imagery throughout the years that

183
00:06:14,790 --> 00:06:13,360
we've been able to forward onto our

184
00:06:16,550 --> 00:06:14,800
collaborators and they've done great

185
00:06:19,110 --> 00:06:16,560
research projects with these

186
00:06:22,150 --> 00:06:19,120
images and it's not just

187
00:06:24,390 --> 00:06:22,160
you know phds that do this it's also

188
00:06:25,670 --> 00:06:24,400

classrooms so it really varies on who

189

00:06:27,189 --> 00:06:25,680

can use this imagery and what they can

190

00:06:28,790 --> 00:06:27,199

do with it

191

00:06:30,629 --> 00:06:28,800

well thanks so much for joining us

192

00:06:32,230 --> 00:06:30,639

melissa we definitely want to encourage

193

00:06:35,350 --> 00:06:32,240

people to visit that website it's a

194

00:06:37,029 --> 00:06:35,360

really long url but i do want to

195

00:06:38,990 --> 00:06:37,039

encourage folks to go to our main nasa

196

00:06:41,830 --> 00:06:39,000

webpage at

197

00:06:44,629 --> 00:06:41,840

www.nasa.gov and we do have a special

198

00:06:46,469 --> 00:06:44,639

earth month website and link that's got

199

00:06:48,390 --> 00:06:46,479

all sorts of earth day relevant

200

00:06:50,469 --> 00:06:48,400

applications and features

201
00:06:51,990 --> 00:06:50,479
from nasa of research that's being done

202
00:06:54,309 --> 00:06:52,000
so that's probably the easiest way to

203
00:06:56,390 --> 00:06:54,319
access it and like you mentioned the

204
00:06:58,790 --> 00:06:56,400
image detective feature program which is

205
00:07:00,469 --> 00:06:58,800
maybe easiest found by just

206
00:07:02,790 --> 00:07:00,479
doing an internet search for image

207
00:07:04,309 --> 00:07:02,800
detective nasa and that will bring you

208
00:07:06,070 --> 00:07:04,319
to that site as well so lots of

209
00:07:07,430 --> 00:07:06,080
different ways for the public to get

210
00:07:09,749 --> 00:07:07,440
more involved and see some of these

211
00:07:11,909 --> 00:07:09,759
images and be able to enjoy some of the

212
00:07:13,510 --> 00:07:11,919
valuable photography that's captured