

# Analyzing "Official" UFO Videos



1  
00:00:03,270 --> 00:00:01,990  
i'm very pleased to introduce mick west

2  
00:00:06,150 --> 00:00:03,280  
who um

3  
00:00:06,630 --> 00:00:06,160  
was an erstwhile video game developer

4  
00:00:08,790 --> 00:00:06,640  
and

5  
00:00:10,070 --> 00:00:08,800  
has devoted i guess the last decade or

6  
00:00:12,950 --> 00:00:10,080  
so to

7  
00:00:14,950 --> 00:00:12,960  
popularizing scientific thinking and

8  
00:00:16,070 --> 00:00:14,960  
fighting conspiracy theories and so on

9  
00:00:19,510 --> 00:00:16,080  
he's the

10  
00:00:21,429 --> 00:00:19,520  
author of a a very well received book

11  
00:00:22,950 --> 00:00:21,439  
on fighting conspiracy theories down the

12  
00:00:27,189 --> 00:00:22,960  
rabbit hole which he held up to me

13  
00:00:31,029 --> 00:00:29,429

yeah yeah okay sorry so we can know that

14

00:00:35,110 --> 00:00:31,039

that actually exists

15

00:00:38,150 --> 00:00:35,120

uh he um is has worked

16

00:00:39,110 --> 00:00:38,160

uh to a large extent on trying to debunk

17

00:00:40,709 --> 00:00:39,120

chemtrails

18

00:00:42,790 --> 00:00:40,719

which if if you haven't even heard of

19

00:00:46,470 --> 00:00:42,800

those you should go look up what that is

20

00:00:49,830 --> 00:00:46,480

and you'll discover things by mick um

21

00:00:51,750 --> 00:00:49,840

and latterly the pentagon i guess

22

00:00:52,869 --> 00:00:51,760

released a bunch of ufo videos which

23

00:00:54,709 --> 00:00:52,879

caused a big

24

00:00:56,630 --> 00:00:54,719

big splash people claiming that they

25

00:00:58,389 --> 00:00:56,640

were released secretly during the

26

00:00:59,270 --> 00:00:58,399

pandemic so nobody would notice or

27

00:01:01,510 --> 00:00:59,280

something

28

00:01:03,430 --> 00:01:01,520

but actually lots of people did notice

29

00:01:04,869 --> 00:01:03,440

and uh mick spent some time trying to

30

00:01:06,789 --> 00:01:04,879

explain why

31

00:01:08,550 --> 00:01:06,799

why uh there are rational explanations

32

00:01:10,230 --> 00:01:08,560

for these videos and that's

33

00:01:12,710 --> 00:01:10,240

that's what he's going to talk about to

34

00:01:14,149 --> 00:01:12,720

us today so take it away mick

35

00:01:15,830 --> 00:01:14,159

all right thank you very much douglas

36

00:01:19,270 --> 00:01:15,840

and yeah i'm going to

37

00:01:20,390 --> 00:01:19,280

get to the videos very quickly uh first

38

00:01:22,310 --> 00:01:20,400

of all i'm just going to give you a bit

39

00:01:23,109 --> 00:01:22,320

more specific background as to who i am

40

00:01:26,149 --> 00:01:23,119

and why i

41

00:01:27,749 --> 00:01:26,159

am well suited to doing this uh

42

00:01:29,590 --> 00:01:27,759

i am a video game programmer which you

43

00:01:31,990 --> 00:01:29,600

might think isn't particularly useful

44

00:01:34,550 --> 00:01:32,000

retired video game programmer and in

45

00:01:36,710 --> 00:01:34,560

1999 i did tony hawk's pro skater which

46

00:01:38,149 --> 00:01:36,720

is a very popular game at the time

47

00:01:39,749 --> 00:01:38,159

but doing video games you have to be

48

00:01:41,749 --> 00:01:39,759

experts in a bunch of things one of the

49

00:01:43,270 --> 00:01:41,759

one of which is like 3d graphics

50

00:01:43,830 --> 00:01:43,280

figuring out where things are in 3d

51  
00:01:46,550 --> 00:01:43,840  
space

52  
00:01:48,069 --> 00:01:46,560  
and coding up uh solutions for 3d

53  
00:01:49,670 --> 00:01:48,079  
problems how to get something from here

54  
00:01:50,469 --> 00:01:49,680  
to there what something looks like from

55  
00:01:53,590 --> 00:01:50,479  
a certain position

56  
00:01:57,270 --> 00:01:56,389  
in 2006 after i retired from the video

57  
00:01:59,350 --> 00:01:57,280  
game industry

58  
00:02:00,789 --> 00:01:59,360  
i started a website called contrail

59  
00:02:03,030 --> 00:02:00,799  
science which was

60  
00:02:04,149 --> 00:02:03,040  
uh looking into the uh the chemtrails

61  
00:02:06,709 --> 00:02:04,159  
conspiracy theory

62  
00:02:08,469 --> 00:02:06,719  
and i kind of became an expert in uh in

63  
00:02:09,430 --> 00:02:08,479

contrails and identifying aircraft

64

00:02:10,949 --> 00:02:09,440

because a lot of the time people will

65

00:02:12,150 --> 00:02:10,959

see strange aircraft in the sky and

66

00:02:13,030 --> 00:02:12,160

think it was some kind of government

67

00:02:15,430 --> 00:02:13,040

plot

68

00:02:17,510 --> 00:02:15,440

and so i would uh figure out what it was

69

00:02:18,710 --> 00:02:17,520

uh looking it up on flight rider 24

70

00:02:21,350 --> 00:02:18,720

usually

71

00:02:22,229 --> 00:02:21,360

in 2010 i founded metabunk which is a

72

00:02:24,309 --> 00:02:22,239

more general

73

00:02:26,390 --> 00:02:24,319

investigating and debunking site and

74

00:02:28,229 --> 00:02:26,400

there i gained a whole bunch of skills

75

00:02:31,830 --> 00:02:28,239

in debunking conspiracy theories

76  
00:02:32,229 --> 00:02:31,840  
and uh analyzing ufo videos using all of

77  
00:02:34,550 --> 00:02:32,239  
the

78  
00:02:36,309 --> 00:02:34,560  
previous skills that i have just

79  
00:02:38,470 --> 00:02:36,319  
outlined 3d graphics

80  
00:02:39,350 --> 00:02:38,480  
tracking down planes things like that

81  
00:02:42,949 --> 00:02:39,360  
all right

82  
00:02:44,470 --> 00:02:42,959  
so these u.s navy ufo videos

83  
00:02:46,309 --> 00:02:44,480  
let's have a look at some historical

84  
00:02:47,670 --> 00:02:46,319  
context i'm going to do this in reverse

85  
00:02:49,030 --> 00:02:47,680  
so we're going to start out in present

86  
00:02:50,470 --> 00:02:49,040  
day and we'll go back to where they

87  
00:02:52,070 --> 00:02:50,480  
actually came from which

88  
00:02:53,509 --> 00:02:52,080

it wasn't actually during the pandemic

89

00:02:54,790 --> 00:02:53,519

it was sometime

90

00:02:56,710 --> 00:02:54,800

quite quite a long time before the

91

00:02:59,430 --> 00:02:56,720

pandemic so

92

00:03:00,309 --> 00:02:59,440

the most recent thing was that in uh

93

00:03:03,350 --> 00:03:00,319

august 20

94

00:03:05,270 --> 00:03:03,360

2020 the department of defense announced

95

00:03:08,790 --> 00:03:05,280

they've established a uap

96

00:03:11,270 --> 00:03:08,800

task force to study uaps

97

00:03:12,710 --> 00:03:11,280

now uaps are really the same thing as

98

00:03:16,229 --> 00:03:12,720

ufos

99

00:03:19,030 --> 00:03:16,239

a u u a p is a

100

00:03:21,670 --> 00:03:19,040

unidentified aerial phenomenon and a ufo

101

00:03:25,190 --> 00:03:21,680

is an unidentified flying object

102

00:03:26,949 --> 00:03:25,200

and i guess the phenomenon thing

103

00:03:28,869 --> 00:03:26,959

encompasses things like lights in the

104

00:03:29,509 --> 00:03:28,879

sky which might not actually be objects

105

00:03:31,589 --> 00:03:29,519

for example

106

00:03:32,789 --> 00:03:31,599

venus even though it's an object it's

107

00:03:34,470 --> 00:03:32,799

really

108

00:03:35,910 --> 00:03:34,480

for most people just a light in the sky

109

00:03:37,190 --> 00:03:35,920

it's not actually flying through the

110

00:03:39,670 --> 00:03:37,200

atmosphere it's

111

00:03:41,670 --> 00:03:39,680

a light from some heavenly body far away

112

00:03:44,070 --> 00:03:41,680

so it's more all-encompassing

113

00:03:45,990 --> 00:03:44,080

and it kind of loses a bit of the stigma

114

00:03:48,440 --> 00:03:46,000

of ufo which people think of being

115

00:03:49,509 --> 00:03:48,450

a kind of x-files type thing

116

00:03:51,910 --> 00:03:49,519

[Music]

117

00:03:54,630 --> 00:03:51,920

so uaps their terms will be used

118

00:03:57,190 --> 00:03:54,640

interchangeably here

119

00:03:58,830 --> 00:03:57,200

april 27 2020 and this is what we're

120

00:04:00,550 --> 00:03:58,840

really talking about the videos were

121

00:04:04,309 --> 00:04:00,560

released and

122

00:04:06,789 --> 00:04:04,319

uh even says release right there now

123

00:04:09,350 --> 00:04:06,799

they released these three videos but

124

00:04:10,869 --> 00:04:09,360

what actually happened was

125

00:04:12,550 --> 00:04:10,879

the videos were already out there and it

126

00:04:15,429 --> 00:04:12,560

says that here in

127

00:04:16,150 --> 00:04:15,439

uh in the the release that they were

128

00:04:17,509 --> 00:04:16,160

actually

129

00:04:19,270 --> 00:04:17,519

have been circulating in the public

130

00:04:21,509 --> 00:04:19,280

domain after unauthorized releases in

131

00:04:23,430 --> 00:04:21,519

2007 and 2017. so

132

00:04:25,510 --> 00:04:23,440

nothing at all to do with the pandemic

133

00:04:26,830 --> 00:04:25,520

they came out in 2017

134

00:04:29,270 --> 00:04:26,840

or one of them actually came out in

135

00:04:31,350 --> 00:04:29,280

2007.

136

00:04:32,710 --> 00:04:31,360

so those three uh us navy videos are

137

00:04:35,749 --> 00:04:32,720

called fleur one

138

00:04:37,670 --> 00:04:35,759

gimbal and go fast three uh similar

139

00:04:38,629 --> 00:04:37,680

looking but very different videos and

140

00:04:42,230 --> 00:04:38,639

i'm gonna go

141

00:04:45,510 --> 00:04:42,240

over each one of them

142

00:04:47,270 --> 00:04:45,520

uh first of all like the the release of

143

00:04:49,110 --> 00:04:47,280

these videos created enormous amount of

144

00:04:49,350 --> 00:04:49,120

media attention and i think this is kind

145

00:04:52,310 --> 00:04:49,360

of

146

00:04:53,670 --> 00:04:52,320

muddied the water because people uh

147

00:04:54,469 --> 00:04:53,680

presented these videos as being

148

00:04:59,189 --> 00:04:54,479

something

149

00:05:02,230 --> 00:04:59,199

has admitted is real

150

00:05:05,029 --> 00:05:02,240

and it's like it's uh it's you know it's

151

00:05:06,230 --> 00:05:05,039

it's disclosure into the ufo uh

152

00:05:07,830 --> 00:05:06,240

community term

153

00:05:09,749 --> 00:05:07,840

people think that the government has

154

00:05:11,110 --> 00:05:09,759

finally admitted that ufos are real but

155

00:05:14,390 --> 00:05:11,120

they haven't really they've just

156

00:05:17,189 --> 00:05:14,400

released these three videos

157

00:05:19,990 --> 00:05:17,199

uh the most recent of the three videos

158

00:05:21,670 --> 00:05:20,000

came out back in march 2018 this was the

159

00:05:24,950 --> 00:05:21,680

go fast video it was in the the

160

00:05:26,150 --> 00:05:24,960

washington post thus

161

00:05:28,390 --> 00:05:26,160

it was actually released by an

162

00:05:29,590 --> 00:05:28,400

organization called the to the stars

163

00:05:33,110 --> 00:05:29,600

academy

164

00:05:34,469 --> 00:05:33,120

interesting organization it's actually

165

00:05:37,110 --> 00:05:34,479

run by

166

00:05:37,590 --> 00:05:37,120

tom delong and if you don't know who tom

167

00:05:40,950 --> 00:05:37,600

delong

168

00:05:43,990 --> 00:05:40,960

is he is the lead singer and guitarist

169

00:05:47,430 --> 00:05:44,000

for blink 182 which is a uh

170

00:05:50,710 --> 00:05:47,440

pop group uh from you know

171

00:05:51,990 --> 00:05:50,720

a decade ago or so so he's running this

172

00:05:53,590 --> 00:05:52,000

organization with his millions of

173

00:05:55,270 --> 00:05:53,600

dollars that he made in the music

174

00:05:57,590 --> 00:05:55,280

industry and he's trying to

175

00:05:59,189 --> 00:05:57,600

bring ufos to public knowledge

176

00:06:01,749 --> 00:05:59,199

fascinating story but not what we're

177

00:06:04,629 --> 00:06:01,759

talking about here exactly

178

00:06:06,390 --> 00:06:04,639

the real start of this is in december

179

00:06:08,150 --> 00:06:06,400

2017 when the new york times

180

00:06:09,510 --> 00:06:08,160

published this story that said glowing

181

00:06:12,870 --> 00:06:09,520

auras and black money

182

00:06:15,110 --> 00:06:12,880

the pentagon's mysterious ufo program

183

00:06:16,870 --> 00:06:15,120

and they released the other two videos

184

00:06:20,070 --> 00:06:16,880

the one called flare one

185

00:06:21,830 --> 00:06:20,080

and the other one called gimbal and

186

00:06:23,189 --> 00:06:21,840

they they made a big deal of it they

187

00:06:25,749 --> 00:06:23,199

said it was uh

188

00:06:27,830 --> 00:06:25,759

you know a revelation that the pentagon

189

00:06:28,550 --> 00:06:27,840

was investigating ufos and the pentagon

190

00:06:31,110 --> 00:06:28,560

had these

191

00:06:32,309 --> 00:06:31,120

these official videos yeah the pentagon

192

00:06:33,110 --> 00:06:32,319

didn't really agree with them on this

193

00:06:34,629 --> 00:06:33,120

because they

194

00:06:36,710 --> 00:06:34,639

didn't actually officially release them

195

00:06:38,990 --> 00:06:36,720

then the official release came later but

196

00:06:43,590 --> 00:06:39,000

essentially they came out in december

197

00:06:45,990 --> 00:06:43,600

2017. um

198

00:06:47,350 --> 00:06:46,000

and also in december 2017 that was kind

199

00:06:48,950 --> 00:06:47,360

of the founding of the to the stars

200

00:06:49,510 --> 00:06:48,960

academy here they were kind of linked

201  
00:06:51,189 --> 00:06:49,520  
together

202  
00:06:53,189 --> 00:06:51,199  
they coordinated the release with the

203  
00:06:54,629 --> 00:06:53,199  
new york times so tom de long was

204  
00:06:57,670 --> 00:06:54,639  
promoting this whole thing so that's

205  
00:06:58,950 --> 00:06:57,680  
where these videos came from

206  
00:07:01,909 --> 00:06:58,960  
the first video actually came out in

207  
00:07:03,670 --> 00:07:01,919  
2007 in the above top secret forum which

208  
00:07:06,710 --> 00:07:03,680  
is a kind of conspiracy

209  
00:07:08,309 --> 00:07:06,720  
oriented website uh from back in the day

210  
00:07:09,510 --> 00:07:08,319  
uh yeah a really really long time ago

211  
00:07:11,589 --> 00:07:09,520  
this has been running

212  
00:07:13,589 --> 00:07:11,599  
and uh it links to the video and the

213  
00:07:15,029 --> 00:07:13,599

link actually still works if you use the

214

00:07:17,990 --> 00:07:15,039

archive.org link

215

00:07:19,350 --> 00:07:18,000

the uh way back machine that video is

216

00:07:20,309 --> 00:07:19,360

still there it was actually released in

217

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

2007

218

00:07:23,990 --> 00:07:22,639

it's the same video as it is today it

219

00:07:25,350 --> 00:07:24,000

didn't get much attention back then

220

00:07:26,390 --> 00:07:25,360

because people thought it was fake but

221

00:07:27,909 --> 00:07:26,400

now people

222

00:07:30,469 --> 00:07:27,919

know that it's real it's a real navy

223

00:07:32,469 --> 00:07:30,479

video it gets a lot more attention

224

00:07:34,550 --> 00:07:32,479

okay so before i get to those two videos

225

00:07:37,589 --> 00:07:34,560

i'm going to have a quick look at two

226

00:07:38,150 --> 00:07:37,599

older cases that share some of the same

227

00:07:40,629 --> 00:07:38,160

features

228

00:07:43,110 --> 00:07:40,639

and they're quite illustrative in how

229

00:07:46,070 --> 00:07:43,120

how we should look at cases like this

230

00:07:48,070 --> 00:07:46,080

one of them is the 2010 mystery missile

231

00:07:51,029 --> 00:07:48,080

case over los angeles

232

00:07:52,070 --> 00:07:51,039

and the other one is the 2017 chilean

233

00:07:55,510 --> 00:07:52,080

navy ufo

234

00:07:55,990 --> 00:07:55,520

case 2010 mystery missile this is a big

235

00:07:58,230 --> 00:07:56,000

deal

236

00:07:59,189 --> 00:07:58,240

back in 2010 you may remember it if you

237

00:08:02,309 --> 00:07:59,199

were old enough

238

00:08:04,950 --> 00:08:02,319

and uh someone fired a missile

239

00:08:05,830 --> 00:08:04,960

over los angeles nobody knew what it was

240

00:08:07,510 --> 00:08:05,840

the military

241

00:08:08,629 --> 00:08:07,520

didn't know what it was and they said it

242

00:08:10,469 --> 00:08:08,639

wasn't them and they didn't know what it

243

00:08:11,189 --> 00:08:10,479

was they thought it was 35 miles off the

244

00:08:14,230 --> 00:08:11,199

coast of los

245

00:08:16,469 --> 00:08:14,240

angeles and people were suspecting it

246

00:08:18,309 --> 00:08:16,479

was the chinese doing a show of force

247

00:08:19,990 --> 00:08:18,319

very dramatic looking uh footage there

248

00:08:23,270 --> 00:08:20,000

of the what looks like a missile

249

00:08:26,150 --> 00:08:24,710

the media likes to have experts so they

250

00:08:27,909 --> 00:08:26,160

went out and found a couple of experts

251  
00:08:30,790 --> 00:08:27,919  
they found robert ellsworth the former

252  
00:08:31,830 --> 00:08:30,800  
deputy secretary of defense and tom

253  
00:08:34,070 --> 00:08:31,840  
mcinery

254  
00:08:36,469 --> 00:08:34,080  
a general and former fighter pilot and

255  
00:08:38,550 --> 00:08:36,479  
both of them said it is a

256  
00:08:40,550 --> 00:08:38,560  
a missile and the general in fact was

257  
00:08:42,230 --> 00:08:40,560  
100 certainly he said he'd flown

258  
00:08:43,670 --> 00:08:42,240  
hundreds of combat missions

259  
00:08:45,269 --> 00:08:43,680  
and he knew exactly what a missile

260  
00:08:46,550 --> 00:08:45,279  
launch looked like and this was a

261  
00:08:49,269 --> 00:08:46,560  
missile launch

262  
00:08:50,389 --> 00:08:49,279  
but he was wrong it is was not in fact a

263  
00:08:52,070 --> 00:08:50,399

missile launch

264

00:08:53,829 --> 00:08:52,080

uh it was something i'd seen before

265

00:08:55,430 --> 00:08:53,839

because i'm a contrail guy i'm a

266

00:08:57,269 --> 00:08:55,440

contrail expert

267

00:08:58,790 --> 00:08:57,279

so i see all kinds of unusual contrails

268

00:09:02,230 --> 00:08:58,800

and i've seen this

269

00:09:03,110 --> 00:09:02,240

contrail uh the year before december 31

270

00:09:05,110 --> 00:09:03,120

2009

271

00:09:06,790 --> 00:09:05,120

a plane flying towards the camera over

272

00:09:09,350 --> 00:09:06,800

the horizon left a contrail

273

00:09:10,870 --> 00:09:09,360

which let looked very much like this one

274

00:09:12,070 --> 00:09:10,880

so i kind of recognized it immediately

275

00:09:15,269 --> 00:09:12,080

as a contrail

276

00:09:17,269 --> 00:09:15,279

the test then was to figure out how to

277

00:09:19,430 --> 00:09:17,279

show this to people so it's kind of long

278

00:09:21,750 --> 00:09:19,440

sure is short um

279

00:09:23,590 --> 00:09:21,760

me and another guy kind of tracks down

280

00:09:26,150 --> 00:09:23,600

what planes were coming over the horizon

281

00:09:29,590 --> 00:09:26,160

towards los angeles at that time

282

00:09:31,829 --> 00:09:29,600

we imported the into google earth

283

00:09:33,509 --> 00:09:31,839

and we plotted where they were we moved

284

00:09:34,790 --> 00:09:33,519

the viewpoint to the camera down to

285

00:09:37,110 --> 00:09:34,800

where the

286

00:09:39,190 --> 00:09:37,120

footage was taken from then we moved it

287

00:09:40,630 --> 00:09:39,200

to some guy's house because some guy had

288

00:09:42,790 --> 00:09:40,640

taken a whole bunch of photos of this

289

00:09:44,550 --> 00:09:42,800

this ufo so we found his house got the

290

00:09:47,750 --> 00:09:44,560

photos we overlaid them

291

00:09:48,949 --> 00:09:47,760

uh tracked the top of the track overlaid

292

00:09:51,829 --> 00:09:48,959

it over the radar track

293

00:09:53,509 --> 00:09:51,839

and it was a perfect match matched

294

00:09:54,710 --> 00:09:53,519

exactly with its radar track so that

295

00:09:56,870 --> 00:09:54,720

basically proved

296

00:09:59,110 --> 00:09:56,880

100 this was what it was it was just a

297

00:10:01,110 --> 00:09:59,120

plane it was leaving a contrail

298

00:10:03,590 --> 00:10:01,120

it wasn't in fact a missile so the

299

00:10:08,150 --> 00:10:03,600

general was wrong

300

00:10:13,350 --> 00:10:11,509

excuse me experts make mistakes

301  
00:10:15,030 --> 00:10:13,360  
even former government officials and

302  
00:10:17,509 --> 00:10:15,040  
fighter pilots and generals

303  
00:10:19,110 --> 00:10:17,519  
perspective can be very confusing

304  
00:10:20,069 --> 00:10:19,120  
especially when things are a long way

305  
00:10:22,389 --> 00:10:20,079  
away

306  
00:10:24,230 --> 00:10:22,399  
powerful zoom magnifies this the

307  
00:10:25,829 --> 00:10:24,240  
illusions of perspective perspective

308  
00:10:26,710 --> 00:10:25,839  
compression when you're zooming in on

309  
00:10:28,949 --> 00:10:26,720  
something

310  
00:10:31,269 --> 00:10:28,959  
uh it looks very different to when

311  
00:10:33,829 --> 00:10:31,279  
you're actually much closer to it so

312  
00:10:35,750 --> 00:10:33,839  
zoom is a confounding factor the earth

313  
00:10:37,670 --> 00:10:35,760

is not flat things come over the horizon

314

00:10:39,430 --> 00:10:37,680

they don't just uh disappear over

315

00:10:41,670 --> 00:10:39,440

the the top they actually come over the

316

00:10:43,910 --> 00:10:41,680

horizon so that makes it look like it

317

00:10:47,350 --> 00:10:43,920

was flying up in the air

318

00:10:50,630 --> 00:10:47,360

small or far away small or far away is

319

00:10:53,110 --> 00:10:50,640

a common problem in ufo ology

320

00:10:54,389 --> 00:10:53,120

when people are looking at things that

321

00:10:56,150 --> 00:10:54,399

they don't know what they are

322

00:10:58,310 --> 00:10:56,160

and they don't know how big they are you

323

00:10:59,509 --> 00:10:58,320

don't know how far away they are

324

00:11:02,069 --> 00:10:59,519

if you have something that's just like a

325

00:11:03,990 --> 00:11:02,079

little black speck just in front of you

326

00:11:05,750 --> 00:11:04,000

uh you if you don't know how big that

327

00:11:07,509 --> 00:11:05,760

spec is you don't know if it's actually

328

00:11:09,030 --> 00:11:07,519

in front of you or if it's like several

329

00:11:10,710 --> 00:11:09,040

feet in front of you or perhaps even

330

00:11:12,230 --> 00:11:10,720

miles in front of you especially if you

331

00:11:13,910 --> 00:11:12,240

close one eye you don't have a stereo

332

00:11:15,590 --> 00:11:13,920

vision you use your camera which doesn't

333

00:11:19,350 --> 00:11:15,600

have stereo vision

334

00:11:20,550 --> 00:11:19,360

small or far away is a a major problem

335

00:11:23,110 --> 00:11:20,560

when people are trying to figure out

336

00:11:26,790 --> 00:11:23,120

where things are the military

337

00:11:28,230 --> 00:11:26,800

is not very helpful a missile was

338

00:11:32,069 --> 00:11:28,240

launched over los angeles

339

00:11:34,310 --> 00:11:32,079

and yet they were like i don't know so

340

00:11:35,190 --> 00:11:34,320

the military is is hampered because

341

00:11:36,949 --> 00:11:35,200

everything they

342

00:11:38,870 --> 00:11:36,959

tell the public has to go through

343

00:11:40,470 --> 00:11:38,880

official channels they can't just

344

00:11:41,990 --> 00:11:40,480

like look it up on their servers and say

345

00:11:44,230 --> 00:11:42,000

oh yeah that was uh that was this

346

00:11:45,750 --> 00:11:44,240

all that they have to they have to

347

00:11:47,829 --> 00:11:45,760

declassify everything essentially have

348

00:11:49,670 --> 00:11:47,839

to approve it for public release

349

00:11:50,870 --> 00:11:49,680

so when you ask the military something

350

00:11:52,310 --> 00:11:50,880

you're not going to get an answer

351  
00:11:52,790 --> 00:11:52,320  
straight away and you may not get an

352  
00:11:55,030 --> 00:11:52,800  
answer

353  
00:11:55,990 --> 00:11:55,040  
ever because things may end up being

354  
00:11:59,269 --> 00:11:56,000  
classified

355  
00:12:02,310 --> 00:11:59,279  
by default all right

356  
00:12:03,750 --> 00:12:02,320  
uh case number two the chilean navy ufo

357  
00:12:07,110 --> 00:12:03,760  
this was an interesting uh

358  
00:12:10,310 --> 00:12:07,120  
case and uh it's this infrared video

359  
00:12:11,910 --> 00:12:10,320  
it's infrared and in this in this video

360  
00:12:13,670 --> 00:12:11,920  
infrared video

361  
00:12:15,030 --> 00:12:13,680  
black is actually hot so this is kind of

362  
00:12:15,750 --> 00:12:15,040  
inverted from what you would you would

363  
00:12:18,389 --> 00:12:15,760

think of

364

00:12:20,629 --> 00:12:18,399

as being a normal infrared where white

365

00:12:22,230 --> 00:12:20,639

would be hot so the black objects here

366

00:12:25,430 --> 00:12:22,240

are hot so the thing in the middle

367

00:12:28,629 --> 00:12:25,440

of the screen here is actually uh

368

00:12:30,790 --> 00:12:28,639

actually a hot object and it's

369

00:12:32,790 --> 00:12:30,800

uh it's interesting because it leaves

370

00:12:34,629 --> 00:12:32,800

this this trail which is also

371

00:12:36,310 --> 00:12:34,639

appears to be hot so it was very

372

00:12:36,550 --> 00:12:36,320

mysterious as to what this actually was

373

00:12:48,949 --> 00:12:36,560

and

374

00:12:51,030 --> 00:12:48,959

they were very effusive about this they

375

00:12:53,110 --> 00:12:51,040

said this was an exceptional nine-minute

376

00:12:54,470 --> 00:12:53,120

navy video of a ufo displaying highly

377

00:12:56,389 --> 00:12:54,480

unusual behavior

378

00:12:57,670 --> 00:12:56,399

studied by chilean authorities for the

379

00:12:59,430 --> 00:12:57,680

past two years

380

00:13:01,190 --> 00:12:59,440

and like that sinking they studied it

381

00:13:02,870 --> 00:13:01,200

for two years

382

00:13:04,389 --> 00:13:02,880

these were highly trained professionals

383

00:13:05,910 --> 00:13:04,399

with many years experience

384

00:13:07,990 --> 00:13:05,920

and they were absolutely certain that

385

00:13:09,590 --> 00:13:08,000

they could not explain what they saw

386

00:13:11,110 --> 00:13:09,600

this is something we hear a lot as well

387

00:13:13,670 --> 00:13:11,120

highly trained professionals

388

00:13:15,590 --> 00:13:13,680

experts can't explain it and the

389

00:13:18,310 --> 00:13:15,600

official conclusion was that it's a uap

390

00:13:19,990 --> 00:13:18,320

an under an identified aerial phenomena

391

00:13:22,150 --> 00:13:20,000

due to the number of highly researched

392

00:13:25,190 --> 00:13:22,160

reasons that it was unanimously agreed

393

00:13:27,350 --> 00:13:25,200

could not explain it

394

00:13:28,629 --> 00:13:27,360

that's a lot of convolutive uh way of

395

00:13:29,910 --> 00:13:28,639

saying they eliminated

396

00:13:31,670 --> 00:13:29,920

everything that they thought was

397

00:13:35,590 --> 00:13:31,680

possible so it must be the

398

00:13:38,870 --> 00:13:35,600

impossible a alien spaceship

399

00:13:41,189 --> 00:13:38,880

the problem here is that something i

400

00:13:44,870 --> 00:13:41,199

call premature elimination

401  
00:13:47,350 --> 00:13:44,880  
people like to cross things off a list

402  
00:13:48,629 --> 00:13:47,360  
so the experts start studying this this

403  
00:13:50,629 --> 00:13:48,639  
thing and they eliminate

404  
00:13:52,230 --> 00:13:50,639  
all these things on the list so first of

405  
00:13:54,150 --> 00:13:52,240  
all they eliminate a plane

406  
00:13:55,590 --> 00:13:54,160  
uh it couldn't be a plane because it

407  
00:13:57,269 --> 00:13:55,600  
wouldn't have shown up it would have

408  
00:13:58,710 --> 00:13:57,279  
shown up on the radar and it didn't

409  
00:14:00,550 --> 00:13:58,720  
it would have answered the radio and it

410  
00:14:02,310 --> 00:14:00,560  
didn't answer the radio planes don't

411  
00:14:04,470 --> 00:14:02,320  
dump hot liquid uh

412  
00:14:06,389 --> 00:14:04,480  
and contrails if it was a plain contrail

413  
00:14:07,350 --> 00:14:06,399

only form above 26 000 feet and they

414

00:14:10,629 --> 00:14:07,360

thought it was around 10

415

00:14:11,110 --> 00:14:10,639

000 feet so not a plate they eliminate a

416

00:14:12,790 --> 00:14:11,120

plane

417

00:14:13,990 --> 00:14:12,800

it's not space junk which seems fairly

418

00:14:15,110 --> 00:14:14,000

obvious you're not going to get things

419

00:14:17,030 --> 00:14:15,120

flying out of space that

420

00:14:18,629 --> 00:14:17,040

would look like that it's not a hoax

421

00:14:19,750 --> 00:14:18,639

they analyzed the video couldn't find

422

00:14:21,509 --> 00:14:19,760

anything wrong with it it's not a

423

00:14:23,590 --> 00:14:21,519

balloon because it was moving

424

00:14:24,550 --> 00:14:23,600

like too fast and balloons don't spew

425

00:14:26,790 --> 00:14:24,560

things out either

426

00:14:28,310 --> 00:14:26,800

wasn't a bird or an insect obviously not

427

00:14:30,629 --> 00:14:28,320

i don't know why they even did that

428

00:14:31,829 --> 00:14:30,639

not a drone and the reason for that was

429

00:14:34,310 --> 00:14:31,839

that it would have been registered and

430

00:14:36,790 --> 00:14:34,320

they would have known where it was

431

00:14:38,150 --> 00:14:36,800

not a parachute or a hang glider uh

432

00:14:40,310 --> 00:14:38,160

because it looks wrong

433

00:14:42,470 --> 00:14:40,320

and so they they eliminated all of these

434

00:14:44,230 --> 00:14:42,480

uh these possibilities and this

435

00:14:46,389 --> 00:14:44,240

is an actual photograph this photograph

436

00:14:48,310 --> 00:14:46,399

here is actually this group of people

437

00:14:48,949 --> 00:14:48,320

this safer scientific and military

438

00:14:50,949 --> 00:14:48,959

committee

439

00:14:52,470 --> 00:14:50,959

a bunch of people from the military and

440

00:14:54,710 --> 00:14:52,480

the scientific community

441

00:14:55,829 --> 00:14:54,720

got together every few weeks to discuss

442

00:14:57,189 --> 00:14:55,839

this for two years

443

00:14:58,470 --> 00:14:57,199

some did a bunch of tests tried to

444

00:14:59,910 --> 00:14:58,480

figure it out they couldn't figure it

445

00:15:02,389 --> 00:14:59,920

out took them two years

446

00:15:04,230 --> 00:15:02,399

so they eventually released the story to

447

00:15:07,430 --> 00:15:04,240

the huffington post

448

00:15:08,790 --> 00:15:07,440

so metabunk my website uh we did an

449

00:15:10,790 --> 00:15:08,800

investigation on

450

00:15:12,470 --> 00:15:10,800

january 5th huffington post released the

451  
00:15:15,509 --> 00:15:12,480  
video january 6

452  
00:15:17,350 --> 00:15:15,519  
somebody tweets to me at mcques could be

453  
00:15:18,870 --> 00:15:17,360  
a plane in his contrail

454  
00:15:21,430 --> 00:15:18,880  
now i hadn't seen this before so i took

455  
00:15:24,150 --> 00:15:21,440  
a look at it and uh could he be yes

456  
00:15:26,069 --> 00:15:24,160  
yes he could and i i recognize this as a

457  
00:15:29,430 --> 00:15:26,079  
type of contrail called an

458  
00:15:31,269 --> 00:15:29,440  
aerodynamic contrail which is

459  
00:15:32,550 --> 00:15:31,279  
a type of contrail that forms at much

460  
00:15:33,670 --> 00:15:32,560  
lower altitudes

461  
00:15:35,590 --> 00:15:33,680  
now you might ask you know what's an

462  
00:15:37,269 --> 00:15:35,600  
area what's aerodynamic about it

463  
00:15:38,790 --> 00:15:37,279

there's two types of contrails

464

00:15:41,030 --> 00:15:38,800

aerodynamic contrails and

465

00:15:42,629 --> 00:15:41,040

exhaust contrails exhaust controls are

466

00:15:44,150 --> 00:15:42,639

what you normally see it's the exhaust

467

00:15:46,389 --> 00:15:44,160

coming out of the engine

468

00:15:47,430 --> 00:15:46,399

aerodynamic contrails they form over the

469

00:15:49,509 --> 00:15:47,440

wings

470

00:15:51,110 --> 00:15:49,519

and they actually form in different

471

00:15:53,350 --> 00:15:51,120

atmospheric conditions

472

00:15:55,110 --> 00:15:53,360

and so they they can they can form at a

473

00:15:56,550 --> 00:15:55,120

lower altitude so

474

00:15:58,710 --> 00:15:56,560

that was also something that the experts

475

00:16:01,910 --> 00:15:58,720

were wrong about

476

00:16:04,629 --> 00:16:01,920

so why is it hot they they say uh

477

00:16:05,430 --> 00:16:04,639

how can it be hot contrails are clouds

478

00:16:06,949 --> 00:16:05,440

so

479

00:16:09,110 --> 00:16:06,959

clouds will be cold if they're up in the

480

00:16:09,430 --> 00:16:09,120

sky uh but you know two things about

481

00:16:11,430 --> 00:16:09,440

that

482

00:16:12,949 --> 00:16:11,440

first of all look at the other clouds

483

00:16:15,350 --> 00:16:12,959

the other clouds are also

484

00:16:16,870 --> 00:16:15,360

hot looking they're dark now this one

485

00:16:18,470 --> 00:16:16,880

over here is just as dark as the

486

00:16:20,949 --> 00:16:18,480

contrail

487

00:16:22,150 --> 00:16:20,959

and the reason that they are they are

488

00:16:24,470 --> 00:16:22,160

hot is that the sky

489

00:16:26,790 --> 00:16:24,480

actually shows up as being cold if you

490

00:16:30,069 --> 00:16:26,800

do an experiment where you take a candle

491

00:16:33,030 --> 00:16:30,079

and you take a uh some ice

492

00:16:34,310 --> 00:16:33,040

and you do it against a background like

493

00:16:37,030 --> 00:16:34,320

this you see the candle looks

494

00:16:38,629 --> 00:16:37,040

uh hot and the ice looks cold but you

495

00:16:39,829 --> 00:16:38,639

think you then tilt the camera down so

496

00:16:42,870 --> 00:16:39,839

you're looking up

497

00:16:45,590 --> 00:16:42,880

like this here then both

498

00:16:47,189 --> 00:16:45,600

the candle and the ice look like they're

499

00:16:49,670 --> 00:16:47,199

hotter than the sky

500

00:16:51,110 --> 00:16:49,680

because the the sky is showing up as

501  
00:16:52,949 --> 00:16:51,120  
off-the-scale cold because it's not

502  
00:16:54,790 --> 00:16:52,959  
really radiating anything

503  
00:16:56,629 --> 00:16:54,800  
and the ice itself just shows up as

504  
00:16:58,790 --> 00:16:56,639  
about eight degrees fahrenheit

505  
00:17:01,749 --> 00:16:58,800  
so they were wrong about the

506  
00:17:04,870 --> 00:17:01,759  
impossibility of a control

507  
00:17:06,470 --> 00:17:04,880  
so what actually was it well

508  
00:17:07,909 --> 00:17:06,480  
if it was a plane we should be able to

509  
00:17:09,750 --> 00:17:07,919  
find the plane and we have enough

510  
00:17:10,390 --> 00:17:09,760  
information on this video that we can

511  
00:17:12,710 --> 00:17:10,400  
actually

512  
00:17:14,789 --> 00:17:12,720  
track it down we have the date and the

513  
00:17:15,750 --> 00:17:14,799

time and we have the latitude and

514

00:17:17,429 --> 00:17:15,760

longitude

515

00:17:19,510 --> 00:17:17,439

of the helicopter and we know which

516

00:17:22,710 --> 00:17:19,520

direction it's looking in because we can

517

00:17:26,309 --> 00:17:22,720

um we can match the video to to the

518

00:17:29,110 --> 00:17:26,319

uh the background

519

00:17:29,590 --> 00:17:29,120

so we looked in [planefinder.net](http://planefinder.net) this was

520

00:17:31,669 --> 00:17:29,600

you know

521

00:17:33,830 --> 00:17:31,679

several years ago before flight radio 24

522

00:17:35,990 --> 00:17:33,840

was recording things [planefinder.net](http://planefinder.net)

523

00:17:37,110 --> 00:17:36,000

and we found there was uh two planes

524

00:17:39,350 --> 00:17:37,120

that kind of fit

525

00:17:41,669 --> 00:17:39,360

fit the bill this one over here iberian

526  
00:17:42,789 --> 00:17:41,679  
6830 and this one over here uh i can't

527  
00:17:44,150 --> 00:17:42,799  
remember what it was but

528  
00:17:46,630 --> 00:17:44,160  
this wasn't the one this was actually

529  
00:17:50,070 --> 00:17:46,640  
the one here

530  
00:17:52,070 --> 00:17:50,080  
we took those planes and we

531  
00:17:54,150 --> 00:17:52,080  
brought them into google earth same as

532  
00:17:57,909 --> 00:17:54,160  
before

533  
00:17:58,870 --> 00:17:57,919  
and we plotted the tracks

534  
00:18:00,310 --> 00:17:58,880  
we moved the camera to where the

535  
00:18:02,150 --> 00:18:00,320  
helicopter was we overlaid the

536  
00:18:04,549 --> 00:18:02,160  
helicopter image and we

537  
00:18:05,750 --> 00:18:04,559  
looked to see where they crossed and

538  
00:18:08,390 --> 00:18:05,760

right here

539

00:18:10,950 --> 00:18:08,400

this green one actually was a match so

540

00:18:15,669 --> 00:18:10,960

we tracked down the actual plane

541

00:18:18,630 --> 00:18:15,679

uh we also took it into google earth

542

00:18:20,310 --> 00:18:18,640

and put in a model of a plane in the

543

00:18:22,950 --> 00:18:20,320

right spot

544

00:18:24,230 --> 00:18:22,960

and then moved the camera back to where

545

00:18:28,710 --> 00:18:24,240

the helicopter was and saw what that

546

00:18:30,789 --> 00:18:28,720

would look like

547

00:18:32,070 --> 00:18:30,799

and you can see it's in the right place

548

00:18:33,669 --> 00:18:32,080

but the image

549

00:18:35,510 --> 00:18:33,679

the black image is a lot bigger than the

550

00:18:36,390 --> 00:18:35,520

plane it actually is but so why is that

551  
00:18:40,150 --> 00:18:36,400  
why is that

552  
00:18:43,190 --> 00:18:40,160  
so much bigger the reason it's bigger

553  
00:18:43,590 --> 00:18:43,200  
is something that relates to the uh uh

554  
00:18:46,310 --> 00:18:43,600  
the

555  
00:18:47,190 --> 00:18:46,320  
navy videos which i'm coming to soon is

556  
00:18:50,150 --> 00:18:47,200  
that it's glare

557  
00:18:51,750 --> 00:18:50,160  
it's infrared glare and glare is

558  
00:18:53,990 --> 00:18:51,760  
different from lens flare glare

559  
00:18:55,669 --> 00:18:54,000  
is the stray light around a very bright

560  
00:18:56,150 --> 00:18:55,679  
light source like i say a flashlight for

561  
00:18:57,909 --> 00:18:56,160  
example

562  
00:18:59,430 --> 00:18:57,919  
it's the light around a flashlight it's

563  
00:19:02,789 --> 00:18:59,440

not the lens flare which is

564

00:19:04,870 --> 00:19:02,799

something else now uh

565

00:19:05,830 --> 00:19:04,880

infrared glare is essentially the same

566

00:19:08,870 --> 00:19:05,840

as

567

00:19:09,430 --> 00:19:08,880

uh glare around a light it's spill over

568

00:19:11,029 --> 00:19:09,440

light

569

00:19:12,950 --> 00:19:11,039

around an object now it's usually

570

00:19:14,870 --> 00:19:12,960

several orders of magnitude

571

00:19:16,950 --> 00:19:14,880

less bright than the actual light itself

572

00:19:18,710 --> 00:19:16,960

so even though there's the exact same

573

00:19:20,470 --> 00:19:18,720

glare around my finger here

574

00:19:21,990 --> 00:19:20,480

you can't see it because it's so much

575

00:19:23,830 --> 00:19:22,000

dimmer than the actual finger

576

00:19:25,830 --> 00:19:23,840

but with a bright light it's bright

577

00:19:29,029 --> 00:19:25,840

enough that you can actually see it

578

00:19:29,990 --> 00:19:29,039

and uh i did an experiment to

579

00:19:33,669 --> 00:19:30,000

demonstrate this

580

00:19:34,310 --> 00:19:33,679

i put four candles uh the same spacing

581

00:19:36,870 --> 00:19:34,320

as the

582

00:19:38,310 --> 00:19:36,880

engines of the plane and then i took

583

00:19:39,590 --> 00:19:38,320

video of it from far away and you see

584

00:19:41,270 --> 00:19:39,600

from far away

585

00:19:42,950 --> 00:19:41,280

you get this kind of blob shape thing

586

00:19:45,430 --> 00:19:42,960

which is similar to what you saw

587

00:19:47,110 --> 00:19:45,440

but if you start moving closer towards

588

00:19:48,310 --> 00:19:47,120

these four candles they gradually

589

00:19:52,230 --> 00:19:48,320

resolve

590

00:19:53,029 --> 00:19:52,240

into four individual candles so that

591

00:19:55,990 --> 00:19:53,039

shows that

592

00:19:58,470 --> 00:19:56,000

when something is far away uh it

593

00:20:01,029 --> 00:19:58,480

actually looks

594

00:20:02,310 --> 00:20:01,039

much bigger in in the infrared glare so

595

00:20:03,909 --> 00:20:02,320

we've got this big infrared glare

596

00:20:08,789 --> 00:20:03,919

covering the four candles same thing

597

00:20:12,470 --> 00:20:11,270

okay so it was it was a 100 solved it

598

00:20:14,230 --> 00:20:12,480

was just a plane it was leaving a

599

00:20:14,950 --> 00:20:14,240

control so what lessons can we learn

600

00:20:17,590 --> 00:20:14,960

from this

601  
00:20:19,110 --> 00:20:17,600  
uh experts make mistakes even if you

602  
00:20:20,630 --> 00:20:19,120  
have lots and lots of experts

603  
00:20:22,390 --> 00:20:20,640  
military pilots make mistake the

604  
00:20:24,390 --> 00:20:22,400  
helicopter pilots were the accomplished

605  
00:20:26,070 --> 00:20:24,400  
military military pilots lauded

606  
00:20:27,990 --> 00:20:26,080  
lauded by the huffington post

607  
00:20:30,230 --> 00:20:28,000  
perspective can be confusing again

608  
00:20:31,510 --> 00:20:30,240  
infrared glare can hide a plane and

609  
00:20:32,870 --> 00:20:31,520  
that's a very important thing because it

610  
00:20:35,590 --> 00:20:32,880  
relates to the uh

611  
00:20:36,950 --> 00:20:35,600  
the the u.s navy videos radio doesn't

612  
00:20:38,789 --> 00:20:36,960  
help if you're looking in the wrong

613  
00:20:41,909 --> 00:20:38,799

direction the wrong location

614

00:20:42,390 --> 00:20:41,919

if it's only uh if you think the object

615

00:20:44,390 --> 00:20:42,400

is

616

00:20:46,070 --> 00:20:44,400

20 miles away but it's actually 60 miles

617

00:20:48,630 --> 00:20:46,080

away then you're not going to find it

618

00:20:50,470 --> 00:20:48,640

and the same thing with the radio uh the

619

00:20:51,669 --> 00:20:50,480

radio if they're on a different

620

00:20:53,669 --> 00:20:51,679

area they're going to have a different

621

00:20:56,950 --> 00:20:53,679

radio frequency and so hailing them on

622

00:20:58,710 --> 00:20:56,960

my common frequency isn't going to work

623

00:21:01,029 --> 00:20:58,720

being wrong for years does not make you

624

00:21:03,270 --> 00:21:01,039

right they spent two years on this they

625

00:21:03,590 --> 00:21:03,280

got it wrong and they released it and it

626  
00:21:05,750 --> 00:21:03,600  
was

627  
00:21:07,590 --> 00:21:05,760  
disproven straight away which brings to

628  
00:21:08,789 --> 00:21:07,600  
the last point which is uh ask the

629  
00:21:11,590 --> 00:21:08,799  
internet

630  
00:21:12,630 --> 00:21:11,600  
uh you shouldn't have just this room of

631  
00:21:14,710 --> 00:21:12,640  
experts

632  
00:21:16,149 --> 00:21:14,720  
there's a huge array of talent out there

633  
00:21:16,710 --> 00:21:16,159  
lots of people are interested in this

634  
00:21:19,430 --> 00:21:16,720  
stuff

635  
00:21:20,630 --> 00:21:19,440  
and if this video had been released two

636  
00:21:23,029 --> 00:21:20,640  
years earlier

637  
00:21:24,950 --> 00:21:23,039  
than it was it would have been solved

638  
00:21:25,510 --> 00:21:24,960

two years earlier than it actually was

639

00:21:27,510 --> 00:21:25,520

solved

640

00:21:29,270 --> 00:21:27,520

instead they spent two years all these

641

00:21:30,950 --> 00:21:29,280

guys wasting their time

642

00:21:33,190 --> 00:21:30,960

and then they released it when it was

643

00:21:35,669 --> 00:21:33,200

solved in a week

644

00:21:36,310 --> 00:21:35,679

okay let's get to the us navy videos

645

00:21:38,310 --> 00:21:36,320

fleur one

646

00:21:39,590 --> 00:21:38,320

gimbal and go fast gonna start with

647

00:21:42,549 --> 00:21:39,600

flair one

648

00:21:45,190 --> 00:21:42,559

floor one was filmed in 2004. important

649

00:21:48,149 --> 00:21:45,200

thing to note nobody saw it by eye

650

00:21:48,630 --> 00:21:48,159

uh it shows a infrared glare on the

651  
00:21:50,710 --> 00:21:48,640  
camera

652  
00:21:53,190 --> 00:21:50,720  
and then an indistinct blob and it kind

653  
00:21:54,390 --> 00:21:53,200  
of changes camera or loss and then

654  
00:21:56,310 --> 00:21:54,400  
it looks like it's making some sudden

655  
00:21:57,590 --> 00:21:56,320  
moves and these sort of moves generally

656  
00:21:59,669 --> 00:21:57,600  
coincide with camera

657  
00:22:02,070 --> 00:21:59,679  
changes so the question is is the object

658  
00:22:03,830 --> 00:22:02,080  
moving or is the camera moving

659  
00:22:05,110 --> 00:22:03,840  
and people who think the object is

660  
00:22:07,110 --> 00:22:05,120  
moving claim that it's moving with

661  
00:22:08,710 --> 00:22:07,120  
incredible g-forces incredibly high

662  
00:22:10,950 --> 00:22:08,720  
acceleration rates

663  
00:22:12,470 --> 00:22:10,960

which it would actually be if these were

664

00:22:14,470 --> 00:22:12,480

actual real movements i think it comes

665

00:22:16,390 --> 00:22:14,480

out as something like 70 g's

666

00:22:17,590 --> 00:22:16,400

which is way way in advance of any

667

00:22:20,310 --> 00:22:17,600

aircraft that we have

668

00:22:21,830 --> 00:22:20,320

currently they top out around like 10

669

00:22:25,350 --> 00:22:21,840

tops i think

670

00:22:32,390 --> 00:22:30,549

flow one is it small or far away um

671

00:22:34,630 --> 00:22:32,400

this is you know the big question with

672

00:22:36,789 --> 00:22:34,640

ufos is it a small object that is close

673

00:22:37,669 --> 00:22:36,799

to the camera or it is a larger object

674

00:22:39,510 --> 00:22:37,679

that is

675

00:22:40,789 --> 00:22:39,520

uh far away we can actually do some math

676  
00:22:44,070 --> 00:22:40,799  
here

677  
00:22:46,230 --> 00:22:44,080  
we can see that it if we

678  
00:22:48,149 --> 00:22:46,240  
chop out the image itself it takes 14 of

679  
00:22:51,110 --> 00:22:48,159  
its own sizes to cross over the field of

680  
00:22:53,390 --> 00:22:51,120  
view we know the field of view is 0.35

681  
00:22:55,430 --> 00:22:53,400  
degrees we can divide that by 14 to get

682  
00:22:57,669 --> 00:22:55,440  
0.025 degrees

683  
00:22:59,909 --> 00:22:57,679  
we can then do a little bit more math to

684  
00:23:03,590 --> 00:22:59,919  
figure out what's actually going on here

685  
00:23:06,549 --> 00:23:03,600  
the size of something in an image

686  
00:23:07,990 --> 00:23:06,559  
which i know from my 3d 3d programming

687  
00:23:10,630 --> 00:23:08,000  
is the distance multiplied

688  
00:23:12,230 --> 00:23:10,640

by the tangent of the angle it's

689

00:23:13,909 --> 00:23:12,240

actually two times uh the tangent of

690

00:23:16,070 --> 00:23:13,919

half the angle but for our purpose is

691

00:23:19,190 --> 00:23:16,080

this works exactly the same

692

00:23:20,710 --> 00:23:19,200

two times the tangent of 0.25 or

693

00:23:23,430 --> 00:23:20,720

uh just the distance times angle in

694

00:23:25,750 --> 00:23:23,440

radians if you want to get technical

695

00:23:27,430 --> 00:23:25,760

for small angles so the size in feet is

696

00:23:28,070 --> 00:23:27,440

the distance in miles times the number

697

00:23:30,789 --> 00:23:28,080

of feet

698

00:23:32,310 --> 00:23:30,799

in a mile sorry to use feet for the

699

00:23:35,350 --> 00:23:32,320

canadian audience here but

700

00:23:37,510 --> 00:23:35,360

uh i'm in america multiplied by the

701  
00:23:39,669 --> 00:23:37,520  
tangent of 0.25

702  
00:23:41,110 --> 00:23:39,679  
so that gives a nice round estimate of

703  
00:23:42,789 --> 00:23:41,120  
the size in feet of the object

704  
00:23:44,789 --> 00:23:42,799  
is just simply the distance in miles

705  
00:23:46,149 --> 00:23:44,799  
multiplied by 2.3

706  
00:23:48,310 --> 00:23:46,159  
which is nice and straightforward

707  
00:23:50,710 --> 00:23:48,320  
because we can use that to get some very

708  
00:23:53,029 --> 00:23:50,720  
rough estimates if it was a mile away

709  
00:23:53,990 --> 00:23:53,039  
then this object would only be 2.3 feet

710  
00:23:55,990 --> 00:23:54,000  
in um

711  
00:23:57,510 --> 00:23:56,000  
in width if it was 10 miles away

712  
00:23:57,990 --> 00:23:57,520  
obviously it would be 10 times that 23

713  
00:24:01,269 --> 00:23:58,000

feet

714

00:24:02,230 --> 00:24:01,279

getting into the range of actual

715

00:24:04,230 --> 00:24:02,240

aircraft that

716

00:24:06,950 --> 00:24:04,240

could be could be the size of a fighter

717

00:24:08,789 --> 00:24:06,960

jet so one possibility is that this is a

718

00:24:11,430 --> 00:24:08,799

out-of-focus fighter jet that

719

00:24:13,510 --> 00:24:11,440

is 20 miles away it's quite a long way

720

00:24:15,029 --> 00:24:13,520

to see something 20 miles

721

00:24:17,990 --> 00:24:15,039

or it could be something like a boeing

722

00:24:19,590 --> 00:24:18,000

737 that is 50 miles away

723

00:24:23,590 --> 00:24:19,600

uh that's another possibility we don't

724

00:24:28,630 --> 00:24:27,029

as well as being small or far away we uh

725

00:24:30,870 --> 00:24:28,640

is it small and low or is it big and

726  
00:24:31,830 --> 00:24:30,880  
high we've got another number here which

727  
00:24:34,549 --> 00:24:31,840  
is this

728  
00:24:35,750 --> 00:24:34,559  
five degrees here which is the angle

729  
00:24:38,950 --> 00:24:35,760  
that the camera is looking

730  
00:24:40,470 --> 00:24:38,960  
up at and uh if we're looking up into

731  
00:24:41,909 --> 00:24:40,480  
the sky there's only so high our plane

732  
00:24:43,430 --> 00:24:41,919  
could be a plane is not going to be at a

733  
00:24:45,110 --> 00:24:43,440  
hundred thousand feet so it kind of

734  
00:24:46,789 --> 00:24:45,120  
gives us some more limits as to what we

735  
00:24:49,110 --> 00:24:46,799  
can actually calculate

736  
00:24:50,630 --> 00:24:49,120  
if uh we know the camera's at twenty

737  
00:24:51,350 --> 00:24:50,640  
thousand feet we have that number down

738  
00:24:52,630 --> 00:24:51,360

here

739

00:24:54,710 --> 00:24:52,640

and we know we're looking at five

740

00:24:55,990 --> 00:24:54,720

degrees so the object is above the

741

00:24:58,950 --> 00:24:56,000

twenty thousand feet by

742

00:25:01,669 --> 00:24:58,960

some mass again distance in miles times

743

00:25:03,750 --> 00:25:01,679

5280 times sine of five degrees

744

00:25:05,669 --> 00:25:03,760

or 20 000 plus the difference in miles

745

00:25:08,549 --> 00:25:05,679

size 460.

746

00:25:10,390 --> 00:25:08,559

nice round uh estimate so again we can

747

00:25:12,070 --> 00:25:10,400

figure out the various uh things that it

748

00:25:13,750 --> 00:25:12,080

could be so

749

00:25:15,350 --> 00:25:13,760

quite all quite reasonable numbers less

750

00:25:17,430 --> 00:25:15,360

than 40 000 feet which is like the

751  
00:25:19,430 --> 00:25:17,440  
service ceiling for uh some aircraft but

752  
00:25:21,990 --> 00:25:19,440  
some aircraft can go higher

753  
00:25:23,669 --> 00:25:22,000  
so could it be a mid-sized jet like this

754  
00:25:26,789 --> 00:25:23,679  
one for example a 737

755  
00:25:29,430 --> 00:25:26,799  
that's uh 40 to 50 miles away

756  
00:25:30,870 --> 00:25:29,440  
well it's black in the video in the in

757  
00:25:33,510 --> 00:25:30,880  
the visible light mode

758  
00:25:35,830 --> 00:25:33,520  
and uh it's it's very blurry and out of

759  
00:25:37,430 --> 00:25:35,840  
focus and it's very low resolution

760  
00:25:38,950 --> 00:25:37,440  
and it's got a lot of noise in the video

761  
00:25:40,310 --> 00:25:38,960  
a lot of perspective compression

762  
00:25:43,750 --> 00:25:40,320  
artifacts

763  
00:25:46,149 --> 00:25:43,760

uh and it's at a funny angle so perhaps

764

00:25:47,190 --> 00:25:46,159

yeah if it's at this angle perhaps it

765

00:25:49,110 --> 00:25:47,200

could actually be

766

00:25:50,630 --> 00:25:49,120

a plane look kind of similar and when it

767

00:25:51,430 --> 00:25:50,640

rotates a bit yeah it's just a plane a

768

00:25:52,789 --> 00:25:51,440

different shape

769

00:25:54,310 --> 00:25:52,799

this plane is actually facing the wrong

770

00:25:55,669 --> 00:25:54,320

way for the motion of travel but it's

771

00:25:57,430 --> 00:25:55,679

the same basic idea

772

00:25:59,110 --> 00:25:57,440

you just take something like a plane and

773

00:26:00,710 --> 00:25:59,120

you blur it enough and it's uh

774

00:26:03,830 --> 00:26:00,720

it will look like this it could actually

775

00:26:07,750 --> 00:26:05,750

so uh the big question about this one is

776

00:26:08,549 --> 00:26:07,760

if it's a jet why does it accelerate so

777

00:26:11,110 --> 00:26:08,559

fast

778

00:26:12,070 --> 00:26:11,120

it actually leaves leaves the frame and

779

00:26:13,750 --> 00:26:12,080

you can see it here i've kind of

780

00:26:16,470 --> 00:26:13,760

corrected for the uh

781

00:26:17,350 --> 00:26:16,480

the zoom change in the middle here uh it

782

00:26:19,669 --> 00:26:17,360

leaves the frame

783

00:26:22,070 --> 00:26:19,679

in three quarters of a second three

784

00:26:24,149 --> 00:26:22,080

quarters of a second which means

785

00:26:25,110 --> 00:26:24,159

as we know the width of the frame in

786

00:26:28,630 --> 00:26:25,120

degrees

787

00:26:31,190 --> 00:26:28,640

it's going at 4.3 seconds per degree

788

00:26:32,789 --> 00:26:31,200

which coincidentally is exactly the same

789

00:26:35,830 --> 00:26:32,799

rate that the camera was panning

790

00:26:37,190 --> 00:26:35,840

to the left now we know the camera is

791

00:26:37,590 --> 00:26:37,200

panning to the left because this number

792

00:26:41,110 --> 00:26:37,600

here

793

00:26:44,390 --> 00:26:41,120

a little hard to read moves from

794

00:26:47,430 --> 00:26:44,400

one degree left 44 seconds

795

00:26:50,390 --> 00:26:47,440

to 8 degrees left at

796

00:26:51,430 --> 00:26:50,400

1 minute 12 seconds so it's moved 70

797

00:26:53,830 --> 00:26:51,440

degrees

798

00:26:55,110 --> 00:26:53,840

smoothly panning from left to right from

799

00:26:57,750 --> 00:26:55,120

right to left

800

00:26:59,750 --> 00:26:57,760

uh in about 30 seconds which is about

801  
00:27:02,230 --> 00:26:59,760  
4.2 seconds per degree

802  
00:27:04,070 --> 00:27:02,240  
and that was coincidentally the exact

803  
00:27:06,549 --> 00:27:04,080  
rate that we calculated

804  
00:27:08,710 --> 00:27:06,559  
the objects leaving the screen

805  
00:27:11,430 --> 00:27:08,720  
coincidence i think not

806  
00:27:12,470 --> 00:27:11,440  
uh what do i think happened at the end

807  
00:27:14,149 --> 00:27:12,480  
of this video

808  
00:27:16,390 --> 00:27:14,159  
i think that the camera was following a

809  
00:27:17,909 --> 00:27:16,400  
plane probably about 40 miles away it's

810  
00:27:19,510 --> 00:27:17,919  
in level flight it's not doing anything

811  
00:27:22,070 --> 00:27:19,520  
special

812  
00:27:23,909 --> 00:27:22,080  
the camera is slowly panning to the left

813  
00:27:25,269 --> 00:27:23,919

because it wants to follow the plane the

814

00:27:26,950 --> 00:27:25,279

plane is just kind of moving off

815

00:27:29,830 --> 00:27:26,960

in that general direction it's moving

816

00:27:31,350 --> 00:27:29,840

very slowly not nothing special

817

00:27:33,510 --> 00:27:31,360

but then there's all these rapid camera

818

00:27:34,870 --> 00:27:33,520

changes the the camera flips between

819

00:27:36,230 --> 00:27:34,880

different modes it flips between

820

00:27:38,149 --> 00:27:36,240

different magnifications and at some

821

00:27:39,990 --> 00:27:38,159

point it actually loses lock

822

00:27:42,310 --> 00:27:40,000

on the object and it does this a couple

823

00:27:44,070 --> 00:27:42,320

of times uh through the video it loses

824

00:27:46,549 --> 00:27:44,080

lock there you can see these bars

825

00:27:48,789 --> 00:27:46,559

widen and then it regains the lock on

826

00:27:49,590 --> 00:27:48,799

the on the object and carries on but the

827

00:27:51,350 --> 00:27:49,600

last time it

828

00:27:53,269 --> 00:27:51,360

doesn't manage it couldn't quite manage

829

00:27:55,590 --> 00:27:53,279

with all these rapid camera changes

830

00:27:56,470 --> 00:27:55,600

and so it stops tracking and the object

831

00:27:58,549 --> 00:27:56,480

just

832

00:27:59,909 --> 00:27:58,559

goes off to the side of the screen and

833

00:28:01,590 --> 00:27:59,919

that's all that happened it doesn't seem

834

00:28:04,389 --> 00:28:01,600

like it's really

835

00:28:04,870 --> 00:28:04,399

that complicated and yet i have to fight

836

00:28:06,389 --> 00:28:04,880

to

837

00:28:09,029 --> 00:28:06,399

get this explanation across because

838

00:28:11,029 --> 00:28:09,039

people prefer the other explanation

839

00:28:14,310 --> 00:28:11,039

the plane i think is just in level

840

00:28:16,710 --> 00:28:14,320

flight not changing its velocity

841

00:28:18,230 --> 00:28:16,720

and it's not amazing all right moving

842

00:28:20,389 --> 00:28:18,240

quickly on to

843

00:28:21,430 --> 00:28:20,399

go fast we will go fast to the go fast

844

00:28:27,029 --> 00:28:21,440

video

845

00:28:33,269 --> 00:28:27,039

was filmed

846

00:28:34,870 --> 00:28:33,279

in 2014. it looks like it's going very

847

00:28:35,669 --> 00:28:34,880

fast it looks like it's low close to the

848

00:28:37,269 --> 00:28:35,679

water

849

00:28:38,470 --> 00:28:37,279

and it's been described as you know

850

00:28:39,590 --> 00:28:38,480

traveling at two-thirds the speed of

851  
00:28:41,990 --> 00:28:39,600  
sound hauling ass

852  
00:28:43,430 --> 00:28:42,000  
is it no yeah we can actually use some

853  
00:28:44,710 --> 00:28:43,440  
of the information on the screen to

854  
00:28:46,870 --> 00:28:44,720  
figure this out

855  
00:28:48,630 --> 00:28:46,880  
we know the altitude we know the speed

856  
00:28:51,669 --> 00:28:48,640  
of the jet

857  
00:28:52,549 --> 00:28:51,679  
uh we also dealt with 25 000 feet above

858  
00:28:55,269 --> 00:28:52,559  
the water

859  
00:28:55,750 --> 00:28:55,279  
we know we're looking down negative

860  
00:28:57,750 --> 00:28:55,760  
angle

861  
00:28:59,909 --> 00:28:57,760  
26 degrees and we know that he actually

862  
00:29:01,029 --> 00:28:59,919  
gets a radar lock on the object it's 4.4

863  
00:29:02,950 --> 00:29:01,039

miles away

864

00:29:04,389 --> 00:29:02,960

we can do some very very simple uh

865

00:29:05,990 --> 00:29:04,399

trigonometry with us

866

00:29:07,510 --> 00:29:06,000

uh to figure out how much the plane is

867

00:29:09,430 --> 00:29:07,520

below uh how much the

868

00:29:10,630 --> 00:29:09,440

how much how much below the plane is

869

00:29:13,830 --> 00:29:10,640

this object how much

870

00:29:14,630 --> 00:29:13,840

down looking down 26 degrees 4.4 miles

871

00:29:17,269 --> 00:29:14,640

away

872

00:29:17,909 --> 00:29:17,279

that's the hypotenuse of the triangle so

873

00:29:19,909 --> 00:29:17,919

we use

874

00:29:21,029 --> 00:29:19,919

uh we just work out what the opposite

875

00:29:24,789 --> 00:29:21,039

side of the it

876

00:29:27,590 --> 00:29:24,799

is which is uh 4.4 times the sine of 26

877

00:29:30,389 --> 00:29:27,600

or 1.92 nautical miles down

878

00:29:32,950 --> 00:29:30,399

about 12 000 feet and which means the

879

00:29:35,750 --> 00:29:32,960

object is at 13 000 feet

880

00:29:37,669 --> 00:29:35,760

which means it's halfway to the ocean

881

00:29:39,430 --> 00:29:37,679

and not very high at all so they were

882

00:29:41,990 --> 00:29:39,440

wrong about that

883

00:29:43,590 --> 00:29:42,000

also if we know all these angles we can

884

00:29:45,510 --> 00:29:43,600

actually figure out that it's

885

00:29:47,110 --> 00:29:45,520

how fast it's going because we know the

886

00:29:48,870 --> 00:29:47,120

angle to the left that it is at the

887

00:29:50,549 --> 00:29:48,880

start the angle it is to the left at the

888

00:29:52,630 --> 00:29:50,559

end we know the jets banking a bit so it

889

00:29:54,070 --> 00:29:52,640

follows this curved path

890

00:29:55,669 --> 00:29:54,080

and we know the range at the start and

891

00:29:57,190 --> 00:29:55,679

we know the range at the end so we can

892

00:29:58,789 --> 00:29:57,200

figure out where the object is

893

00:30:00,789 --> 00:29:58,799

at the start and where the object is at

894

00:30:01,750 --> 00:30:00,799

the end turns out the jet moves this

895

00:30:05,669 --> 00:30:01,760

much

896

00:30:07,350 --> 00:30:05,679

object really isn't moving very fast at

897

00:30:10,070 --> 00:30:07,360

all in fact it's moving around

898

00:30:11,350 --> 00:30:10,080

under under 40 knots which is about wind

899

00:30:12,789 --> 00:30:11,360

speed

900

00:30:14,389 --> 00:30:12,799

we know it's not even very big we can

901  
00:30:15,750 --> 00:30:14,399  
figure out how big it is it's around six

902  
00:30:17,750 --> 00:30:15,760  
feet

903  
00:30:20,070 --> 00:30:17,760  
so what type of flying objects uh moves

904  
00:30:22,230 --> 00:30:20,080  
around wind speed is a few feet wide

905  
00:30:24,389 --> 00:30:22,240  
is roughly spherical looks like a dot

906  
00:30:28,549 --> 00:30:24,399  
has no heat source it just was white

907  
00:30:31,590 --> 00:30:28,559  
uh in in black hot uh shows up on radar

908  
00:30:32,389 --> 00:30:31,600  
and what could that be it is in fact a

909  
00:30:34,149 --> 00:30:32,399  
weather balloon

910  
00:30:35,750 --> 00:30:34,159  
most simplest explanation is this is

911  
00:30:38,389 --> 00:30:35,760  
just a weather balloon drifting in the

912  
00:30:41,430 --> 00:30:38,399  
wind with a radar reflector

913  
00:30:45,190 --> 00:30:41,440

on the balloon and uh that

914

00:30:47,830 --> 00:30:45,200

i think is probably all there was to it

915

00:30:49,190 --> 00:30:47,840

uh the uh the extra thing that you need

916

00:30:49,990 --> 00:30:49,200

as well as it being a weather weather

917

00:30:51,669 --> 00:30:50,000

balloon is

918

00:30:52,950 --> 00:30:51,679

to realize that what you're seeing isn't

919

00:30:54,630 --> 00:30:52,960

the motion of the balloon it's the

920

00:30:57,029 --> 00:30:54,640

motion of the parallax

921

00:30:58,789 --> 00:30:57,039

it's a balloon similar type of thing the

922

00:31:00,470 --> 00:30:58,799

balloon isn't really moving it's just

923

00:31:01,830 --> 00:31:00,480

it's just floating in the air but it's

924

00:31:03,830 --> 00:31:01,840

being filled from a helicopter which is

925

00:31:05,350 --> 00:31:03,840

moving very fast past the balloon and

926  
00:31:06,710 --> 00:31:05,360  
the camera is tracking

927  
00:31:08,789 --> 00:31:06,720  
this balloon so it gives you this

928  
00:31:11,350 --> 00:31:08,799  
illusion that this object

929  
00:31:12,389 --> 00:31:11,360  
is moving very very fast when it really

930  
00:31:13,990 --> 00:31:12,399  
isn't

931  
00:31:15,909 --> 00:31:14,000  
so i think that's all we're seeing with

932  
00:31:19,110 --> 00:31:15,919  
the go fast

933  
00:31:19,830 --> 00:31:19,120  
video not not low and fast it is high

934  
00:31:23,509 --> 00:31:19,840  
and slow

935  
00:31:25,350 --> 00:31:23,519  
probably a blue okay last video is the

936  
00:31:29,830 --> 00:31:25,360  
gimbal video

937  
00:31:32,710 --> 00:31:29,840  
day as the go fast video

938  
00:31:33,990 --> 00:31:32,720

back in 2015 and it shows a weird source

939

00:31:36,389 --> 00:31:34,000

of shape

940

00:31:37,509 --> 00:31:36,399

and it looks like it's flying rapidly

941

00:31:39,590 --> 00:31:37,519

over the clouds

942

00:31:40,789 --> 00:31:39,600

at some point it slows down it rotates

943

00:31:43,029 --> 00:31:40,799

on its ends and

944

00:31:44,470 --> 00:31:43,039

it stops and this is by far the most

945

00:31:47,590 --> 00:31:44,480

challenging video to explain

946

00:31:49,509 --> 00:31:47,600

so i shall try and get it in the next 10

947

00:31:51,909 --> 00:31:49,519

minutes

948

00:31:53,750 --> 00:31:51,919

uh is it just a glare this was my

949

00:31:54,950 --> 00:31:53,760

initial idea that i thought it was just

950

00:31:57,669 --> 00:31:54,960

a glare someone

951  
00:31:58,470 --> 00:31:57,679  
showed me the video and i think the same

952  
00:32:00,630 --> 00:31:58,480  
day

953  
00:32:02,470 --> 00:32:00,640  
i i suggested it might actually be a

954  
00:32:03,509 --> 00:32:02,480  
glare it might actually be in red glare

955  
00:32:05,029 --> 00:32:03,519  
and of course you know the reason was

956  
00:32:05,269 --> 00:32:05,039  
i've seen this type of thing before in

957  
00:32:14,230 --> 00:32:05,279  
the

958  
00:32:17,509 --> 00:32:14,240  
um so yeah yeah it could be a glare

959  
00:32:19,590 --> 00:32:17,519  
but it's complicated if it's a glare

960  
00:32:20,870 --> 00:32:19,600  
like why is it shaped like that uh why

961  
00:32:22,549 --> 00:32:20,880  
can't you see the plane well we can't

962  
00:32:23,590 --> 00:32:22,559  
know that it's hidden behind a large

963  
00:32:25,350 --> 00:32:23,600

color

964

00:32:26,630 --> 00:32:25,360

why does it rotate what's going on here

965

00:32:28,710 --> 00:32:26,640

why is it rotating

966

00:32:30,230 --> 00:32:28,720

and why does it slow down and stop and

967

00:32:32,149 --> 00:32:30,240

at this point when it rotates

968

00:32:33,269 --> 00:32:32,159

it was flying fast over the clouds but

969

00:32:35,590 --> 00:32:33,279

now it's it's

970

00:32:37,990 --> 00:32:35,600

uh it's slowed down and stopped and why

971

00:32:40,230 --> 00:32:38,000

through a cold aura around it here

972

00:32:42,230 --> 00:32:40,240

it's hot it's black hot but around it is

973

00:32:43,669 --> 00:32:42,240

white it's kind of weird

974

00:32:45,110 --> 00:32:43,679

and yeah are we just doing mental

975

00:32:45,590 --> 00:32:45,120

gymnastics here this is something

976  
00:32:48,389 --> 00:32:45,600  
actually

977  
00:32:49,990 --> 00:32:48,399  
joe rogan accused me of he said i'm just

978  
00:32:51,750 --> 00:32:50,000  
doing mental gymnastics

979  
00:32:53,669 --> 00:32:51,760  
trying to explain these videos and it's

980  
00:32:55,830 --> 00:32:53,679  
much simpler if we just go with the

981  
00:32:57,590 --> 00:32:55,840  
its anti-gravity explanation because

982  
00:32:59,750 --> 00:32:57,600  
that just explains everything

983  
00:33:00,950 --> 00:32:59,760  
anti-gravity also makes the air cold

984  
00:33:02,789 --> 00:33:00,960  
apparently

985  
00:33:04,630 --> 00:33:02,799  
all right let's do that cold thing first

986  
00:33:07,110 --> 00:33:04,640  
cold aura infrared

987  
00:33:09,110 --> 00:33:07,120  
uh it's inverted so that black is hot

988  
00:33:10,950 --> 00:33:09,120

and that means white is cold is this a

989

00:33:11,830 --> 00:33:10,960

pocket of cold air defying all known

990

00:33:14,870 --> 00:33:11,840

physics

991

00:33:16,789 --> 00:33:14,880

nope it is just in fact um

992

00:33:18,950 --> 00:33:16,799

something you see in infrared videos

993

00:33:19,909 --> 00:33:18,960

here's a hot jet engine here's white

994

00:33:21,269 --> 00:33:19,919

around it

995

00:33:23,269 --> 00:33:21,279

just something that shows up in infrared

996

00:33:26,710 --> 00:33:23,279

videos it's called an unsharp mask

997

00:33:29,590 --> 00:33:26,720

they use it to increase contrast

998

00:33:30,389 --> 00:33:29,600

uh why does it slow down and stop and

999

00:33:32,149 --> 00:33:30,399

stop well

1000

00:33:34,230 --> 00:33:32,159

the reason it's doing that i think again

1001  
00:33:35,110 --> 00:33:34,240  
is parallax you know we saw the parallax

1002  
00:33:37,750 --> 00:33:35,120  
with the balloon

1003  
00:33:39,029 --> 00:33:37,760  
and here the the jet starts out flying

1004  
00:33:40,630 --> 00:33:39,039  
kind of at an angle

1005  
00:33:42,070 --> 00:33:40,640  
to the object so he's kind of flying

1006  
00:33:44,789 --> 00:33:42,080  
with the object off to one side

1007  
00:33:45,750 --> 00:33:44,799  
it turns around and eventually ends up

1008  
00:33:47,509 --> 00:33:45,760  
facing it

1009  
00:33:48,789 --> 00:33:47,519  
so we can kind of simulate that here and

1010  
00:33:49,430 --> 00:33:48,799  
i've done that with the jet starting

1011  
00:33:52,470 --> 00:33:49,440  
down here

1012  
00:33:54,549 --> 00:33:52,480  
it flies up and around and eventually

1013  
00:33:57,430 --> 00:33:54,559

it's facing towards the object which is

1014

00:33:59,029 --> 00:33:57,440

over here and the clouds over here move

1015

00:33:59,830 --> 00:33:59,039

as you would expect to start out moving

1016

00:34:02,710 --> 00:33:59,840

fast

1017

00:34:03,269 --> 00:34:02,720

time longer than you would think i would

1018

00:34:05,190 --> 00:34:03,279

i would

1019

00:34:06,710 --> 00:34:05,200

say which way it's confusing then it

1020

00:34:09,270 --> 00:34:06,720

slows down very rapidly

1021

00:34:11,030 --> 00:34:09,280

at the end and that explains why it's

1022

00:34:12,069 --> 00:34:11,040

why it slows down and stop just parallax

1023

00:34:17,430 --> 00:34:12,079

nothing particularly

1024

00:34:21,270 --> 00:34:20,550

why is the glare shaped the way the

1025

00:34:24,550 --> 00:34:21,280

glare is

1026

00:34:26,230 --> 00:34:24,560

um it's diffraction and focus uh the

1027

00:34:28,389 --> 00:34:26,240

shape of a glare is kind of defined

1028

00:34:29,270 --> 00:34:28,399

by how much the light spills around the

1029

00:34:31,270 --> 00:34:29,280

object

1030

00:34:33,270 --> 00:34:31,280

and if you a bit out of focus it will

1031

00:34:34,710 --> 00:34:33,280

spill more in in more directions just

1032

00:34:37,190 --> 00:34:34,720

from the lack of focus

1033

00:34:37,909 --> 00:34:37,200

but it also spills due to diffraction

1034

00:34:40,470 --> 00:34:37,919

effects

1035

00:34:41,669 --> 00:34:40,480

and this is why in in astronomy you see

1036

00:34:44,310 --> 00:34:41,679

these spikes

1037

00:34:46,069 --> 00:34:44,320

on uh on on starts the crash diffraction

1038

00:34:46,710 --> 00:34:46,079

effects from the cross that's in front

1039

00:34:50,310 --> 00:34:46,720

of the

1040

00:34:52,550 --> 00:34:50,320

reflectors

1041

00:34:55,030 --> 00:34:52,560

in the telescope uh so these diffraction

1042

00:34:57,109 --> 00:34:55,040

effects are quite a big thing so

1043

00:34:58,390 --> 00:34:57,119

i made this little video with this this

1044

00:35:00,390 --> 00:34:58,400

plane with

1045

00:35:01,829 --> 00:35:00,400

two jet engines attached to it which are

1046

00:35:03,270 --> 00:35:01,839

actually flashlights but they give the

1047

00:35:04,150 --> 00:35:03,280

same effect in that you only see the

1048

00:35:07,510 --> 00:35:04,160

glare when

1049

00:35:10,550 --> 00:35:07,520

the jet engines are facing towards you

1050

00:35:11,990 --> 00:35:10,560

and let me just start that so if i move

1051  
00:35:13,910 --> 00:35:12,000  
the camera back you'll see that a big

1052  
00:35:14,630 --> 00:35:13,920  
layer appears a big spiky glare in this

1053  
00:35:16,310 --> 00:35:14,640  
camera

1054  
00:35:17,750 --> 00:35:16,320  
it's kind of source of shapes i guess

1055  
00:35:19,510 --> 00:35:17,760  
but if i use this this camera

1056  
00:35:21,910 --> 00:35:19,520  
it gives a more sausage shaped glass

1057  
00:35:24,069 --> 00:35:21,920  
with a with these spikes on it

1058  
00:35:26,069 --> 00:35:24,079  
and you see when i rotate the camera the

1059  
00:35:28,470 --> 00:35:26,079  
background doesn't rotate in this image

1060  
00:35:29,990 --> 00:35:28,480  
but the glare does rotate so if the

1061  
00:35:33,589 --> 00:35:30,000  
camera was rotating it would

1062  
00:35:36,710 --> 00:35:33,599  
make make the glare rotate um

1063  
00:35:39,349 --> 00:35:36,720

and the diffraction thing if you touch

1064

00:35:40,069 --> 00:35:39,359

your camera with your finger and smear

1065

00:35:42,630 --> 00:35:40,079

it a little bit

1066

00:35:44,390 --> 00:35:42,640

it changes the shape of the glare and

1067

00:35:46,550 --> 00:35:44,400

what i've been told was that

1068

00:35:48,470 --> 00:35:46,560

these glares appear in these targeting

1069

00:35:50,710 --> 00:35:48,480

pods when people clean

1070

00:35:52,550 --> 00:35:50,720

the front window of the targeting plot

1071

00:35:53,990 --> 00:35:52,560

pod and you see here i'm rotating the

1072

00:35:59,030 --> 00:35:54,000

camera the glare's rotating but the

1073

00:36:01,270 --> 00:35:59,040

background is not rotating

1074

00:36:02,950 --> 00:36:01,280

uh but you know is the camera rotating

1075

00:36:04,630 --> 00:36:02,960

uh i think yes it is and we can tell

1076

00:36:07,270 --> 00:36:04,640

it's rotating because

1077

00:36:08,870 --> 00:36:07,280

uh we see these bands in the sky which

1078

00:36:10,790 --> 00:36:08,880

look like they're rotating

1079

00:36:12,069 --> 00:36:10,800

and uh this is something yeah i

1080

00:36:13,510 --> 00:36:12,079

encourage you to look at this yourself

1081

00:36:15,030 --> 00:36:13,520

and you probably can't see it in this

1082

00:36:16,790 --> 00:36:15,040

maybe in the smaller one but you can

1083

00:36:18,230 --> 00:36:16,800

actually see the entire sky rotating

1084

00:36:19,670 --> 00:36:18,240

which would only happen

1085

00:36:22,069 --> 00:36:19,680

independently of the horizon if the

1086

00:36:23,349 --> 00:36:22,079

camera was rotating why is it rotating

1087

00:36:24,550 --> 00:36:23,359

it's kind of complicated don't really

1088

00:36:26,230 --> 00:36:24,560

have time to get into it

1089

00:36:27,910 --> 00:36:26,240

the fine tracking of the image is done

1090

00:36:29,510 --> 00:36:27,920

with mirrors there's a

1091

00:36:31,349 --> 00:36:29,520

course tracking done with exterior

1092

00:36:32,470 --> 00:36:31,359

gimbals the two big gimbals you see on

1093

00:36:34,470 --> 00:36:32,480

the outside

1094

00:36:35,829 --> 00:36:34,480

two axis gimbals can't traverse zero

1095

00:36:38,950 --> 00:36:35,839

degrees when looking around

1096

00:36:41,109 --> 00:36:38,960

and i do a little uh demonstration of

1097

00:36:44,630 --> 00:36:41,119

that here when i traverse zero degrees

1098

00:36:46,550 --> 00:36:44,640

it goes up so i have to do a rotation of

1099

00:36:47,910 --> 00:36:46,560

the camera

1100

00:36:49,670 --> 00:36:47,920

quite a large rotation to actually

1101

00:36:52,630 --> 00:36:49,680

continue tracking

1102

00:36:54,310 --> 00:36:52,640

so it's complicated but it doesn't

1103

00:36:56,550 --> 00:36:54,320

require magic so if it doesn't require

1104

00:36:57,829 --> 00:36:56,560

magic it passes occam's razor we don't

1105

00:37:00,310 --> 00:36:57,839

have to add anything

1106

00:37:01,990 --> 00:37:00,320

and uh requiring mental gymnastics does

1107

00:37:03,750 --> 00:37:02,000

not qualify an explanation if the

1108

00:37:06,790 --> 00:37:03,760

explanation actually works

1109

00:37:08,390 --> 00:37:06,800

may be difficult but you can uh you can

1110

00:37:10,150 --> 00:37:08,400

make it work how do we convey it

1111

00:37:11,670 --> 00:37:10,160

how do i actually how do i get this

1112

00:37:13,510 --> 00:37:11,680

across keep it simple

1113

00:37:14,950 --> 00:37:13,520

not too simple don't don't hide away

1114

00:37:16,150 --> 00:37:14,960

from these complicated things like the

1115

00:37:18,470 --> 00:37:16,160

gimbal rotation

1116

00:37:20,150 --> 00:37:18,480

use visuals like i just did uh keep

1117

00:37:22,550 --> 00:37:20,160

refining the explanation if people don't

1118

00:37:25,430 --> 00:37:22,560

get it ask the internet and incorporate

1119

00:37:27,030 --> 00:37:25,440

new ideas and information because your

1120

00:37:28,069 --> 00:37:27,040

ideas will change and you need to be

1121

00:37:30,710 --> 00:37:28,079

flexible

1122

00:37:33,109 --> 00:37:30,720

and don't give up you will uh you will

1123

00:37:35,190 --> 00:37:33,119

get through to people if you keep trying

1124

00:37:36,950 --> 00:37:35,200

all right well thank you very much and

1125

00:37:38,790 --> 00:37:36,960

uh if we have time i guess i can take

1126  
00:37:40,550 --> 00:37:38,800  
questions

1127  
00:37:42,310 --> 00:37:40,560  
yeah no that was good with lots of time

1128  
00:37:45,430 --> 00:37:42,320  
for questions

1129  
00:37:47,750 --> 00:37:45,440  
um let me see i was looking for any

1130  
00:37:49,990 --> 00:37:47,760  
hands up

1131  
00:37:52,310 --> 00:37:50,000  
and the usual thing is if nobody asks

1132  
00:37:55,349 --> 00:37:52,320  
questions i have to ask something

1133  
00:37:59,030 --> 00:37:55,359  
to set the bar low all right

1134  
00:37:59,510 --> 00:37:59,040  
um we did get a there is a thing in the

1135  
00:38:01,910 --> 00:37:59,520  
chat

1136  
00:38:02,950 --> 00:38:01,920  
now from somebody who has their own ufo

1137  
00:38:04,550 --> 00:38:02,960  
experience

1138  
00:38:06,950 --> 00:38:04,560

i mean i guess it's hard to answer

1139

00:38:11,109 --> 00:38:06,960

without investigating

1140

00:38:14,390 --> 00:38:11,119

is probably the answer yes indeed like

1141

00:38:17,190 --> 00:38:14,400

people's people's individual experiences

1142

00:38:19,270 --> 00:38:17,200

are often very personal and if they

1143

00:38:22,069 --> 00:38:19,280

don't have photographs or video

1144

00:38:23,990 --> 00:38:22,079

or images it's it's very hard to do

1145

00:38:26,470 --> 00:38:24,000

anything with a verbal description

1146

00:38:27,430 --> 00:38:26,480

and that's why i focus a lot on these

1147

00:38:29,510 --> 00:38:27,440

videos

1148

00:38:30,870 --> 00:38:29,520

uh people kind of say you know why don't

1149

00:38:33,750 --> 00:38:30,880

you why don't you

1150

00:38:34,310 --> 00:38:33,760

take the pilot's account into into

1151  
00:38:36,470 --> 00:38:34,320  
account

1152  
00:38:38,150 --> 00:38:36,480  
because people talk about having seen

1153  
00:38:39,589 --> 00:38:38,160  
things on the same day

1154  
00:38:41,670 --> 00:38:39,599  
but they didn't see what was actually in

1155  
00:38:43,510 --> 00:38:41,680  
the video so what i'm doing here is i'm

1156  
00:38:46,550 --> 00:38:43,520  
trying to explain what's in the video

1157  
00:38:48,230 --> 00:38:46,560  
and it's uh i'm not saying that this is

1158  
00:38:51,430 --> 00:38:48,240  
what everybody else saw

1159  
00:38:54,310 --> 00:38:51,440  
so this these videos being explained

1160  
00:38:55,990 --> 00:38:54,320  
doesn't actually disprove uh what any

1161  
00:38:57,270 --> 00:38:56,000  
one individual might have seen and it

1162  
00:39:00,310 --> 00:38:57,280  
certainly doesn't

1163  
00:39:02,230 --> 00:39:00,320

explain all the ufos let alone the the

1164

00:39:05,910 --> 00:39:02,240

events of the uh

1165

00:39:09,829 --> 00:39:08,310

so i guess whale is asking how i mean

1166

00:39:11,910 --> 00:39:09,839

how ultimately how do you distinguish

1167

00:39:14,069 --> 00:39:11,920

between a hoax and an optical effect

1168

00:39:15,990 --> 00:39:14,079

i mean i guess what would really

1169

00:39:16,710 --> 00:39:16,000

convince you that it was a ufo i guess

1170

00:39:19,910 --> 00:39:16,720

is that

1171

00:39:23,510 --> 00:39:19,920

that it was aliens um well

1172

00:39:26,829 --> 00:39:23,520

i think the gold standard for science

1173

00:39:29,990 --> 00:39:26,839

is independently verifiable

1174

00:39:30,710 --> 00:39:30,000

um experiments that demonstrate or fail

1175

00:39:34,390 --> 00:39:30,720

to falsify

1176

00:39:38,069 --> 00:39:34,400

a hypothesis and with ufos

1177

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

what you would like want to see ideally

1178

00:39:45,109 --> 00:39:42,000

is multiple cameras

1179

00:39:48,230 --> 00:39:45,119

from individuals who are not related

1180

00:39:50,150 --> 00:39:48,240

in any way uh sharing the same thing and

1181

00:39:51,270 --> 00:39:50,160

perhaps also like things like actual

1182

00:39:52,950 --> 00:39:51,280

radar data

1183

00:39:54,390 --> 00:39:52,960

in these cases people talk about the

1184

00:39:57,349 --> 00:39:54,400

there being radar data

1185

00:39:58,790 --> 00:39:57,359

but there isn't actually any data we can

1186

00:40:00,230 --> 00:39:58,800

look at there's just people saying oh i

1187

00:40:02,230 --> 00:40:00,240

remember being there at the time and i

1188

00:40:05,109 --> 00:40:02,240

saw these things on the radar

1189

00:40:06,069 --> 00:40:05,119

uh so yeah we want to have multiple sets

1190

00:40:12,470 --> 00:40:06,079

of data

1191

00:40:13,990 --> 00:40:12,480

somebody asking about conspiracy

1192

00:40:15,990 --> 00:40:14,000

enthusiasts so how do you

1193

00:40:17,589 --> 00:40:16,000

how do you i guess try to convince

1194

00:40:19,030 --> 00:40:17,599

somebody who doesn't seem to want to be

1195

00:40:22,630 --> 00:40:19,040

convinced

1196

00:40:24,630 --> 00:40:22,640

uh you talk to them

1197

00:40:25,910 --> 00:40:24,640

and you don't give up and you stay

1198

00:40:27,190 --> 00:40:25,920

polite

1199

00:40:29,510 --> 00:40:27,200

the most important thing to do with

1200

00:40:31,349 --> 00:40:29,520

anybody who is a conspiracy enthusiast

1201

00:40:34,790 --> 00:40:31,359

like say a q a non person

1202

00:40:38,150 --> 00:40:34,800

is to keep them grounded in reality

1203

00:40:39,990 --> 00:40:38,160

people often kind of lose lose

1204

00:40:40,950 --> 00:40:40,000

grasp of like what's real and what isn't

1205

00:40:42,630 --> 00:40:40,960

and they start getting all their

1206

00:40:44,630 --> 00:40:42,640

information from

1207

00:40:45,829 --> 00:40:44,640

a source or sources that are not very

1208

00:40:47,510 --> 00:40:45,839

good and

1209

00:40:48,870 --> 00:40:47,520

if you are talking to them now you might

1210

00:40:51,190 --> 00:40:48,880

be one of the few

1211

00:40:52,069 --> 00:40:51,200

sources of good information that's out

1212

00:40:53,670 --> 00:40:52,079

there so

1213

00:40:56,790 --> 00:40:53,680

even though you might not be able to

1214

00:40:59,190 --> 00:40:56,800

dissuade them from their strange beliefs

1215

00:41:00,710 --> 00:40:59,200

just keeping talking to them and talking

1216

00:41:02,309 --> 00:41:00,720

about things that are real and giving

1217

00:41:05,109 --> 00:41:02,319

them information that is real

1218

00:41:06,069 --> 00:41:05,119

in a nice non confrontational a nice

1219

00:41:08,150 --> 00:41:06,079

friendly way

1220

00:41:10,309 --> 00:41:08,160

that actually does have an effect it can