
USGS

1
00:00:09,560 --> 00:00:07,249
good afternoon everyone this is the post

2
00:00:11,299 --> 00:00:09,570
launch news conference for the Landsat

3
00:00:14,990 --> 00:00:11,309
data continuity mission launched this

4
00:00:17,660 --> 00:00:15,000
morning on an atlas 5 rocket and here to

5
00:00:22,160 --> 00:00:17,670
talk about the success of this launch

6
00:00:25,189 --> 00:00:22,170
end the spacecraft on the way to its low

7
00:00:28,429 --> 00:00:25,199
Earth orbit destination our kin schweer

8
00:00:31,460 --> 00:00:28,439
the ldcm project manager from NASA's

9
00:00:33,799 --> 00:00:31,470
Goddard Space Flight Center Michael

10
00:00:36,229 --> 00:00:33,809
Luther the deputy associate

11
00:00:37,970 --> 00:00:36,239
administrator for programs for NASA

12
00:00:42,170 --> 00:00:37,980
science for the NASA science Mission

13
00:00:44,889 --> 00:00:42,180

Directorate at NASA headquarters Michael

14
00:00:49,940 --> 00:00:44,899
freilich the director of NASA's Earth

15
00:00:51,650 --> 00:00:49,950
Science Division and castle the

16
00:00:54,290 --> 00:00:51,660
assistant secretary for water and

17
00:00:59,330 --> 00:00:54,300
science for the US Department of the

18
00:01:02,810 --> 00:00:59,340
Interior and Marcia McNutt the director

19
00:01:04,880 --> 00:01:02,820
for the US Geological Survey and we'll

20
00:01:07,700 --> 00:01:04,890
begin first with the ldcm project

21
00:01:12,859 --> 00:01:07,710
manager and Ken schwere Ken thank you

22
00:01:16,070 --> 00:01:12,869
George oh what a glorious day can't tell

23
00:01:17,990 --> 00:01:16,080
I'm happy and proud huh just a few

24
00:01:19,640 --> 00:01:18,000
minutes ago I got done speaking with my

25
00:01:23,240 --> 00:01:19,650
mission ops team back in Greenbelt

26
00:01:24,740 --> 00:01:23,250
Maryland the satellite is doing great we

27
00:01:27,289 --> 00:01:24,750
separated from the launch vehicle like

28
00:01:29,330 --> 00:01:27,299
79 minutes after liftoff a few minutes

29
00:01:31,340 --> 00:01:29,340
after that we already had ground contact

30
00:01:32,690 --> 00:01:31,350
with the satellite and a few minutes

31
00:01:34,999 --> 00:01:32,700
after that our solar array already

32
00:01:36,469 --> 00:01:35,009
deployed we r power positive and once

33
00:01:38,149 --> 00:01:36,479
your power positive with the array out

34
00:01:40,370 --> 00:01:38,159
you have a lot of options there anything

35
00:01:41,690 --> 00:01:40,380
that could come up so it's in the best

36
00:01:43,580 --> 00:01:41,700
hands right now it's in my mission

37
00:01:45,710 --> 00:01:43,590
operations teams they're trained for a

38
00:01:48,980 --> 00:01:45,720

long time and they're doing a great job

39
00:01:52,819 --> 00:01:48,990
and I'm so proud of them on behalf of

40
00:01:55,850 --> 00:01:52,829
NASA the department interior and USGS I

41
00:01:59,780 --> 00:01:55,860
want to thank the KSC launch services

42
00:02:01,630 --> 00:01:59,790
program in ula they have once again put

43
00:02:05,209 --> 00:02:01,640
us exactly where we want to be on a

44
00:02:07,819 --> 00:02:05,219
smooth ride a beautiful launch on a

45
00:02:11,420 --> 00:02:07,829
clear day they don't make the weather

46
00:02:13,460 --> 00:02:11,430
but it was a clear day I spoke with a

47
00:02:15,950 --> 00:02:13,470
lot of our guests to her at the viewing

48
00:02:17,750 --> 00:02:15,960
sites we have over 1,000 guests that

49
00:02:19,820 --> 00:02:17,760
registered out here to watch the ldcm

50
00:02:24,520 --> 00:02:19,830
launch they said the skies were

51
00:02:31,880 --> 00:02:29,690
our lap our mission is now in orbit so

52
00:02:35,000 --> 00:02:31,890
many people have worked such a long time

53
00:02:38,030 --> 00:02:35,010
to make this happen and the organization

54
00:02:40,430 --> 00:02:38,040
i want to put extreme thanks out to is

55
00:02:41,840 --> 00:02:40,440
the orbital corporation for the

56
00:02:44,450 --> 00:02:41,850
satellite effort they put in over the

57
00:02:46,220 --> 00:02:44,460
last year it was really unparalleled in

58
00:02:49,040 --> 00:02:46,230
my career there are great professionals

59
00:02:51,730 --> 00:02:49,050
great to work with they accommodate all

60
00:02:54,410 --> 00:02:51,740
organizations and they made this happen

61
00:02:56,449 --> 00:02:54,420
one awesome note for my mission manager

62
00:02:58,370 --> 00:02:56,459
who's running everything back a NASA

63
00:03:01,580 --> 00:02:58,380

Goddard Space Flight Center it's a

64
00:03:03,170 --> 00:03:01,590
birthday today and I told her she's

65
00:03:07,970 --> 00:03:03,180
never going to get a bigger candle than

66
00:03:11,600 --> 00:03:07,980
this so in closing I don't have to say

67
00:03:16,240 --> 00:03:11,610
go anymore I can say Thank You atlas

68
00:03:19,670 --> 00:03:16,250
Thank You centaur and for LDC I mission

69
00:03:24,320 --> 00:03:19,680
may be along and successful thank you

70
00:03:26,390 --> 00:03:24,330
thank you kid and now to Michael Luther

71
00:03:28,340 --> 00:03:26,400
the deputy associate administrator for

72
00:03:30,880 --> 00:03:28,350
programs for the NASA science Mission

73
00:03:34,610 --> 00:03:30,890
Directorate at NASA headquarters Mike

74
00:03:39,729 --> 00:03:34,620
thanks which will I just like to say

75
00:03:42,530 --> 00:03:39,739
that from the standpoint of headquarters

76
00:03:45,440 --> 00:03:42,540
contribution to this I want to say and a

77
00:03:47,270 --> 00:03:45,450
special thanks to to our other

78
00:03:50,810 --> 00:03:47,280
government partner the Department of

79
00:03:54,920 --> 00:03:50,820
Interior and the US Geological Survey I

80
00:03:58,460 --> 00:03:54,930
was there when we were formulating this

81
00:04:00,020 --> 00:03:58,470
program and it was a difficult task

82
00:04:02,060 --> 00:04:00,030
working with the administration to

83
00:04:04,100 --> 00:04:02,070
figure out exactly what the right

84
00:04:07,039 --> 00:04:04,110
structure of this program should be and

85
00:04:10,190 --> 00:04:07,049
we all pull together and finally got it

86
00:04:15,050 --> 00:04:10,200
got it kicked off put together the team

87
00:04:19,070 --> 00:04:15,060
that Ken leads and has led here to this

88
00:04:21,199 --> 00:04:19,080

point and and so it's a pleasure to see

89
00:04:23,089 --> 00:04:21,209
the success on such a beautiful day and

90
00:04:24,300 --> 00:04:23,099
a beautiful launch I want to take just

91
00:04:27,120 --> 00:04:24,310
one minute and

92
00:04:29,850 --> 00:04:27,130
and say that almost all of our space

93
00:04:33,720 --> 00:04:29,860
programs are difficult they have

94
00:04:36,480 --> 00:04:33,730
challenges of all sorts the this one had

95
00:04:39,420 --> 00:04:36,490
its share and then some and I think it's

96
00:04:42,720 --> 00:04:39,430
worth acknowledging the the the role

97
00:04:47,190 --> 00:04:42,730
that Ken played in the leadership of the

98
00:04:50,460 --> 00:04:47,200
team that included OSC the instrument

99
00:04:52,620 --> 00:04:50,470
providers ball and an Goddard Space

100
00:04:55,680 --> 00:04:52,630
Flight Center and of course the

101
00:04:58,440 --> 00:04:55,690
integration with KSC and ula in the

102
00:05:01,969 --> 00:04:58,450
lunch vehicle but in order to get here

103
00:05:05,520 --> 00:05:01,979
just note that that team worked

104
00:05:08,370 --> 00:05:05,530
basically a 24-7 schedule for about five

105
00:05:13,350 --> 00:05:08,380
months to prior to delivery of

106
00:05:15,570 --> 00:05:13,360
spacecraft for integration to to the

107
00:05:17,820 --> 00:05:15,580
launch vehicle that's not our normal

108
00:05:20,490 --> 00:05:17,830
schedule I can promise you that but they

109
00:05:21,990 --> 00:05:20,500
were super humid in doing so and so it's

110
00:05:23,850 --> 00:05:22,000
a pleasure and it should be very

111
00:05:27,900 --> 00:05:23,860
rewarding for them to see what happened

112
00:05:32,400 --> 00:05:27,910
today I'll just add quickly that this

113
00:05:36,540 --> 00:05:32,410

satellite will join more than 65 other

114
00:05:38,820 --> 00:05:36,550
satellites that have been developed by

115
00:05:42,540 --> 00:05:38,830
the science Mission Directorate and as

116
00:05:44,820 --> 00:05:42,550
we cover our entire solar system and

117
00:05:48,300 --> 00:05:44,830
beyond to advance the state of

118
00:05:50,700 --> 00:05:48,310
scientific knowledge and I know that the

119
00:05:52,680 --> 00:05:50,710
huge international community out there

120
00:05:54,900 --> 00:05:52,690
is breathing a sigh of relief after

121
00:05:57,240 --> 00:05:54,910
seeing a beautiful lunch that uses

122
00:05:59,250 --> 00:05:57,250
Landsat type measurements so thank you

123
00:06:02,070 --> 00:05:59,260
and George back to you thank you Mike

124
00:06:04,640 --> 00:06:02,080
and now to Michael Frogley the director

125
00:06:06,990 --> 00:06:04,650
for NASA's Earth Science Division Mike

126
00:06:12,300 --> 00:06:07,000
thanks very much George and good

127
00:06:14,520 --> 00:06:12,310
afternoon I mean good afternoon ah this

128
00:06:16,770 --> 00:06:14,530
is has just been fantastic I was

129
00:06:19,469 --> 00:06:16,780
thinking that that I would tell you

130
00:06:21,450 --> 00:06:19,479
stories about what actually happened

131
00:06:23,610 --> 00:06:21,460
this morning engineering problem after

132
00:06:25,710 --> 00:06:23,620
engineering problem getting to the end

133
00:06:27,870 --> 00:06:25,720
of the launch window just getting off on

134
00:06:33,000 --> 00:06:27,880
that none of that would be true it was

135
00:06:37,350 --> 00:06:33,010
smooth and a spectacular launch as you

136
00:06:40,589 --> 00:06:37,360
as you saw from our ula partners of

137
00:06:44,249 --> 00:06:40,599
again I can't say enough for the entire

138
00:06:48,029 --> 00:06:44,259

team that that Ken schwere has put

139
00:06:51,360 --> 00:06:48,039
together and led so Abele our partners

140
00:06:53,790 --> 00:06:51,370
in the federal government USGS and the

141
00:06:57,240 --> 00:06:53,800
department of interior of the private

142
00:06:59,249 --> 00:06:57,250
industry partners of ball and Orbital

143
00:07:01,740 --> 00:06:59,259
Sciences Corporation and the whole NASA

144
00:07:06,749 --> 00:07:01,750
team that put this tremendous mission

145
00:07:09,179 --> 00:07:06,759
together ldcm really is a tremendous

146
00:07:12,029 --> 00:07:09,189
mission in the sense that it's not only

147
00:07:15,300 --> 00:07:12,039
going to be continuing the longest

148
00:07:19,499 --> 00:07:15,310
consistently processed record from space

149
00:07:22,290 --> 00:07:19,509
that humanity has of the earth but it's

150
00:07:26,249 --> 00:07:22,300
going to be making improved measurements

151
00:07:29,730 --> 00:07:26,259
over time and those improvements and

152
00:07:34,050 --> 00:07:29,740
that long time series is really going to

153
00:07:37,439 --> 00:07:34,060
give us new insights as to how the

154
00:07:41,010 --> 00:07:37,449
environment is changing and how it will

155
00:07:44,579 --> 00:07:41,020
be impacting humankind like Luther

156
00:07:48,659 --> 00:07:44,589
mentioned that that the international

157
00:07:51,119 --> 00:07:48,669
community is extremely happy today and

158
00:07:54,839 --> 00:07:51,129
well they are thanks to the free and

159
00:07:56,760 --> 00:07:54,849
open data exchange policy that USGS in

160
00:08:00,899 --> 00:07:56,770
the Department of Interior has

161
00:08:04,589 --> 00:08:00,909
instituted have instituted for the for

162
00:08:07,890 --> 00:08:04,599
landsat data everyone around the world

163
00:08:10,709 --> 00:08:07,900

has the opportunity to benefit from the

164
00:08:14,029 --> 00:08:10,719
investment that our nation is making an

165
00:08:17,670 --> 00:08:14,039
understanding the earth last year alone

166
00:08:20,450 --> 00:08:17,680
Landsat data were downloaded by a

167
00:08:23,429 --> 00:08:20,460
hundred and eighty nine separate

168
00:08:25,019 --> 00:08:23,439
countries I don't mean data were taken

169
00:08:27,929 --> 00:08:25,029
over a hundred and eighty nine separate

170
00:08:31,290 --> 00:08:27,939
countries I mean 189 separate countries

171
00:08:34,969 --> 00:08:31,300
actually had groups that used the

172
00:08:37,980 --> 00:08:34,979
measurements this is global impact that

173
00:08:41,490 --> 00:08:37,990
helps humanity and is directly the

174
00:08:44,730 --> 00:08:41,500
result of our national policies we're

175
00:08:49,050 --> 00:08:44,740
where we are helping the world so I

176
00:08:51,120 --> 00:08:49,060
can't be frankly happier than I am today

177
00:08:54,540 --> 00:08:51,130
and thanks again

178
00:08:57,900 --> 00:08:54,550
thanks Michael and now to our partners

179
00:08:59,640 --> 00:08:57,910
in this mission first from an Castle

180
00:09:01,500 --> 00:08:59,650
who's the assistant secretary for water

181
00:09:06,030 --> 00:09:01,510
and science from the US Department of

182
00:09:07,470 --> 00:09:06,040
the Interior and thank you George on

183
00:09:12,630 --> 00:09:07,480
behalf of the Department of the Interior

184
00:09:15,540 --> 00:09:12,640
we are also thrilled about today's

185
00:09:18,840 --> 00:09:15,550
launch and about the partnership that we

186
00:09:21,990 --> 00:09:18,850
have with NASA that has resulted in this

187
00:09:25,470 --> 00:09:22,000
longest continuous series of Earth

188
00:09:27,390 --> 00:09:25,480

observing satellites I it couldn't be a

189
00:09:30,650 --> 00:09:27,400
better partnership really and the

190
00:09:34,530 --> 00:09:30,660
Department of the Interior is both the

191
00:09:37,650 --> 00:09:34,540
partner with NASA in the design and

192
00:09:40,920 --> 00:09:37,660
construction and launch and operation of

193
00:09:43,860 --> 00:09:40,930
the Landsat program but we're also one

194
00:09:47,220 --> 00:09:43,870
of the primary users we have 12

195
00:09:52,220 --> 00:09:47,230
different bureaus each of which uses

196
00:09:56,220 --> 00:09:52,230
Landsat data in our responsibilities to

197
00:10:00,120 --> 00:09:56,230
manage the public lands and so I think

198
00:10:03,600 --> 00:10:00,130
that gives us a unique insight we see

199
00:10:08,520 --> 00:10:03,610
this Landsat program as transformative

200
00:10:10,800 --> 00:10:08,530
it's like when television first bought

201
00:10:13,230 --> 00:10:10,810
images of the Vietnam War into our

202
00:10:16,530 --> 00:10:13,240
living rooms that changed the way we

203
00:10:20,450 --> 00:10:16,540
thought about combat and our place in

204
00:10:24,000 --> 00:10:20,460
the world when Deep Space Telescope's

205
00:10:26,880 --> 00:10:24,010
showed us pictures of stars and planets

206
00:10:29,040 --> 00:10:26,890
that we hadn't seen before that changed

207
00:10:31,230 --> 00:10:29,050
our state of knowledge and allowed us to

208
00:10:33,630 --> 00:10:31,240
see back to the beginning of the

209
00:10:36,450 --> 00:10:33,640
universe that's the kind of

210
00:10:39,930 --> 00:10:36,460
transformative power that Landsat has

211
00:10:43,200 --> 00:10:39,940
had we can see changes in the Earth's

212
00:10:45,570 --> 00:10:43,210
surface over time we can see changes in

213
00:10:48,720 --> 00:10:45,580

the course of rivers and and the marks

214
00:10:51,860 --> 00:10:48,730
left by wildfire that has been

215
00:10:55,490 --> 00:10:51,870
transformative and our understanding of

216
00:11:00,030 --> 00:10:55,500
climate change and of the impacts of

217
00:11:02,850 --> 00:11:00,040
humanity on our earth the free data

218
00:11:04,770 --> 00:11:02,860
policy has also been transformative in

219
00:11:06,810 --> 00:11:04,780
that we

220
00:11:10,080 --> 00:11:06,820
they'll have all over the world is Mike

221
00:11:12,930 --> 00:11:10,090
crye-leike said 189 different countries

222
00:11:15,480 --> 00:11:12,940
using Landsat data although scientists

223
00:11:18,990 --> 00:11:15,490
all those researchers are working from a

224
00:11:21,960 --> 00:11:19,000
common record and that gives us the

225
00:11:24,540 --> 00:11:21,970
ability to leverage our knowledge and to

226
00:11:27,630 --> 00:11:24,550
make more progress in our scientific

227
00:11:30,240 --> 00:11:27,640
understanding of natural resources so

228
00:11:32,400 --> 00:11:30,250
it's it's a very proud very happy day

229
00:11:34,470 --> 00:11:32,410
for us I was listening to a lot of

230
00:11:37,110 --> 00:11:34,480
people who have experienced with these

231
00:11:39,870 --> 00:11:37,120
launches and every single one of them

232
00:11:43,260 --> 00:11:39,880
said they've never seen a more flawless

233
00:11:46,080 --> 00:11:43,270
launch so it's it's a beautiful day

234
00:11:49,110 --> 00:11:46,090
outside and it's a beautiful day in the

235
00:11:52,770 --> 00:11:49,120
operation of the program thank you thank

236
00:11:56,010 --> 00:11:52,780
you can dr. Marcia McNutt the director

237
00:12:02,550 --> 00:11:56,020
of the US Geological Survey Marcia thank

238
00:12:07,830 --> 00:12:02,560

you George well we are all citizens of

239
00:12:13,170 --> 00:12:07,840
planet Earth and as such we all are

240
00:12:18,060 --> 00:12:13,180
dependent on this planet for services it

241
00:12:24,060 --> 00:12:18,070
provides us in terms of clean air clean

242
00:12:31,350 --> 00:12:24,070
water and other services such as raw

243
00:12:35,610 --> 00:12:31,360
materials food timber energy that all

244
00:12:41,990 --> 00:12:35,620
occur on such scales that are so much

245
00:12:47,000 --> 00:12:42,000
larger than us that we have few ways of

246
00:12:50,610 --> 00:12:47,010
understanding the way that we are

247
00:12:54,240 --> 00:12:50,620
changing the ability of this planet to

248
00:13:02,600 --> 00:12:54,250
provide the very services that we need

249
00:13:10,290 --> 00:13:06,090
monitoring system that for the last 40

250
00:13:15,600 --> 00:13:10,300
years has provided every citizen of

251
00:13:17,240 --> 00:13:15,610
planet Earth the scale and the

252
00:13:23,960 --> 00:13:17,250
resolution

253
00:13:28,430 --> 00:13:23,970
to observe for himself or herself the

254
00:13:30,260 --> 00:13:28,440
changes in the ability of this planet to

255
00:13:34,250 --> 00:13:30,270
provide for each and every one of us

256
00:13:37,160 --> 00:13:34,260
those services that we require and I'm

257
00:13:40,670 --> 00:13:37,170
happy to say that thanks to that

258
00:13:45,020 --> 00:13:40,680
flawless lunch today the Landsat legacy

259
00:13:47,630 --> 00:13:45,030
will live on and I want to thank every

260
00:13:52,700 --> 00:13:47,640
single person who is responsible for

261
00:14:01,130 --> 00:13:52,710
that today to our colleagues at NASA to

262
00:14:05,480 --> 00:14:01,140
ball to United Launch to orbital for

263
00:14:10,100 --> 00:14:05,490

many of you the hard work is now in the

264
00:14:14,450 --> 00:14:10,110
past and you're going to stand down for

265
00:14:19,670 --> 00:14:14,460
those of us at USGS the real hard work

266
00:14:22,640 --> 00:14:19,680
is just beginning as we make sure that

267
00:14:25,579 --> 00:14:22,650
every single one of those Landsat scenes

268
00:14:29,480 --> 00:14:25,589
is going to be freely and openly

269
00:14:32,680 --> 00:14:29,490
available to every single person on this

270
00:14:35,600 --> 00:14:32,690
planet with access to the internet

271
00:14:38,870 --> 00:14:35,610
because it's really important that we

272
00:14:42,290 --> 00:14:38,880
all understand what it is that this

273
00:14:46,280 --> 00:14:42,300
planet how it's changing and what we're

274
00:14:50,829 --> 00:14:46,290
doing to it because although we consider

275
00:14:55,280 --> 00:14:50,839
Landsat to be a joint NASA USGS mission

276
00:14:58,850 --> 00:14:55,290
it's not really our satellite it's the

277
00:15:02,930 --> 00:14:58,860
world satellite and we want to keep it

278
00:15:06,470 --> 00:15:02,940
that way so thank you everyone job well

279
00:15:09,079 --> 00:15:06,480
done Thank You Marsha and we're ready

280
00:15:10,730 --> 00:15:09,089
now to take questions when you get the

281
00:15:13,430 --> 00:15:10,740
microphone please be sure to give your

282
00:15:16,270 --> 00:15:13,440
name and your media affiliation you

283
00:15:21,610 --> 00:15:16,280
would and let's see we'll start over

284
00:15:21,620 --> 00:15:25,900
Justin

285
00:15:29,830 --> 00:15:28,690
alright with spaceflight now calm I

286
00:15:31,450 --> 00:15:29,840
guess for Ken could you talk a little

287
00:15:33,010 --> 00:15:31,460
bit about what's to come now the

288
00:15:35,190 --> 00:15:33,020

spacecraft's in or what are some of your

289
00:15:38,080 --> 00:15:35,200
milestones here in the next week or two

290
00:15:40,090 --> 00:15:38,090
sure we actually have what we call a

291
00:15:41,920 --> 00:15:40,100
90-day commissioning period and over the

292
00:15:44,140 --> 00:15:41,930
next week is we're going to activate the

293
00:15:46,390 --> 00:15:44,150
spacecraft and that's all the spacecraft

294
00:15:48,730 --> 00:15:46,400
subsystems check it out make sure the

295
00:15:50,680 --> 00:15:48,740
spacecraft's healthy after that we turn

296
00:15:52,150 --> 00:15:50,690
our focus to the instruments activating

297
00:15:54,250 --> 00:15:52,160
the instruments and we do that over a

298
00:15:56,470 --> 00:15:54,260
couple weeks to make sure both the OL I

299
00:15:59,230 --> 00:15:56,480
and tears instruments are ready to go in

300
00:16:02,200 --> 00:15:59,240
around day 38 or so we're actually going

301
00:16:04,840 --> 00:16:02,210
to do an under fly ldcm will do an under

302
00:16:07,420 --> 00:16:04,850
fly with Landsat 7 this is make sure we

303
00:16:08,860 --> 00:16:07,430
can calibrate validate the sensors

304
00:16:10,690 --> 00:16:08,870
that's the quickest way for us to do

305
00:16:12,700 --> 00:16:10,700
that it's not the only way but it's the

306
00:16:14,980 --> 00:16:12,710
quickest way after that we go to our

307
00:16:17,200 --> 00:16:14,990
final orbit which will be in the same

308
00:16:20,350 --> 00:16:17,210
orbit is Landsat 7 but eight days behind

309
00:16:23,260 --> 00:16:20,360
lat landsat 7 and then we start the

310
00:16:25,720 --> 00:16:23,270
16-day clocks where we run a couple

311
00:16:28,480 --> 00:16:25,730
16-day cycles to make sure we do a good

312
00:16:31,960 --> 00:16:28,490
job in covering the entire surface and

313
00:16:34,840 --> 00:16:31,970

roundel plus 100 we actually turn the

314
00:16:39,210 --> 00:16:34,850
LDC emission over to USGS and at that

315
00:16:44,530 --> 00:16:42,790
ginate just a quick follow-up put as

316
00:16:46,750 --> 00:16:44,540
NASA's role then after that a hundred

317
00:16:50,470 --> 00:16:46,760
days is over at least for your team at

318
00:16:54,010 --> 00:16:50,480
Goddard after that my team essentially

319
00:16:55,750 --> 00:16:54,020
pulls back walks away but the key area

320
00:16:58,030 --> 00:16:55,760
is associated with continuing this

321
00:17:00,100 --> 00:16:58,040
mission like the orbital contract for

322
00:17:02,290 --> 00:17:00,110
the spacecraft in the contract with Ball

323
00:17:04,450 --> 00:17:02,300
Aerospace for all I those contracts are

324
00:17:06,370 --> 00:17:04,460
actually turned over to a USGS to manage

325
00:17:07,990 --> 00:17:06,380
and any kind of support that is needed

326
00:17:10,180 --> 00:17:08,000
from Goddard either on the tears on

327
00:17:11,860 --> 00:17:10,190
submit or engineering support we have an

328
00:17:13,990 --> 00:17:11,870
interagency agreements to make sure that

329
00:17:17,760 --> 00:17:14,000
stays in place as long as they needed

330
00:17:19,720 --> 00:17:17,770
throughout the life of the mission Dora

331
00:17:22,630 --> 00:17:19,730
normal Wallace Santa Barbara news-press

332
00:17:24,430 --> 00:17:22,640
with the improved technology on on this

333
00:17:26,020 --> 00:17:24,440
mission what is your expectation for the

334
00:17:27,490 --> 00:17:26,030
amount of downloads that you'll you'll

335
00:17:31,120 --> 00:17:27,500
see in the coming years when you've

336
00:17:40,300 --> 00:17:37,930
I think we expect to see the number of

337
00:17:42,910 --> 00:17:40,310
downloads accelerating and we've seen

338
00:17:45,970 --> 00:17:42,920

that happening ever since 2008 we went

339
00:17:48,010 --> 00:17:45,980
from with the advent of the free data

340
00:17:51,010 --> 00:17:48,020
policy we went from downloads of about

341
00:17:53,560 --> 00:17:51,020
20,000 images per year to now over 3

342
00:17:55,600 --> 00:17:53,570
million but I don't think we've seen the

343
00:17:58,540 --> 00:17:55,610
end of that acceleration with the

344
00:18:01,390 --> 00:17:58,550
additional sensors in the

345
00:18:03,130 --> 00:18:01,400
instrumentation on Landsat 8 and one

346
00:18:06,790 --> 00:18:03,140
example is we're going to get better

347
00:18:09,690 --> 00:18:06,800
thermal data that will allow more

348
00:18:14,100 --> 00:18:09,700
precise management of water resources

349
00:18:16,990 --> 00:18:14,110
and better ability to forecast the

350
00:18:19,420 --> 00:18:17,000
availability of crop commodities so I

351
00:18:22,150 --> 00:18:19,430
think we'll just continue to see more

352
00:18:24,690 --> 00:18:22,160
applications developed for the use of

353
00:18:27,700 --> 00:18:24,700
Landsat data with the new information

354
00:18:30,070 --> 00:18:27,710
available and consequently more

355
00:18:32,560 --> 00:18:30,080
downloads in addition or I'd say even

356
00:18:38,230 --> 00:18:32,570
though we've had until recently both

357
00:18:43,420 --> 00:18:38,240
Landsat 5 and landsat 7 up there landsat

358
00:18:48,700 --> 00:18:43,430
7 has been the more popular because of

359
00:18:52,690 --> 00:18:48,710
the fact that it was a better instrument

360
00:18:56,470 --> 00:18:52,700
however landsat-7 was experiencing a

361
00:19:01,300 --> 00:18:56,480
22-percent data loss in every scene

362
00:19:07,060 --> 00:19:01,310
because of the the sector line scanner

363
00:19:09,760 --> 00:19:07,070

corrector failure assuming that we have

364
00:19:15,520 --> 00:19:09,770
no problems with the check out for

365
00:19:20,590 --> 00:19:15,530
landsat 8 i'm expecting that users will

366
00:19:23,590 --> 00:19:20,600
instantly prefer landsat 8 / Landsat 7

367
00:19:27,790 --> 00:19:23,600
because of the data quality being

368
00:19:31,870 --> 00:19:27,800
entirely uncorrupted and therefore we

369
00:19:34,480 --> 00:19:31,880
are going to see massive you know

370
00:19:38,110 --> 00:19:34,490
downloads for this data plus we're going

371
00:19:40,600 --> 00:19:38,120
to get 400 rather than 250 scenes per

372
00:19:44,680 --> 00:19:40,610
day so that's going to increase the

373
00:19:46,870 --> 00:19:44,690
volume of downloads as well so they

374
00:19:48,880 --> 00:19:46,880
it's going to increase by you know forty

375
00:19:51,070 --> 00:19:48,890
percent or so the amount of scenes

376
00:19:53,800 --> 00:19:51,080
available so you know you can do the

377
00:19:59,230 --> 00:19:53,810
math as to what the demand is going to

378
00:20:02,260 --> 00:19:59,240
increase by there if I could I have one

379
00:20:06,280 --> 00:20:02,270
one additional thing to that and that is

380
00:20:09,190 --> 00:20:06,290
the extension of the record from ldcm

381
00:20:11,680 --> 00:20:09,200
with accurate measurements and the free

382
00:20:15,250 --> 00:20:11,690
and open data exchange policy will allow

383
00:20:18,280 --> 00:20:15,260
more and more people to be analyzing

384
00:20:21,610 --> 00:20:18,290
this historic multidecadal record for

385
00:20:24,610 --> 00:20:21,620
trends you won't have to choose just one

386
00:20:27,700 --> 00:20:24,620
image here and one image there in time

387
00:20:32,020 --> 00:20:27,710
but rather people all over the world can

388
00:20:35,620 --> 00:20:32,030

be analyzing quantitatively the slow

389
00:20:38,050 --> 00:20:35,630
trends amidst the rapid variation to

390
00:20:42,880 --> 00:20:38,060
understand where it is that this planet

391
00:20:46,390 --> 00:20:42,890
is going if we look at the history of

392
00:20:53,410 --> 00:20:46,400
downloads they are event-driven for

393
00:20:57,520 --> 00:20:53,420
example things like Fukushima the oil

394
00:21:00,430 --> 00:20:57,530
spill the haiti earthquake all of these

395
00:21:05,590 --> 00:21:00,440
events tend to drive a lot of downloads

396
00:21:08,320 --> 00:21:05,600
too so we'll see Janine Janine Scully

397
00:21:11,710 --> 00:21:08,330
santa maria times lompoc record so the

398
00:21:14,170 --> 00:21:11,720
next milestone must be the first images

399
00:21:16,270 --> 00:21:14,180
from landsat how eager are you guys to

400
00:21:18,760 --> 00:21:16,280
see those images and when exactly are

401
00:21:28,150 --> 00:21:18,770
you expecting to get just a early peek

402
00:21:30,610 --> 00:21:28,160
even at one how quickly we we plan to

403
00:21:33,850 --> 00:21:30,620
get an early peek as a team around day

404
00:21:35,360 --> 00:21:33,860
30 and yes a lot of people would be

405
00:21:41,820 --> 00:21:35,370
excited

406
00:21:45,630 --> 00:21:41,830
about in additional questions here in

407
00:21:49,130 --> 00:21:45,640
the room yes right here Roger record the

408
00:21:51,630 --> 00:21:49,140
Arcada I do you guys keep track of the

409
00:21:54,330 --> 00:21:51,640
general public's use versus the

410
00:21:57,930 --> 00:21:54,340
scientific use of the images that are

411
00:22:01,200 --> 00:21:57,940
available well what we can keep track of

412
00:22:06,390 --> 00:22:01,210
is for example how many downloads come

413
00:22:08,760 --> 00:22:06,400

from dot ed use versus dot RGS and to

414
00:22:11,220 --> 00:22:08,770
the extent that someone getting them

415
00:22:16,070 --> 00:22:11,230
from there like gmail account might be

416
00:22:20,420 --> 00:22:16,080
general public versus someone from

417
00:22:25,680 --> 00:22:20,430
academic might be a dot edu then yes and

418
00:22:27,750 --> 00:22:25,690
so we've got pie charts that show how

419
00:22:32,070 --> 00:22:27,760
much is government use versus how much

420
00:22:36,000 --> 00:22:32,080
is academic versus an average citizen

421
00:22:39,150 --> 00:22:36,010
who might be looking at scenes and we've

422
00:22:43,080 --> 00:22:39,160
got statistics that show that shows some

423
00:22:46,470 --> 00:22:43,090
of that any further questions here in

424
00:22:48,210 --> 00:22:46,480
the room all right have we got any

425
00:23:02,320 --> 00:22:48,220
questions at the other NASA field

426
00:23:06,590 --> 00:23:04,220
alright no questions of the other

427
00:23:17,430 --> 00:23:06,600
centers so we'll go on now to Twitter to

428
00:23:26,080 --> 00:23:24,340
not hearing any there so in that event a

429
00:23:29,140 --> 00:23:26,090
little bit about any of further

430
00:23:32,410 --> 00:23:29,150
questions here in the room we're going

431
00:23:34,650 --> 00:23:32,420
to in the program with a replay of

432
00:23:38,770 --> 00:23:34,660
today's launch and in addition to that

433
00:23:40,630 --> 00:23:38,780
somewhat longer scene of the deployment

434
00:23:42,430 --> 00:23:40,640
of the spacecraft from the camera that

435
00:23:45,190 --> 00:23:42,440
was on board the Centaur it was truly

436
00:23:48,280 --> 00:23:45,200
spectacular video so we'll close now

437
00:23:51,160 --> 00:23:48,290
with the video from the launch and then

438
00:23:53,230 --> 00:23:51,170

the ldcm deployment from the Centaur and

439
00:24:02,500 --> 00:23:53,240
that will conclude our post launch news

440
00:24:12,100 --> 00:24:02,510
conference thank you very much 25 status

441
00:24:17,640 --> 00:24:12,110
check go Alice go centaur go ldcm do you

442
00:24:27,320 --> 00:24:17,650
mind is 15 seconds t-minus ten nine

443
00:24:32,720 --> 00:24:30,830
mission and liftoff of the Atlas 5

444
00:24:36,140 --> 00:24:32,730
rocket on the Landsat data continuity

445
00:24:38,810 --> 00:24:36,150
mission continuing the 40-year legacy of