



1
00:00:18,150 --> 00:00:12,709
this is not

2
00:00:25,670 --> 00:00:22,310
this is an ifo identified flying object

3
00:00:31,750 --> 00:00:25,680
a man not superman jetting in a bell

4
00:00:34,870 --> 00:00:31,760
aerosystem's rocket belt

5
00:00:39,430 --> 00:00:34,880
[Music]

6
00:00:42,869 --> 00:00:39,440
this is a ufo unidentified flying object

7
00:00:44,790 --> 00:00:42,879
popularly called a flying saucer

8
00:00:46,389 --> 00:00:44,800
to responsible scientists and photo

9
00:00:51,029 --> 00:00:46,399
analysts they are

10
00:00:54,389 --> 00:00:51,039
particular clouds sun dogs

11
00:00:58,069 --> 00:00:54,399
planets balloons

12
00:01:01,590 --> 00:00:58,079
or mirages first of all the objects are

13
00:01:03,990 --> 00:01:01,600

not unidentified we know what they are

14

00:01:05,350 --> 00:01:04,000

second in many cases in most cases

15

00:01:07,830 --> 00:01:05,360

they're not flying

16

00:01:11,109 --> 00:01:07,840

and finally in many cases they are not

17

00:01:14,550 --> 00:01:13,750

a rio flying saucer looks like this an

18

00:01:17,190 --> 00:01:14,560

avro car

19

00:01:19,990 --> 00:01:17,200

manufactured in canada being test flown

20

00:01:22,149 --> 00:01:20,000

in 1961

21

00:01:24,070 --> 00:01:22,159

or like this free-flying air-cushion

22

00:01:29,510 --> 00:01:24,080

vehicle being flown by its inventor

23

00:01:33,109 --> 00:01:32,310

but ufo sightings persist and skeptics

24

00:01:36,149 --> 00:01:33,119

often become

25

00:01:38,390 --> 00:01:36,159

confirmed believers i've slowly come to

26
00:01:40,870 --> 00:01:38,400
conclusion that there are such things as

27
00:01:42,310 --> 00:01:40,880
interplanetary spaceships i have to

28
00:01:44,789 --> 00:01:42,320
stick my neck out and say that because i

29
00:01:47,109 --> 00:01:44,799
believe it at long last

30
00:01:48,469 --> 00:01:47,119
psychiatrists often call these reported

31
00:01:52,230 --> 00:01:48,479
ufo sightings

32
00:01:53,990 --> 00:01:52,240
illusions hallucinations self delusions

33
00:01:56,149 --> 00:01:54,000
i'm not saying that there aren't things

34
00:01:59,030 --> 00:01:56,159
in the sky that we don't know about

35
00:02:01,510 --> 00:01:59,040
what i am saying is that when there's

36
00:02:05,270 --> 00:02:01,520
anything that one doesn't know about

37
00:02:08,710 --> 00:02:05,280
then the mind fills it with a great

38
00:02:11,110 --> 00:02:08,720

mass of fantasy and most

39

00:02:11,990 --> 00:02:11,120
of what we're dealing with in these

40

00:02:15,030 --> 00:02:12,000
reports

41

00:02:18,630 --> 00:02:15,040
is almost certainly fantasy

42

00:02:20,470 --> 00:02:18,640
fact or fiction myth menace or marsh gas

43

00:02:22,470 --> 00:02:20,480
this is an age when scientific and

44

00:02:24,390 --> 00:02:22,480
technological developments are rapidly

45

00:02:25,420 --> 00:02:24,400
making yesterday's fiction

46

00:02:28,869 --> 00:02:25,430
fact

47

00:02:32,630 --> 00:02:31,750
how much do we know and how we know what

48

00:02:34,830 --> 00:02:32,640
we know

49

00:02:36,710 --> 00:02:34,840
is what tonight's cbs reports is all

50

00:02:44,869 --> 00:02:36,720
about

51
00:02:52,150 --> 00:02:48,309
cbs reports ufo

52
00:02:53,270 --> 00:02:52,160
friend foe or fantasy reported by cbs

53
00:02:56,630 --> 00:02:53,280
news correspondent

54
00:02:58,869 --> 00:02:56,640
walter cronkite good evening reports of

55
00:03:01,030 --> 00:02:58,879
flying saucers are nothing new

56
00:03:01,910 --> 00:03:01,040
from the beginning of recorded time men

57
00:03:04,550 --> 00:03:01,920
have been seeing

58
00:03:06,309 --> 00:03:04,560
unexplainable things in the sky and

59
00:03:07,110 --> 00:03:06,319
there's no reason to doubt they saw

60
00:03:09,750 --> 00:03:07,120
something

61
00:03:10,630 --> 00:03:09,760
the question is was what they saw really

62
00:03:13,350 --> 00:03:10,640
there

63
00:03:16,070 --> 00:03:13,360

and what was it they really saw the

64

00:03:17,430 --> 00:03:16,080

great flying saucer mystery of 1966

65

00:03:19,830 --> 00:03:17,440

began here

66

00:03:21,910 --> 00:03:19,840

near dexter michigan late in march and

67

00:03:23,990 --> 00:03:21,920

before the month was out flying saucers

68

00:03:24,949 --> 00:03:24,000

were being reported from new jersey to

69

00:03:27,270 --> 00:03:24,959

california

70

00:03:28,550 --> 00:03:27,280

from colorado to long island from ohio

71

00:03:30,390 --> 00:03:28,560

to georgia

72

00:03:33,030 --> 00:03:30,400

invariably the first reports were

73

00:03:34,390 --> 00:03:33,040

brought in by quiet and sober citizens

74

00:03:37,350 --> 00:03:34,400

like frank manner

75

00:03:38,550 --> 00:03:37,360

father of ten children a country man a

76
00:03:41,910 --> 00:03:38,560
hunting man

77
00:03:44,470 --> 00:03:41,920
a man used to wooded swamplands by night

78
00:03:47,030 --> 00:03:44,480
well uh first beginning we were watching

79
00:03:49,110 --> 00:03:47,040
television and we have

80
00:03:51,509 --> 00:03:49,120
six dogs here and they started raising a

81
00:03:53,830 --> 00:03:51,519
fuss in which they never do much so

82
00:03:55,670 --> 00:03:53,840
i went outside and gave a yell at them

83
00:03:56,869 --> 00:03:55,680
and as i turned around to come back on

84
00:03:59,990 --> 00:03:56,879
the porch

85
00:04:03,910 --> 00:04:00,000
i looked to the north of me and uh

86
00:04:06,229 --> 00:04:03,920
there were looked like a fallen star

87
00:04:08,390 --> 00:04:06,239
meter it was red and kind of coming down

88
00:04:11,670 --> 00:04:08,400

and on a 40 about a 45

89

00:04:12,949 --> 00:04:11,680

and so then i

90

00:04:14,630 --> 00:04:12,959

watched it and i was going to see if it

91

00:04:15,589 --> 00:04:14,640

landed and then maybe go down and see

92

00:04:17,509 --> 00:04:15,599

what it was

93

00:04:18,710 --> 00:04:17,519

and when it got to the top of the trees

94

00:04:22,069 --> 00:04:18,720

it stopped

95

00:04:24,629 --> 00:04:22,079

in a blue and a white light come on

96

00:04:26,070 --> 00:04:24,639

and uh i looked at it and i thought i

97

00:04:28,310 --> 00:04:26,080

was seeing things

98

00:04:30,390 --> 00:04:28,320

frank banner's ufo remained over his

99

00:04:33,189 --> 00:04:30,400

swamp more than four hours

100

00:04:35,270 --> 00:04:33,199

his children saw it his in-laws saw it

101
00:04:38,469 --> 00:04:35,280
residents of the area saw it

102
00:04:40,150 --> 00:04:38,479
the police saw it no one photographed it

103
00:04:41,670 --> 00:04:40,160
but sergeant newell schneider of the

104
00:04:41,990 --> 00:04:41,680
sheriff's office remembered it well

105
00:04:45,990 --> 00:04:42,000
enough

106
00:04:48,390 --> 00:04:46,000
to draw it no it moved very rapidly

107
00:04:49,350 --> 00:04:48,400
at any speed or rather any direction it

108
00:04:51,030 --> 00:04:49,360
wanted to go

109
00:04:53,110 --> 00:04:51,040
why i could change and go to the right

110
00:04:55,590 --> 00:04:53,120
or the left or go crossways

111
00:04:56,870 --> 00:04:55,600
without hesitating a bit what do you

112
00:04:58,550 --> 00:04:56,880
think it was

113
00:05:00,469 --> 00:04:58,560

well if they call it a flying saucer

114

00:05:02,870 --> 00:05:00,479

that's what it is

115

00:05:05,110 --> 00:05:02,880

40 miles away another swamp land and

116

00:05:07,029 --> 00:05:05,120

another ufo sighting

117

00:05:08,629 --> 00:05:07,039

this is hillsdale and the girls at

118

00:05:10,790 --> 00:05:08,639

hillsdale college had a

119

00:05:12,070 --> 00:05:10,800

night to remember well when i was

120

00:05:13,590 --> 00:05:12,080

looking out the window with the

121

00:05:16,790 --> 00:05:13,600

binoculars i guess it was

122

00:05:19,270 --> 00:05:16,800

about 12. i saw it and i saw

123

00:05:20,550 --> 00:05:19,280

two red lights and i saw what looked to

124

00:05:21,830 --> 00:05:20,560

be shaped like a pie

125

00:05:23,510 --> 00:05:21,840

i could just see the front of it i just

126
00:05:25,189 --> 00:05:23,520
saw the round front and i could see the

127
00:05:26,629 --> 00:05:25,199
lights on either side

128
00:05:28,469 --> 00:05:26,639
and then the red light was sort of

129
00:05:29,670 --> 00:05:28,479
casting a glow over the whole thing so

130
00:05:31,990 --> 00:05:29,680
it looked like

131
00:05:33,430 --> 00:05:32,000
a round disc at first when i'd heard the

132
00:05:34,469 --> 00:05:33,440
other girls talk about it i didn't

133
00:05:38,310 --> 00:05:34,479
really

134
00:05:40,310 --> 00:05:38,320
make myself comprehend it because

135
00:05:42,310 --> 00:05:40,320
i hadn't seen it with my own eyes but

136
00:05:45,590 --> 00:05:42,320
then when i saw it

137
00:05:48,629 --> 00:05:45,600
i just was fascinated i wasn't afraid

138
00:05:51,029 --> 00:05:48,639

i i just wanted to stay there and keep

139

00:05:54,150 --> 00:05:51,039

my eyes glued to it i couldn't leave

140

00:05:56,070 --> 00:05:54,160

i know i thought but and i

141

00:05:57,270 --> 00:05:56,080

i mean i know myself i saw it but i

142

00:05:59,670 --> 00:05:57,280

don't

143

00:06:01,590 --> 00:05:59,680

i believe i saw it but i can't fathom it

144

00:06:03,990 --> 00:06:01,600

because it seems so unreal

145

00:06:05,670 --> 00:06:04,000

william van horn hillsdale's undertaker

146

00:06:07,830 --> 00:06:05,680

and civil defense director

147

00:06:09,670 --> 00:06:07,840

also spotted the ufo that was out with

148

00:06:11,990 --> 00:06:09,680

his geiger counter next day

149

00:06:14,390 --> 00:06:12,000

checking a mysterious perfect circle

150

00:06:16,870 --> 00:06:14,400

where the ufo had been seen

151
00:06:17,430 --> 00:06:16,880
van horn did not find any radioactivity

152
00:06:19,029 --> 00:06:17,440
here

153
00:06:21,270 --> 00:06:19,039
but this did not shake his certainty

154
00:06:22,629 --> 00:06:21,280
that he had seen a hovering vehicle with

155
00:06:24,550 --> 00:06:22,639
two lights

156
00:06:26,550 --> 00:06:24,560
many people ask him why he did not go

157
00:06:29,110 --> 00:06:26,560
right up to the ufo in the dark

158
00:06:30,309 --> 00:06:29,120
i'd uh much rather be a live coward than

159
00:06:33,029 --> 00:06:30,319
a dead hero

160
00:06:34,550 --> 00:06:33,039
and uh with the area of uncertainty that

161
00:06:37,990 --> 00:06:34,560
we have here

162
00:06:40,469 --> 00:06:38,000
how do i know but what uh maybe uh

163
00:06:42,710 --> 00:06:40,479

maybe there's a current uh another

164

00:06:44,710 --> 00:06:42,720

electrical charge which is being

165

00:06:46,150 --> 00:06:44,720

radiated by one of these vehicles which

166

00:06:47,909 --> 00:06:46,160

would uh

167

00:06:49,270 --> 00:06:47,919

electrocute you if you got within a

168

00:06:51,350 --> 00:06:49,280

certain area of it

169

00:06:52,469 --> 00:06:51,360

there was no sound whatsoever i could

170

00:06:55,510 --> 00:06:52,479

not hear a

171

00:06:55,830 --> 00:06:55,520

uh a bit of sound the air force sent its

172

00:06:58,230 --> 00:06:55,840

chief

173

00:06:59,430 --> 00:06:58,240

scientific consultant on ufos professor

174

00:07:02,070 --> 00:06:59,440

j allen heineck

175

00:07:03,990 --> 00:07:02,080

to check the michigan sightings dr

176
00:07:04,550 --> 00:07:04,000
heineck agreed that the good citizens of

177
00:07:07,670 --> 00:07:04,560
michigan

178
00:07:08,870 --> 00:07:07,680
had seen something in the marshland he

179
00:07:12,390 --> 00:07:08,880
thought they had seen

180
00:07:15,670 --> 00:07:12,400
marsh gas i've had many many letters

181
00:07:16,309 --> 00:07:15,680
pointing out that they as children on

182
00:07:18,390 --> 00:07:16,319
the farm

183
00:07:20,309 --> 00:07:18,400
had had many experiences with swamp

184
00:07:21,430 --> 00:07:20,319
lights and that this was obviously the

185
00:07:22,950 --> 00:07:21,440
thing that it was and they couldn't

186
00:07:24,870 --> 00:07:22,960
understand why the people in michigan

187
00:07:27,350 --> 00:07:24,880
got so excited over swamp lights

188
00:07:28,710 --> 00:07:27,360

and the illusion of motion frequently is

189

00:07:31,270 --> 00:07:28,720

given by the fact that

190

00:07:32,870 --> 00:07:31,280

a little bit of swamp light appears here

191

00:07:35,110 --> 00:07:32,880

it goes out another one appears over

192

00:07:36,950 --> 00:07:35,120

here that goes out there and but the

193

00:07:38,629 --> 00:07:36,960

illusion as viewed from a distance is

194

00:07:39,189 --> 00:07:38,639

that the objects have moved back and

195

00:07:42,150 --> 00:07:39,199

forth

196

00:07:43,029 --> 00:07:42,160

and sometimes this gas will gather into

197

00:07:46,230 --> 00:07:43,039

a ball

198

00:07:47,670 --> 00:07:46,240

and actually float away in washington a

199

00:07:50,469 --> 00:07:47,680

private unofficial group

200

00:07:52,469 --> 00:07:50,479

known as nycap national investigations

201
00:07:54,390 --> 00:07:52,479
committee on aerial phenomena

202
00:07:55,749 --> 00:07:54,400
called a news conference dismissed the

203
00:07:57,510 --> 00:07:55,759
swamp gas theory

204
00:07:59,909 --> 00:07:57,520
and reopened an old argument with the

205
00:08:02,550 --> 00:07:59,919
air force nycaps director

206
00:08:03,589 --> 00:08:02,560
major donald e kehoe a retired marine

207
00:08:05,430 --> 00:08:03,599
corps officer

208
00:08:06,790 --> 00:08:05,440
insisted that the air force knew more

209
00:08:10,309 --> 00:08:06,800
than it was telling we

210
00:08:13,589 --> 00:08:10,319
are being observed

211
00:08:16,710 --> 00:08:13,599
by some type of device which is

212
00:08:18,869 --> 00:08:16,720
ahead of us far ahead of us and is

213
00:08:21,510 --> 00:08:18,879

probably controlled by a

214

00:08:23,350 --> 00:08:21,520

highly advanced superior civilization

215

00:08:25,990 --> 00:08:23,360

now this is a conclusion

216

00:08:26,710 --> 00:08:26,000

which i personally have stated and is

217

00:08:28,790 --> 00:08:26,720

shared by

218

00:08:31,510 --> 00:08:28,800

some members of our board of governors

219

00:08:34,949 --> 00:08:31,520

and advisors not all of them

220

00:08:36,790 --> 00:08:34,959

but it has reached to the point where

221

00:08:38,790 --> 00:08:36,800

many people in the air force have the

222

00:08:40,630 --> 00:08:38,800

same conclusion in fact the air force at

223

00:08:41,589 --> 00:08:40,640

one time had a top secret estimate that

224

00:08:44,149 --> 00:08:41,599

these things were

225

00:08:47,190 --> 00:08:44,159

interplanetary spaceships so you will

226

00:08:50,550 --> 00:08:47,200

see that this instead of being a

227

00:08:53,030 --> 00:08:50,560

subject for ridicule and a big joke

228

00:08:55,269 --> 00:08:53,040

actually is a serious matter which could

229

00:08:57,509 --> 00:08:55,279

affect the lives of all of us

230

00:08:59,110 --> 00:08:57,519

and for the umpteenth time in as many

231

00:09:00,949 --> 00:08:59,120

years the air force

232

00:09:02,710 --> 00:09:00,959

called before a congressional committee

233

00:09:05,910 --> 00:09:02,720

said it was hiding nothing

234

00:09:08,389 --> 00:09:05,920

air force secretary harold brown we have

235

00:09:10,230 --> 00:09:08,399

not been hiding anything the

236

00:09:13,430 --> 00:09:10,240

investigations have been

237

00:09:15,430 --> 00:09:13,440

made public the explanations of those

238

00:09:17,110 --> 00:09:15,440

where there is a clear explanation

239

00:09:19,910 --> 00:09:17,120

have been made public the hearing this

240

00:09:22,870 --> 00:09:19,920

morning was public for just that reason

241

00:09:23,829 --> 00:09:22,880

in those cases where for lack of data or

242

00:09:26,949 --> 00:09:23,839

lack of a

243

00:09:28,870 --> 00:09:26,959

convincing hypothesis the

244

00:09:30,070 --> 00:09:28,880

sighting has been kept in the

245

00:09:32,070 --> 00:09:30,080

unidentified

246

00:09:33,509 --> 00:09:32,080

category we've been perfectly willing to

247

00:09:36,070 --> 00:09:33,519

say that too

248

00:09:37,030 --> 00:09:36,080

but if the air force had nothing to hide

249

00:09:38,630 --> 00:09:37,040

frank manor

250

00:09:40,550 --> 00:09:38,640

the michigan farmer who had brought in

251

00:09:43,430 --> 00:09:40,560

the first report was caught

252

00:09:44,470 --> 00:09:43,440

in the middle he was mad well you can

253

00:09:45,910 --> 00:09:44,480

look at here look

254

00:09:48,070 --> 00:09:45,920

beer bottle's thrown look at my

255

00:09:49,190 --> 00:09:48,080

windshield what would you think if some

256

00:09:49,590 --> 00:09:49,200

of your swollen beer bottles at your

257

00:09:50,550 --> 00:09:49,600

house

258

00:09:52,710 --> 00:09:50,560

stand out in the middle of the road

259

00:09:54,470 --> 00:09:52,720

screaming uh

260

00:09:56,389 --> 00:09:54,480

you nut they're fantastic and all that

261

00:09:57,990 --> 00:09:56,399

what would you think are you sorry now

262

00:10:00,150 --> 00:09:58,000

that you did tell people what you saw

263

00:10:02,790 --> 00:10:00,160

yes i am i am i'm sorry because

264

00:10:03,509 --> 00:10:02,800

it not that it's not the truth but it's

265

00:10:05,190 --> 00:10:03,519

just the idea

266

00:10:06,790 --> 00:10:05,200

the reaction of the people they think

267

00:10:08,630 --> 00:10:06,800

you're a

268

00:10:09,829 --> 00:10:08,640

nut tell you the truth that's just what

269

00:10:11,030 --> 00:10:09,839

they figure you are

270

00:10:12,870 --> 00:10:11,040

and i'm not going to take it anymore i

271

00:10:15,990 --> 00:10:12,880

don't want nobody down in here i just

272

00:10:16,630 --> 00:10:16,000

leave me alone and if the thing lands

273

00:10:18,470 --> 00:10:16,640

right there and

274

00:10:20,630 --> 00:10:18,480

right there by that pump i'd never say a

275

00:10:22,230 --> 00:10:20,640

word then he got out and talked to me i

276

00:10:23,590 --> 00:10:22,240

wouldn't tell nobody

277

00:10:26,470 --> 00:10:23,600

that's just the way i feel i'm bitter

278

00:10:29,030 --> 00:10:26,480

and and disgusted in the whole matter

279

00:10:30,550 --> 00:10:29,040

and if if people's gonna act like that i

280

00:10:32,870 --> 00:10:30,560

hope one lands right in ann arbor right

281

00:10:35,190 --> 00:10:32,880

in the middle of detroit

282

00:10:37,190 --> 00:10:35,200

if flying saucers had become a painfully

283

00:10:39,190 --> 00:10:37,200

closed subject of frank manor

284

00:10:40,790 --> 00:10:39,200

they nevertheless remained an intriguing

285

00:10:42,150 --> 00:10:40,800

open subject to millions of his

286

00:10:44,389 --> 00:10:42,160

countrymen

287

00:10:46,710 --> 00:10:44,399

ufos had been popularized here and

288

00:10:48,870 --> 00:10:46,720

abroad for almost 20 years

289

00:10:50,550 --> 00:10:48,880

ever since a pilot named kenneth arnold

290

00:10:52,069 --> 00:10:50,560

reported seeing some discs

291

00:10:54,150 --> 00:10:52,079

and said they looked to him the way

292

00:10:55,350 --> 00:10:54,160

saucers would if you skimmed them across

293

00:10:58,069 --> 00:10:55,360

water

294

00:10:59,910 --> 00:10:58,079

as for the latest rash of ufo reports a

295

00:11:02,150 --> 00:10:59,920

pioneer in rocketry and an early

296

00:11:02,949 --> 00:11:02,160

popularizer of interplanetary space

297

00:11:05,430 --> 00:11:02,959

travel

298

00:11:06,230 --> 00:11:05,440

dr willy lay thought he detected a

299

00:11:08,949 --> 00:11:06,240

reason

300

00:11:09,910 --> 00:11:08,959

well it is very typical that it is a

301
00:11:13,670 --> 00:11:09,920
rash

302
00:11:16,310 --> 00:11:13,680
because if you get one report you get a

303
00:11:19,829 --> 00:11:16,320
clutch of other reports following it

304
00:11:22,470 --> 00:11:19,839
it feeds on itself and the main problem

305
00:11:24,389 --> 00:11:22,480
there is that the term flying saucer or

306
00:11:28,310 --> 00:11:24,399
to go official about it

307
00:11:30,870 --> 00:11:28,320
ufo has produced a label

308
00:11:32,790 --> 00:11:30,880
uh in the past if somebody saw a streak

309
00:11:34,870 --> 00:11:32,800
of light in the sky which she couldn't

310
00:11:35,990 --> 00:11:34,880
understand and which didn't interest him

311
00:11:37,990 --> 00:11:36,000
very much

312
00:11:39,750 --> 00:11:38,000
when he might have told his wife that he

313
00:11:40,710 --> 00:11:39,760

saw a streak of light most likely he

314

00:11:43,590 --> 00:11:40,720

didn't

315

00:11:45,030 --> 00:11:43,600

but now that he has a label to put to it

316

00:11:47,750 --> 00:11:45,040

he comes home and tells

317

00:11:50,150 --> 00:11:47,760

his wife his children his neighbors the

318

00:11:52,870 --> 00:11:50,160

policemen on duty and a few other people

319

00:11:55,190 --> 00:11:52,880

that he saw a flying saucer in the days

320

00:11:55,990 --> 00:11:55,200

to come many more people will cite many

321

00:11:59,590 --> 00:11:56,000

more flying

322

00:12:02,629 --> 00:11:59,600

saucers some these ufos will be miracles

323

00:12:03,430 --> 00:12:02,639

to others real but unexplainable to most

324

00:12:05,910 --> 00:12:03,440

scientists

325

00:12:06,629 --> 00:12:05,920

natural phenomena some people will be

326

00:12:08,949 --> 00:12:06,639

fooled

327

00:12:11,030 --> 00:12:08,959

others will try to fool the rest but a

328

00:12:12,470 --> 00:12:11,040

few will be expert observers

329

00:12:14,150 --> 00:12:12,480

and their sightings will keep the

330

00:12:16,389 --> 00:12:14,160

controversy churning over whether

331

00:12:18,389 --> 00:12:16,399

vehicles from outer space are possible

332

00:12:20,150 --> 00:12:18,399

and whether indeed these vehicles

333

00:12:22,389 --> 00:12:20,160

already have arrived here

334

00:12:29,750 --> 00:12:22,399

we turn to that part of the ufo story in

335

00:12:35,030 --> 00:12:32,629

here is a ritual that goes on night

336

00:12:36,949 --> 00:12:35,040

after night before each new term in high

337

00:12:39,509 --> 00:12:36,959

schools all over the land

338

00:12:41,910 --> 00:12:39,519

this is scheduling the fitting of

339

00:12:44,069 --> 00:12:41,920

courses to the needs of each student

340

00:12:45,350 --> 00:12:44,079

and the needs of each student to the new

341

00:12:46,870 --> 00:12:45,360

terms classes

342

00:12:48,790 --> 00:12:46,880

these teachers and counselors are

343

00:12:51,670 --> 00:12:48,800

searching by trial and error

344

00:12:53,910 --> 00:12:51,680

for a schedule that works trying out

345

00:12:55,460 --> 00:12:53,920

students and classes in combination

346

00:12:58,070 --> 00:12:55,470

after combination

347

00:12:59,750 --> 00:12:58,080

[Music]

348

00:13:01,910 --> 00:12:59,760

[Applause]

349

00:13:03,350 --> 00:13:01,920

night after night right up to the

350

00:13:06,310 --> 00:13:03,360

opening of school

351
00:13:08,310 --> 00:13:06,320
but in this high school where 2 000

352
00:13:09,829 --> 00:13:08,320
students have their choice of more than

353
00:13:12,949 --> 00:13:09,839
100 classes

354
00:13:15,269 --> 00:13:12,959
this ibm computer tries out millions of

355
00:13:17,910 --> 00:13:15,279
combinations of students and classes

356
00:13:20,629 --> 00:13:17,920
and arrives at the optimum schedule in

357
00:13:24,310 --> 00:13:20,639
one afternoon the process

358
00:13:25,670 --> 00:13:24,320
starts in a student counselor's office

359
00:13:27,350 --> 00:13:25,680
if you're planning on a scientific

360
00:13:28,389 --> 00:13:27,360
career such as medicine that maybe

361
00:13:31,030 --> 00:13:28,399
physiology or

362
00:13:33,030 --> 00:13:31,040
or biology the counselor analyzes where

363
00:13:34,949 --> 00:13:33,040

each student's abilities lie

364

00:13:37,269 --> 00:13:34,959

and where he needs direction the

365

00:13:39,189 --> 00:13:37,279

counselor then simply marks the ideal

366

00:13:40,150 --> 00:13:39,199

courses for the student on one of these

367

00:13:42,710 --> 00:13:40,160

lists

368

00:13:43,590 --> 00:13:42,720

these course requests go into the ibm

369

00:13:45,750 --> 00:13:43,600

computer

370

00:13:48,150 --> 00:13:45,760

already stored in its disk memory are

371

00:13:48,949 --> 00:13:48,160

related facts about each course when

372

00:13:51,430 --> 00:13:48,959

it's given

373

00:13:52,389 --> 00:13:51,440

how much space in the class and here's

374

00:13:54,870 --> 00:13:52,399

the result

375

00:13:55,910 --> 00:13:54,880

the most workable schedule for every

376

00:13:59,030 --> 00:13:55,920

student

377

00:14:01,990 --> 00:13:59,040

coming up as a roster of each class

378

00:14:05,910 --> 00:14:02,000

for each teacher that's one of the jobs

379

00:14:12,230 --> 00:14:09,430

also you've got about 10 minutes left

380

00:14:14,389 --> 00:14:12,240

the computer also scores tests and

381

00:14:17,030 --> 00:14:14,399

supplies more information from them

382

00:14:18,389 --> 00:14:17,040

not only grades but where each student

383

00:14:20,629 --> 00:14:18,399

stands in the class

384

00:14:29,670 --> 00:14:20,639

where the class stands in the state and

385

00:14:32,230 --> 00:14:29,680

the state in the nation

386

00:14:33,430 --> 00:14:32,240

this computer information gives teachers

387

00:14:36,069 --> 00:14:33,440

a better idea

388

00:14:36,629 --> 00:14:36,079

where more work is needed the computer

389

00:14:38,870 --> 00:14:36,639

also

390

00:14:42,150 --> 00:14:38,880

stores grades from the teacher plus

391

00:14:44,230 --> 00:14:42,160

comments on each student

392

00:14:49,189 --> 00:14:44,240

all this information is processed and

393

00:14:52,470 --> 00:14:51,590

and as a complete record for counselors

394

00:14:55,670 --> 00:14:52,480

on which to base

395

00:14:58,470 --> 00:14:55,680

more accurate guidance with your 40th

396

00:15:01,750 --> 00:14:58,480

percentile story

397

00:15:04,230 --> 00:15:01,760

the ibm secondary school computer system

398

00:15:05,189 --> 00:15:04,240

giving our teachers a better opportunity

399

00:15:08,510 --> 00:15:05,199

to know

400

00:15:10,829 --> 00:15:08,520

and help each and every individual

401

00:15:26,230 --> 00:15:10,839

[Music]

402

00:15:30,310 --> 00:15:28,629

here again is cbs news correspondent

403

00:15:31,990 --> 00:15:30,320

walter cronkite

404

00:15:33,749 --> 00:15:32,000

there are more things in heaven and

405

00:15:36,310 --> 00:15:33,759

earth says shakespeare's hamlet

406

00:15:38,150 --> 00:15:36,320

than are dreamt of in your philosophy on

407

00:15:39,990 --> 00:15:38,160

the other hand there may be less there

408

00:15:41,590 --> 00:15:40,000

than often meets the eye the

409

00:15:43,670 --> 00:15:41,600

oceanographer and meteorologist

410

00:15:45,990 --> 00:15:43,680

applestand spielhouse

411

00:15:47,829 --> 00:15:46,000

in the very early times people didn't

412

00:15:50,949 --> 00:15:47,839

understand the majestic

413

00:15:53,030 --> 00:15:50,959

kind of catastrophes of nature if a

414

00:15:56,550 --> 00:15:53,040

volcano blew its head and

415

00:15:59,189 --> 00:15:56,560

and destroyed a village primitive people

416

00:16:02,629 --> 00:15:59,199

used to think of it as some

417

00:16:04,550 --> 00:16:02,639

enlarged monster some enlargement

418

00:16:07,189 --> 00:16:04,560

of a thing that was familiar to them

419

00:16:09,749 --> 00:16:07,199

like a wild animal or something

420

00:16:10,829 --> 00:16:09,759

in other words they interpreted the this

421

00:16:13,910 --> 00:16:10,839

uh

422

00:16:16,389 --> 00:16:13,920

understandable rather fearsome thing

423

00:16:18,230 --> 00:16:16,399

in terms of their present knowledge

424

00:16:20,629 --> 00:16:18,240

primitive as it was

425

00:16:23,269 --> 00:16:20,639

from there you get into medieval times

426
00:16:24,230 --> 00:16:23,279
with a sort of resurgence of mysticism

427
00:16:27,590 --> 00:16:24,240
and

428
00:16:30,629 --> 00:16:27,600
saw

429
00:16:31,829 --> 00:16:30,639
unexplained things in the sky in those

430
00:16:34,150 --> 00:16:31,839
days

431
00:16:36,710 --> 00:16:34,160
they explained them as miracles well

432
00:16:39,189 --> 00:16:36,720
then you get to today

433
00:16:40,629 --> 00:16:39,199
and we're on the brink of interplanetary

434
00:16:43,829 --> 00:16:40,639
travel

435
00:16:45,749 --> 00:16:43,839
and so we begin to see things in the sky

436
00:16:48,150 --> 00:16:45,759
again that we can't understand

437
00:16:49,350 --> 00:16:48,160
or can't explain immediately so we

438
00:16:53,350 --> 00:16:49,360

explain them again

439

00:16:57,189 --> 00:16:53,360

with this uh sort of colossal egotism

440

00:16:59,590 --> 00:16:57,199

of the of man at his present time

441

00:17:00,470 --> 00:16:59,600

we explain them in terms of our later

442

00:17:02,230 --> 00:17:00,480

stability

443

00:17:06,230 --> 00:17:02,240

namely on the brink of space travel

444

00:17:11,270 --> 00:17:08,390

but then only a few years ago this would

445

00:17:13,990 --> 00:17:11,280

have been called an optical illusion

446

00:17:15,990 --> 00:17:14,000

or it might have been called a miracle

447

00:17:18,390 --> 00:17:16,000

but a man being powered through the air

448

00:17:21,829 --> 00:17:18,400

without benefit of plane or balloon

449

00:17:27,029 --> 00:17:21,839

is today a reality tomorrow he may even

450

00:17:30,070 --> 00:17:29,190

there are jets that can rise straight up

451
00:17:35,029 --> 00:17:30,080
and then hover

452
00:17:39,270 --> 00:17:36,710
the french also have experimented in

453
00:17:43,350 --> 00:17:39,280
this field this is the balzac

454
00:17:47,510 --> 00:17:45,830
the germans also are doing it this is

455
00:17:50,870 --> 00:17:47,520
the ewr

456
00:17:54,630 --> 00:17:50,880
here it comes in for a landing ewr not

457
00:17:57,750 --> 00:17:54,640
ufo the american xv

458
00:17:58,630 --> 00:17:57,760
5a built by ryan and only flies straight

459
00:18:03,510 --> 00:17:58,640
up and down

460
00:18:09,029 --> 00:18:06,710
northrop's wingless m2 f2 otherwise

461
00:18:11,590 --> 00:18:09,039
known as the flying bathtub

462
00:18:12,150 --> 00:18:11,600
is nasa's lifting reentry body half

463
00:18:14,310 --> 00:18:12,160

plane

464

00:18:17,669 --> 00:18:14,320

half spacecraft landing like a

465

00:18:19,270 --> 00:18:17,679

conventional jet without power

466

00:18:21,190 --> 00:18:19,280

another wingless piece of airborne

467

00:18:22,150 --> 00:18:21,200

hardware is this a lunar landing

468

00:18:24,710 --> 00:18:22,160

research vehicle

469

00:18:25,669 --> 00:18:24,720

at nasa's research center looking more

470

00:18:27,990 --> 00:18:25,679

like a giant

471

00:18:29,510 --> 00:18:28,000

flying ant that might have come out of a

472

00:18:33,110 --> 00:18:29,520

martian comic book

473

00:18:35,190 --> 00:18:33,120

it will be used when we get to the moon

474

00:18:37,510 --> 00:18:35,200

small wonder that layman seeing such

475

00:18:39,430 --> 00:18:37,520

things in newspapers aviation and trade

476

00:18:40,390 --> 00:18:39,440

journals as well as in newsreels and on

477

00:18:43,029 --> 00:18:40,400

television

478

00:18:44,390 --> 00:18:43,039

are ever more ready to believe anything

479

00:18:46,630 --> 00:18:44,400

where these are real

480

00:18:49,110 --> 00:18:46,640

then others more incredible are most

481

00:18:51,029 --> 00:18:49,120

probably being tested in secret

482

00:18:52,789 --> 00:18:51,039

however all these vehicles operate

483

00:18:54,070 --> 00:18:52,799

within the laws of physics and

484

00:18:56,070 --> 00:18:54,080

aerodynamics

485

00:18:59,270 --> 00:18:56,080

even though they may give the appearance

486

00:19:01,430 --> 00:18:59,280

of operating outside the laws of nature

487

00:19:02,870 --> 00:19:01,440

but ufologists still insist there is

488

00:19:05,750 --> 00:19:02,880

more to it than this

489

00:19:06,950 --> 00:19:05,760

and so there is at england's victoria

490

00:19:09,270 --> 00:19:06,960

and albert museum

491

00:19:10,789 --> 00:19:09,280

cbs correspondent frank kern spoke to

492

00:19:14,230 --> 00:19:10,799

aeronautical historian

493

00:19:14,630 --> 00:19:14,240

charles harvard gibbsmith my position

494

00:19:17,350 --> 00:19:14,640

now

495

00:19:19,029 --> 00:19:17,360

i think is that i believe that about

496

00:19:20,549 --> 00:19:19,039

five percent of these things

497

00:19:22,230 --> 00:19:20,559

are interplanetary that is that they

498

00:19:25,270 --> 00:19:22,240

come to us from

499

00:19:28,870 --> 00:19:25,280

a world outside our planetary system

500

00:19:31,590 --> 00:19:28,880

uh and that some of them uh are in fact

501
00:19:32,230 --> 00:19:31,600
inhabited by intelligent beings of some

502
00:19:35,270 --> 00:19:32,240
kind

503
00:19:36,310 --> 00:19:35,280
and some uh look as if they're remotely

504
00:19:38,630 --> 00:19:36,320
controlled

505
00:19:39,590 --> 00:19:38,640
afro who really do we think we are we

506
00:19:42,150 --> 00:19:39,600
are we're a

507
00:19:42,630 --> 00:19:42,160
fifth-rate miserable measly little

508
00:19:45,270 --> 00:19:42,640
system

509
00:19:46,549 --> 00:19:45,280
out on the edge of the milky way fooling

510
00:19:49,430 --> 00:19:46,559
around the universe with

511
00:19:51,669 --> 00:19:49,440
four or five thousand years of so-called

512
00:19:53,669 --> 00:19:51,679
civilization behind us we think we are

513
00:19:54,870 --> 00:19:53,679

the cat's whiskers and we are not we're

514

00:19:58,390 --> 00:19:54,880

a potty second

515

00:20:00,710 --> 00:19:58,400

rate lot fifth rate on conceited as apes

516

00:20:02,230 --> 00:20:00,720

not all of us and and here we go in the

517

00:20:03,750 --> 00:20:02,240

moment anybody suggests that something

518

00:20:05,990 --> 00:20:03,760

should come in outside from

519

00:20:07,190 --> 00:20:06,000

from outside we think oh no no it can't

520

00:20:08,789 --> 00:20:07,200

be there it can't be that it's it's

521

00:20:09,430 --> 00:20:08,799

quite out you know these things can't

522

00:20:11,430 --> 00:20:09,440

happen

523

00:20:13,830 --> 00:20:11,440

and it i think we're all i do it myself

524

00:20:15,990 --> 00:20:13,840

we're all thinking medievally

525

00:20:16,950 --> 00:20:16,000

what convinces you more than anything

526

00:20:18,630 --> 00:20:16,960

else

527

00:20:20,070 --> 00:20:18,640

the evidence of the men that have seen

528

00:20:23,270 --> 00:20:20,080

them and primarily

529

00:20:25,029 --> 00:20:23,280

the behavior and descriptions uh of the

530

00:20:27,510 --> 00:20:25,039

objects themselves which

531

00:20:29,029 --> 00:20:27,520

do not fit really any other explanation

532

00:20:31,909 --> 00:20:29,039

and the old field sighting

533

00:20:32,390 --> 00:20:31,919

this thing which will become very famous

534

00:20:34,950 --> 00:20:32,400

where

535

00:20:35,590 --> 00:20:34,960

a couple who live in a cottage outside

536

00:20:38,549 --> 00:20:35,600

manchester

537

00:20:40,390 --> 00:20:38,559

took their first airline journey and

538

00:20:44,070 --> 00:20:40,400

they had a board a little

539

00:20:45,830 --> 00:20:44,080

film a little city camera and they take

540

00:20:47,190 --> 00:20:45,840

pictures down the fields as a couple

541

00:20:48,070 --> 00:20:47,200

would the first time ever been in an

542

00:20:50,710 --> 00:20:48,080

airplane

543

00:20:51,590 --> 00:20:50,720

and she takes what she thinks is an

544

00:20:53,669 --> 00:20:51,600

airplane

545

00:20:54,789 --> 00:20:53,679

coming up from behind them and then it

546

00:20:56,390 --> 00:20:54,799

goes out of

547

00:20:58,549 --> 00:20:56,400

vision in about 12 seconds or their

548

00:20:59,190 --> 00:20:58,559

bounce and she goes on taking a few more

549

00:21:01,190 --> 00:20:59,200

bits of that

550

00:21:02,710 --> 00:21:01,200

of the distant clouds and puts it back

551
00:21:03,270 --> 00:21:02,720
and when they get what's this thing i

552
00:21:06,630 --> 00:21:03,280
mean

553
00:21:09,590 --> 00:21:06,640
it's it's it's inexplicable by any uh

554
00:21:10,230 --> 00:21:09,600
unless it's a straight fake and to fake

555
00:21:13,029 --> 00:21:10,240
uh

556
00:21:14,230 --> 00:21:13,039
to fake an eight millimeter film in

557
00:21:17,350 --> 00:21:14,240
color

558
00:21:19,270 --> 00:21:17,360
wants a lot of equipment uh and

559
00:21:20,789 --> 00:21:19,280
who on earth are these this charming

560
00:21:23,430 --> 00:21:20,799
couple what would they be doing

561
00:21:24,549 --> 00:21:23,440
uh lending themselves to faking these it

562
00:21:27,190 --> 00:21:24,559
is nothing

563
00:21:29,430 --> 00:21:27,200

airborne we have ever seen i mean this

564

00:21:32,390 --> 00:21:29,440

is a basically sausage shape with

565

00:21:33,909 --> 00:21:32,400

two dorsal and two ventral fins and as

566

00:21:36,070 --> 00:21:33,919

you look at this film

567

00:21:37,110 --> 00:21:36,080

it turns away on its vertical axis from

568

00:21:39,990 --> 00:21:37,120

you and goes

569

00:21:42,230 --> 00:21:40,000

disappears out that way well i mean you

570

00:21:42,470 --> 00:21:42,240

can argue until blue in the face what is

571

00:21:46,070 --> 00:21:42,480

it

572

00:21:48,310 --> 00:21:46,080

except something that is airborne

573

00:21:49,590 --> 00:21:48,320

by a force probably electrogravitic

574

00:21:52,070 --> 00:21:49,600

force of some kind that we

575

00:21:53,830 --> 00:21:52,080

know nothing whatever about uh it is

576

00:21:55,590 --> 00:21:53,840

nothing conventional that is nothing

577

00:21:58,070 --> 00:21:55,600

unconventional aerodynamically there's

578

00:22:00,549 --> 00:21:58,080

no single piece of

579

00:22:03,110 --> 00:22:00,559

earth-borne equipment of any kind that

580

00:22:05,430 --> 00:22:03,120

can look and behave like that

581

00:22:06,390 --> 00:22:05,440

the old fields indeed had not faked

582

00:22:08,870 --> 00:22:06,400

anything

583

00:22:09,990 --> 00:22:08,880

but the ufo in their film soon proved

584

00:22:12,310 --> 00:22:10,000

explainable

585

00:22:14,310 --> 00:22:12,320

a few days later an enterprising bbc

586

00:22:16,870 --> 00:22:14,320

cameraman took a similar camera

587

00:22:18,549 --> 00:22:16,880

sat in the same seat and filmed the same

588

00:22:21,430 --> 00:22:18,559

english countryside

589

00:22:23,350 --> 00:22:21,440

the same ufo hovered into view went

590

00:22:26,390 --> 00:22:23,360

through the same maneuvers

591

00:22:29,190 --> 00:22:26,400

and disappeared into itself the same way

592

00:22:32,310 --> 00:22:29,200

the ufo turned out to be the reflection

593

00:22:33,909 --> 00:22:32,320

of the tail section of the plane itself

594

00:22:35,990 --> 00:22:33,919

the refraction of light in the earth's

595

00:22:38,549 --> 00:22:36,000

atmosphere is capable of fooling both

596

00:22:40,710 --> 00:22:38,559

the human eye and the camera lens

597

00:22:41,669 --> 00:22:40,720

and that thin life-giving envelope of

598

00:22:44,070 --> 00:22:41,679

atmosphere

599

00:22:45,110 --> 00:22:44,080

sets apart the spaceship earth from its

600

00:22:47,909 --> 00:22:45,120

sister planets

601
00:22:49,909 --> 00:22:47,919
as it spins about the sun at 66 000

602
00:22:51,830 --> 00:22:49,919
miles per hour

603
00:22:53,430 --> 00:22:51,840
one of the problems connected with man's

604
00:22:55,270 --> 00:22:53,440
flight through this environment

605
00:22:57,510 --> 00:22:55,280
derives from the law of physics

606
00:22:59,830 --> 00:22:57,520
governing objects moving at high speeds

607
00:23:02,070 --> 00:22:59,840
through the ocean of air

608
00:23:04,070 --> 00:23:02,080
aircraft moving at high speeds pierce

609
00:23:04,950 --> 00:23:04,080
the air compressed before the plane's

610
00:23:07,830 --> 00:23:04,960
wing

611
00:23:08,470 --> 00:23:07,840
a shock wave results it's become known

612
00:23:10,950 --> 00:23:08,480
as a

613
00:23:13,830 --> 00:23:10,960

sonic boom and even today's

614

00:23:16,070 --> 00:23:13,840

comparatively slow flying military jets

615

00:23:17,909 --> 00:23:16,080

alarm some citizens and run up bills for

616

00:23:20,070 --> 00:23:17,919

the defense department each year

617

00:23:27,029 --> 00:23:20,080

from the effect of these shock waves on

618

00:23:31,909 --> 00:23:30,230

question why have no ufos ever created

619

00:23:33,830 --> 00:23:31,919

an identical phenomenon

620

00:23:35,990 --> 00:23:33,840

when they're reported moving at speeds

621

00:23:37,830 --> 00:23:36,000

far in excess of jet planes

622

00:23:39,669 --> 00:23:37,840

as this film made by mrs madeleine

623

00:23:42,630 --> 00:23:39,679

rotifer in 1965

624

00:23:44,390 --> 00:23:42,640

purports to show further if the laws of

625

00:23:46,310 --> 00:23:44,400

nature prevent jet aircraft from

626

00:23:48,789 --> 00:23:46,320

abruptly changing direction without

627

00:23:51,269 --> 00:23:48,799

breaking up aircraft and passengers

628

00:23:53,590 --> 00:23:51,279

why would a ufo be exempt from the same

629

00:23:55,669 --> 00:23:53,600

effect at greater speeds

630

00:23:58,070 --> 00:23:55,679

the answer of most scientists is that we

631

00:24:00,070 --> 00:23:58,080

are not dealing with material objects

632

00:24:02,470 --> 00:24:00,080

from outer space at all

633

00:24:03,669 --> 00:24:02,480

but with lights reflections and natural

634

00:24:05,110 --> 00:24:03,679

phenomena

635

00:24:06,950 --> 00:24:05,120

former director of the harvard

636

00:24:07,990 --> 00:24:06,960

observatory now a member of the

637

00:24:11,029 --> 00:24:08,000

smithsonian

638

00:24:13,269 --> 00:24:11,039

professor donald h menzel

639

00:24:15,909 --> 00:24:13,279

many people looking up into the sky can

640

00:24:18,950 --> 00:24:15,919

see a bright object on the horizon

641

00:24:22,549 --> 00:24:18,960

they think that this object is a ufo

642

00:24:24,789 --> 00:24:22,559

when actually as we scientists know

643

00:24:25,750 --> 00:24:24,799

it can be an effect of the earth's

644

00:24:28,789 --> 00:24:25,760

atmosphere

645

00:24:31,830 --> 00:24:28,799

that through a layer

646

00:24:33,830 --> 00:24:31,840

of hot air that is entrapped above a

647

00:24:36,070 --> 00:24:33,840

layer of cold air near the ground

648

00:24:37,350 --> 00:24:36,080

we get an effect which uh we call a

649

00:24:40,310 --> 00:24:37,360

mirage

650

00:24:40,789 --> 00:24:40,320

now uh to demonstrate this i have a sort

651
00:24:44,390 --> 00:24:40,799
of a

652
00:24:46,950 --> 00:24:44,400
earth atmosphere in this jar

653
00:24:48,950 --> 00:24:46,960
this is a layer of benzene which is a

654
00:24:51,350 --> 00:24:48,960
very high index of refraction

655
00:24:52,070 --> 00:24:51,360
and it acts like a layer of cold air and

656
00:24:55,029 --> 00:24:52,080
i am now

657
00:24:55,990 --> 00:24:55,039
uh putting on top of it floating on it a

658
00:25:00,870 --> 00:24:56,000
layer

659
00:25:03,350 --> 00:25:00,880
of

660
00:25:04,630 --> 00:25:03,360
lesser refractive index it acts like a

661
00:25:06,390 --> 00:25:04,640
layer of hot air

662
00:25:07,909 --> 00:25:06,400
on the screen we will see a bright light

663
00:25:10,870 --> 00:25:07,919

that's being projected

664

00:25:11,269 --> 00:25:10,880

from the ground level here and passing

665

00:25:14,310 --> 00:25:11,279

through

666

00:25:15,350 --> 00:25:14,320

the acetone on the benzene and now we

667

00:25:17,909 --> 00:25:15,360

will turn out the lights

668

00:25:19,350 --> 00:25:17,919

and you see on the screen that the

669

00:25:22,230 --> 00:25:19,360

bright spot of light

670

00:25:24,070 --> 00:25:22,240

that was originally traversing this

671

00:25:25,830 --> 00:25:24,080

artificial atmosphere and appeared at

672

00:25:29,110 --> 00:25:25,840

the top of the screen

673

00:25:32,230 --> 00:25:29,120

gradually dims and

674

00:25:35,430 --> 00:25:32,240

a line of colored light streams out

675

00:25:37,110 --> 00:25:35,440

down below this spot and finally the

676
00:25:39,909 --> 00:25:37,120
spot near the top of the screen

677
00:25:42,149 --> 00:25:39,919
disappears and we see instead of

678
00:25:43,029 --> 00:25:42,159
beautifully colored and rapidly moving

679
00:25:45,990 --> 00:25:43,039
spot

680
00:25:46,789 --> 00:25:46,000
the colors are due to refraction the red

681
00:25:49,190 --> 00:25:46,799
color

682
00:25:49,990 --> 00:25:49,200
sometimes is attributed to the presence

683
00:25:53,430 --> 00:25:50,000
of a

684
00:25:56,710 --> 00:25:53,440
rapidly moving jet the blue color

685
00:25:59,350 --> 00:25:56,720
is sometimes interpreted as a motion

686
00:26:00,630 --> 00:25:59,360
toward the observer it's all an effect

687
00:26:03,510 --> 00:26:00,640
of a mirage

688
00:26:04,310 --> 00:26:03,520

and yet uh this has been reported again

689

00:26:06,710 --> 00:26:04,320

and again

690

00:26:08,710 --> 00:26:06,720

by experienced pilots who have thought

691

00:26:11,350 --> 00:26:08,720

that they were being attacked by ufo

692

00:26:14,950 --> 00:26:11,360

from outer space

693

00:26:16,950 --> 00:26:14,960

this is a type of sun dog ice crystals

694

00:26:18,710 --> 00:26:16,960

in an otherwise transparent atmosphere

695

00:26:21,590 --> 00:26:18,720

reflect light from the sun

696

00:26:22,310 --> 00:26:21,600

and it produces a saucer shaped uh body

697

00:26:24,950 --> 00:26:22,320

that

698

00:26:26,950 --> 00:26:24,960

can maneuver rush in toward the plane or

699

00:26:29,830 --> 00:26:26,960

sometimes move rapidly away as the

700

00:26:32,390 --> 00:26:29,840

density of ice crystals thins out

701
00:26:33,190 --> 00:26:32,400
there are brilliant meteors the shooting

702
00:26:36,310 --> 00:26:33,200
stars that

703
00:26:38,390 --> 00:26:36,320
uh flash through the sky there are many

704
00:26:41,430 --> 00:26:38,400
cases on record where a pilot and a

705
00:26:43,190 --> 00:26:41,440
co-pilot have seen the identical flyer

706
00:26:45,590 --> 00:26:43,200
in front of their plane

707
00:26:47,590 --> 00:26:45,600
and one of them has pulled up the plane

708
00:26:50,789 --> 00:26:47,600
abruptly in an attempt to

709
00:26:51,909 --> 00:26:50,799
maneuver to miss it when actually the

710
00:26:55,269 --> 00:26:51,919
other pilot uh

711
00:26:58,070 --> 00:26:55,279
claimed that it was an object 70 or 100

712
00:27:00,630 --> 00:26:58,080
miles away which actually it was

713
00:27:02,549 --> 00:27:00,640

in addition to mirages in the atmosphere

714

00:27:04,070 --> 00:27:02,559

many physical objects in the air have

715

00:27:06,149 --> 00:27:04,080

been taken for saucers

716

00:27:07,669 --> 00:27:06,159

like this translucent balloon that can

717

00:27:09,029 --> 00:27:07,679

carry instruments up to a hundred

718

00:27:12,149 --> 00:27:09,039

thousand feet

719

00:27:12,870 --> 00:27:12,159

birds kites pieces of paper and the

720

00:27:15,830 --> 00:27:12,880

planets

721

00:27:17,909 --> 00:27:15,840

have often been claimed as ufos but a

722

00:27:19,990 --> 00:27:17,919

little bit of logic goes a long way for

723

00:27:20,549 --> 00:27:20,000

those who wish to be persuaded as we

724

00:27:26,789 --> 00:27:20,559

shall see

725

00:27:31,430 --> 00:27:28,950

this man used to spend hours writing

726

00:27:34,230 --> 00:27:31,440

medical findings in longhand

727

00:27:39,669 --> 00:27:34,240

but the new ibm 224 dictating unit cured

728

00:27:45,190 --> 00:27:41,510

this man used to trust countless details

729

00:27:45,200 --> 00:27:52,470

the new ibm 224 never forgets anything

730

00:27:57,269 --> 00:27:54,230

this woman used to take notes while

731

00:28:00,389 --> 00:27:57,279

checking her merchandise

732

00:28:00,950 --> 00:28:00,399

but the new ibm 224 takes stock of

733

00:28:05,190 --> 00:28:00,960

things

734

00:28:07,909 --> 00:28:05,200

quickly and easily at only 28 ounces

735

00:28:09,269 --> 00:28:07,919

this new ibm dictating unit is so small

736

00:28:11,350 --> 00:28:09,279

and so compact

737

00:28:12,870 --> 00:28:11,360

that you can use it anywhere you think

738

00:28:15,190 --> 00:28:12,880

at home on trips

739

00:28:16,389 --> 00:28:15,200

and conferences and of course behind

740

00:28:19,510 --> 00:28:16,399

your desk

741

00:28:20,470 --> 00:28:19,520

whatever you do the new ibm 224 can help

742

00:28:24,870 --> 00:28:20,480

you do it

743

00:28:28,710 --> 00:28:24,880

better here again is cbs reports

744

00:28:31,350 --> 00:28:28,720

ufo friend foe or fantasy

745

00:28:32,789 --> 00:28:31,360

saucer fans are often devoted readers of

746

00:28:34,310 --> 00:28:32,799

science fiction

747

00:28:35,990 --> 00:28:34,320

much of it is written by highly

748

00:28:38,149 --> 00:28:36,000

respected scientists

749

00:28:40,149 --> 00:28:38,159

on an even more popular level the comic

750

00:28:42,630 --> 00:28:40,159

book adventures of flash gordon

751
00:28:44,549 --> 00:28:42,640
confirm saucer buffs in the plausibility

752
00:28:46,549 --> 00:28:44,559
of their beliefs

753
00:28:48,630 --> 00:28:46,559
but all is not peaceful on the planet

754
00:28:50,149 --> 00:28:48,640
earth because the saucer addicts are

755
00:28:52,549 --> 00:28:50,159
divided into cults

756
00:28:54,549 --> 00:28:52,559
groups and sects that range from the

757
00:28:55,669 --> 00:28:54,559
skeptical citers who hope there is a

758
00:28:57,750 --> 00:28:55,679
logical answer

759
00:28:58,870 --> 00:28:57,760
to the true believers who feel sure the

760
00:29:01,909 --> 00:28:58,880
answer is being

761
00:29:03,830 --> 00:29:01,919
covered up by the military establishment

762
00:29:06,230 --> 00:29:03,840
perhaps the farthest out group is made

763
00:29:09,110 --> 00:29:06,240

up of the contactees

764

00:29:11,350 --> 00:29:09,120

they have met talked to or even ridden

765

00:29:13,510 --> 00:29:11,360

with visitors from outer space

766

00:29:14,549 --> 00:29:13,520

here at giant rock in california's high

767

00:29:17,430 --> 00:29:14,559

desert country

768

00:29:18,230 --> 00:29:17,440

one of the pioneer contactees george van

769

00:29:20,470 --> 00:29:18,240

tassel

770

00:29:21,269 --> 00:29:20,480

talked to cbs news correspondent bill

771

00:29:24,230 --> 00:29:21,279

stout

772

00:29:27,190 --> 00:29:24,240

we're riding on a electrostatic magnetic

773

00:29:28,870 --> 00:29:27,200

ship right now on the earth doing 66 000

774

00:29:30,789 --> 00:29:28,880

miles an hour right now in an orbit

775

00:29:31,909 --> 00:29:30,799

around the sun and we're all astronauts

776

00:29:33,990 --> 00:29:31,919

in that respect

777

00:29:36,549 --> 00:29:34,000

have you ever gone up close enough to

778

00:29:39,990 --> 00:29:36,559

touch one to see what was inside

779

00:29:42,870 --> 00:29:40,000

bill in august the 24th of 1953

780

00:29:44,789 --> 00:29:42,880

i went aboard one for about 20 minutes

781

00:29:47,909 --> 00:29:44,799

what was it like what happened

782

00:29:49,110 --> 00:29:47,919

well the interior walls were uh what

783

00:29:51,590 --> 00:29:49,120

looked like a

784

00:29:53,110 --> 00:29:51,600

mother of pearl plastic like we put on

785

00:29:56,870 --> 00:29:53,120

toilet seats and for

786

00:29:58,710 --> 00:29:56,880

a decoration the light inside seemed to

787

00:30:00,310 --> 00:29:58,720

come from everywhere

788

00:30:02,789 --> 00:30:00,320

the instrument panel wasn't like

789

00:30:06,830 --> 00:30:02,799

anything i'd ever seen before and

790

00:30:08,149 --> 00:30:06,840

all of my years since 1927 in the air

791

00:30:09,830 --> 00:30:08,159

game

792

00:30:12,310 --> 00:30:09,840

and they had a compartment in the wall

793

00:30:13,750 --> 00:30:12,320

which uh both cleans and deodorizes

794

00:30:17,269 --> 00:30:13,760

their clothes

795

00:30:19,430 --> 00:30:17,279

by some light process which required no

796

00:30:20,870 --> 00:30:19,440

water soap or detergents or a washing

797

00:30:23,029 --> 00:30:20,880

machine

798

00:30:26,070 --> 00:30:23,039

giant rock for the last 10 years has

799

00:30:27,990 --> 00:30:26,080

been the plymouth rock of the saucer age

800

00:30:30,310 --> 00:30:28,000

saucer conventions were meeting here as

801
00:30:31,990 --> 00:30:30,320
far back as the pre-astronaut era of

802
00:30:32,870 --> 00:30:32,000
black and white television but the

803
00:30:35,909 --> 00:30:32,880
contact-e

804
00:30:37,669 --> 00:30:35,919
storyline was the same then as now it's

805
00:30:39,350 --> 00:30:37,679
hard to tell us in your own words about

806
00:30:41,669 --> 00:30:39,360
your trip to venus how it started

807
00:30:44,789 --> 00:30:41,679
well as i say it started first with a

808
00:30:47,830 --> 00:30:44,799
very decided tingling all over my body

809
00:30:49,029 --> 00:30:47,840
uh this tingling finally extended to the

810
00:30:51,190 --> 00:30:49,039
mind area

811
00:30:52,310 --> 00:30:51,200
and there was a clarification of mine

812
00:30:54,310 --> 00:30:52,320
such as

813
00:30:56,630 --> 00:30:54,320

it's hard to believe i seem to become

814

00:30:58,470 --> 00:30:56,640

one with the entire universe

815

00:30:59,750 --> 00:30:58,480

in the valhalla of interplanetary

816

00:31:01,990 --> 00:30:59,760

contact deeds

817

00:31:03,590 --> 00:31:02,000

the late george adamski is regarded by

818

00:31:05,830 --> 00:31:03,600

his followers as something of a

819

00:31:08,070 --> 00:31:05,840

christopher columbus among outer space

820

00:31:09,590 --> 00:31:08,080

voyagers and you talked to him you asked

821

00:31:11,430 --> 00:31:09,600

i have more or less on

822

00:31:13,269 --> 00:31:11,440

gestures and mental to lefty as if

823

00:31:15,110 --> 00:31:13,279

there's no one taught transfer

824

00:31:17,029 --> 00:31:15,120

he does not speak i mean he didn't at

825

00:31:17,990 --> 00:31:17,039

the time but i have met him since and he

826

00:31:20,470 --> 00:31:18,000

does speak very well

827

00:31:22,310 --> 00:31:20,480

english as well as in the other language

828

00:31:24,470 --> 00:31:22,320

george adamski was successful in

829

00:31:25,110 --> 00:31:24,480

attracting many disciples with film like

830

00:31:27,669 --> 00:31:25,120

this

831

00:31:30,149 --> 00:31:27,679

he called it a spaceship from venus his

832

00:31:31,750 --> 00:31:30,159

critics call it a crude hoax

833

00:31:33,350 --> 00:31:31,760

this film was obtained from one of

834

00:31:35,590 --> 00:31:33,360

adamski's disciples

835

00:31:36,950 --> 00:31:35,600

mrs madeline rodifer who has made her

836

00:31:38,950 --> 00:31:36,960

own ufo film

837

00:31:42,070 --> 00:31:38,960

and who credits adamski with an assist

838

00:31:44,549 --> 00:31:42,080

in her first contact with venusians

839

00:31:45,750 --> 00:31:44,559

some of them have even been to our home

840

00:31:48,310 --> 00:31:45,760

and the day that

841

00:31:49,110 --> 00:31:48,320

the one came into to the yard which i

842

00:31:51,750 --> 00:31:49,120

filmed

843

00:31:53,110 --> 00:31:51,760

on the camera there were three inside

844

00:31:54,789 --> 00:31:53,120

the ship

845

00:31:56,789 --> 00:31:54,799

major kehoe and his nightcap

846

00:31:58,549 --> 00:31:56,799

organization have little regard for the

847

00:32:01,669 --> 00:31:58,559

likes of contactees

848

00:32:04,070 --> 00:32:01,679

rotifer and adamski they lean heavily on

849

00:32:08,070 --> 00:32:04,080

the testimony of professionals

850

00:32:09,990 --> 00:32:08,080

according to the united states air force

851
00:32:12,630 --> 00:32:10,000
in following a policy which is set

852
00:32:15,990 --> 00:32:12,640
probably fairly high in the pentagon

853
00:32:19,269 --> 00:32:16,000
there are about 250 or

854
00:32:21,350 --> 00:32:19,279
300 extremely incompetent

855
00:32:23,909 --> 00:32:21,360
airline and military pilots in this

856
00:32:27,110 --> 00:32:23,919
country they're carrying passengers

857
00:32:29,269 --> 00:32:27,120
they fly across the oceans and

858
00:32:31,190 --> 00:32:29,279
they seem to be quite safe the airlines

859
00:32:33,350 --> 00:32:31,200
let them continue to fly even though

860
00:32:36,310 --> 00:32:33,360
they have reported ufos

861
00:32:38,789 --> 00:32:36,320
now this is not an attack on the air

862
00:32:41,830 --> 00:32:38,799
force spokesman or the project spokesman

863
00:32:44,549 --> 00:32:41,840

they are simply following

864

00:32:46,149 --> 00:32:44,559

to explain away all ufo sightings as

865

00:32:47,830 --> 00:32:46,159

quickly as possible when they become

866

00:32:51,430 --> 00:32:47,840

public

867

00:32:53,669 --> 00:32:51,440

and deny that ufos really exist

868

00:32:55,750 --> 00:32:53,679

the official air force reply has long

869

00:32:57,750 --> 00:32:55,760

been that there is no cover-up

870

00:32:59,110 --> 00:32:57,760

and there are no flying saucers from

871

00:33:01,110 --> 00:32:59,120

outer space

872

00:33:02,870 --> 00:33:01,120

the air force position was detailed in

873

00:33:03,509 --> 00:33:02,880

this book by lieutenant colonel lawrence

874

00:33:05,269 --> 00:33:03,519

tacker

875

00:33:06,710 --> 00:33:05,279

who for many years was connected with

876

00:33:08,630 --> 00:33:06,720

the ufo project

877

00:33:10,149 --> 00:33:08,640

we're kind of in the position of the man

878

00:33:12,630 --> 00:33:10,159

who's uh asked

879

00:33:15,509 --> 00:33:12,640

have you stopped beating your wife this

880

00:33:18,950 --> 00:33:15,519

has been going on for 19 years

881

00:33:21,190 --> 00:33:18,960

the charges are absolutely untrue

882

00:33:23,110 --> 00:33:21,200

you could characterize them as being

883

00:33:26,630 --> 00:33:23,120

senseless and vicious

884

00:33:28,630 --> 00:33:26,640

our critics continually charge the

885

00:33:30,630 --> 00:33:28,640

united states air force is withholding

886

00:33:34,149 --> 00:33:30,640

information from the general public

887

00:33:37,190 --> 00:33:34,159

on this subject this is absolutely

888

00:33:39,029 --> 00:33:37,200

untrue we are not hiding anything we

889

00:33:41,750 --> 00:33:39,039

have nothing to hide

890

00:33:43,509 --> 00:33:41,760

there is nothing in air force files in

891

00:33:45,029 --> 00:33:43,519

either the classified files or the

892

00:33:47,590 --> 00:33:45,039

unclassified files

893

00:33:48,549 --> 00:33:47,600

that come to a conclusion that

894

00:33:51,350 --> 00:33:48,559

spaceships

895

00:33:52,470 --> 00:33:51,360

have visited the earth the air force

896

00:33:55,430 --> 00:33:52,480

investigative unit

897

00:33:56,149 --> 00:33:55,440

is known as project blue book ufo

898

00:33:58,950 --> 00:33:56,159

reports

899

00:34:00,950 --> 00:33:58,960

hoax or serious sightings wind up here

900

00:34:01,830 --> 00:34:00,960

at wright-patterson air field in dayton

901
00:34:04,310 --> 00:34:01,840
ohio

902
00:34:05,029 --> 00:34:04,320
it has studied over ten thousand ufo

903
00:34:07,430 --> 00:34:05,039
sightings

904
00:34:09,430 --> 00:34:07,440
and found explanations for most of them

905
00:34:12,310 --> 00:34:09,440
but about 650

906
00:34:13,109 --> 00:34:12,320
remain unidentified not enough

907
00:34:16,149 --> 00:34:13,119
information

908
00:34:18,069 --> 00:34:16,159
to explain them the hoaxes however are

909
00:34:20,310 --> 00:34:18,079
easy to explain

910
00:34:22,869 --> 00:34:20,320
a rocket nose cone turns out to be a

911
00:34:25,109 --> 00:34:22,879
magnesium anode used by water companies

912
00:34:28,069 --> 00:34:25,119
to protect their pipes

913
00:34:30,710 --> 00:34:28,079

a rock from outer space actually fused

914

00:34:33,190 --> 00:34:30,720

by a high tension line which shorted out

915

00:34:34,149 --> 00:34:33,200

the finder said this was food from outer

916

00:34:35,669 --> 00:34:34,159

space

917

00:34:37,190 --> 00:34:35,679

the food and drug administration

918

00:34:40,230 --> 00:34:37,200

analyzed it as

919

00:34:42,869 --> 00:34:40,240

old-fashioned buckwheat cakes

920

00:34:45,270 --> 00:34:42,879

hoaxes are easy to discount but the air

921

00:34:48,310 --> 00:34:45,280

force insists it treats serious reports

922

00:34:50,389 --> 00:34:48,320

seriously chief scientific consultant of

923

00:34:52,230 --> 00:34:50,399

project blue book is professor j

924

00:34:54,790 --> 00:34:52,240

allen heineck head of the dearborn

925

00:34:57,750 --> 00:34:54,800

observatory at northwestern university

926
00:34:59,910 --> 00:34:57,760
he took on the assignment 18 years ago

927
00:35:00,950 --> 00:34:59,920
he talked with joseph worsha of cbs

928
00:35:03,510 --> 00:35:00,960
reports

929
00:35:05,589 --> 00:35:03,520
is it in the realm of possibility that

930
00:35:07,589 --> 00:35:05,599
there are spaceships someplace in this

931
00:35:09,990 --> 00:35:07,599
universe

932
00:35:11,670 --> 00:35:10,000
well if you put it in the where use the

933
00:35:13,589 --> 00:35:11,680
word possibility and not

934
00:35:14,950 --> 00:35:13,599
probability then i would have to say i

935
00:35:16,230 --> 00:35:14,960
think as any

936
00:35:18,710 --> 00:35:16,240
scientist would have to say it is

937
00:35:21,030 --> 00:35:18,720
certainly possible yes

938
00:35:21,990 --> 00:35:21,040

but i think we must always distinguish

939

00:35:23,990 --> 00:35:22,000

between the

940

00:35:25,510 --> 00:35:24,000

two terms possible and probable a thing

941

00:35:27,510 --> 00:35:25,520

may be scientifically

942

00:35:29,910 --> 00:35:27,520

possible but the probability of its

943

00:35:31,750 --> 00:35:29,920

occurring may be extremely small

944

00:35:34,069 --> 00:35:31,760

to this time there is no proof that i

945

00:35:35,109 --> 00:35:34,079

would con consider valid scientific

946

00:35:37,750 --> 00:35:35,119

proof

947

00:35:38,870 --> 00:35:37,760

that we have been visited by spaceships

948

00:35:42,630 --> 00:35:38,880

i would say

949

00:35:46,150 --> 00:35:42,640

the great majority are

950

00:35:48,550 --> 00:35:46,160

balloons meteors satellites

951
00:35:49,670 --> 00:35:48,560
aircraft seen with the sun glinting off

952
00:35:53,190 --> 00:35:49,680
of them

953
00:35:55,990 --> 00:35:53,200
and birds and then you

954
00:35:58,550 --> 00:35:56,000
then you get into a host of minor things

955
00:36:00,710 --> 00:35:58,560
but in general you can say that the ifos

956
00:36:03,750 --> 00:36:00,720
identified ones have turned out to be

957
00:36:05,829 --> 00:36:03,760
generally quite usual things seen under

958
00:36:06,710 --> 00:36:05,839
unusual circumstances or surprising

959
00:36:10,150 --> 00:36:06,720
circumstances

960
00:36:12,230 --> 00:36:10,160
it's a global thing what it is uh

961
00:36:13,190 --> 00:36:12,240
please don't ask me i i'm still puzzled

962
00:36:15,910 --> 00:36:13,200
this might

963
00:36:18,310 --> 00:36:15,920

you might call me a study in puzzlement

964

00:36:22,630 --> 00:36:18,320

but um

965

00:36:25,190 --> 00:36:22,640

that among the tremendous

966

00:36:26,470 --> 00:36:25,200

noise or static or crud or whatever you

967

00:36:28,310 --> 00:36:26,480

want to call it a

968

00:36:31,190 --> 00:36:28,320

tremendous number of unreliable reports

969

00:36:34,230 --> 00:36:31,200

that are easily explained

970

00:36:36,870 --> 00:36:34,240

there is this residue of most

971

00:36:38,550 --> 00:36:36,880

interesting cases that intrigue me in

972

00:36:39,270 --> 00:36:38,560

the same way that a good mystery story

973

00:36:41,510 --> 00:36:39,280

intrigues me

974

00:36:43,430 --> 00:36:41,520

and i'd like to get the solution i don't

975

00:36:45,750 --> 00:36:43,440

think it is space people

976

00:36:47,030 --> 00:36:45,760

although i would be delighted if it

977

00:36:48,069 --> 00:36:47,040

turned out that way because as an

978

00:36:49,670 --> 00:36:48,079

astronomer

979

00:36:51,270 --> 00:36:49,680

i think it would make astronomy even

980

00:36:53,510 --> 00:36:51,280

more interesting than it is

981

00:36:55,430 --> 00:36:53,520

and as far as the air force is concerned

982

00:36:58,550 --> 00:36:55,440

i can't speak for them of course

983

00:37:01,270 --> 00:36:58,560

but i should imagine that if

984

00:37:02,710 --> 00:37:01,280

the estab if the existence of spacecraft

985

00:37:03,750 --> 00:37:02,720

were really established

986

00:37:05,829 --> 00:37:03,760

it would really increase the

987

00:37:06,230 --> 00:37:05,839

appropriations of the air force but how

988

00:37:09,349 --> 00:37:06,240

do you

989

00:37:11,829 --> 00:37:09,359

answer the people who are pretty

990

00:37:12,470 --> 00:37:11,839

competent careful cautious probing

991

00:37:15,430 --> 00:37:12,480

people

992

00:37:17,270 --> 00:37:15,440

pilots radar trackers those are

993

00:37:18,470 --> 00:37:17,280

particularly the people that i like to

994

00:37:21,109 --> 00:37:18,480

talk to

995

00:37:21,990 --> 00:37:21,119

because they have they understand what

996

00:37:23,910 --> 00:37:22,000

angular rates are

997

00:37:25,190 --> 00:37:23,920

they understand scientific terminology i

998

00:37:27,030 --> 00:37:25,200

can ask them what was the altitude in

999

00:37:29,030 --> 00:37:27,040

azimuth when you first saw

1000

00:37:30,390 --> 00:37:29,040

what was its azimuth and altitude when

1001
00:37:32,630 --> 00:37:30,400
it disappeared

1002
00:37:33,589 --> 00:37:32,640
uh what was this what was its angular

1003
00:37:35,030 --> 00:37:33,599
acceleration

1004
00:37:36,870 --> 00:37:35,040
they can give you an intelligent answer

1005
00:37:38,150 --> 00:37:36,880
to things like that what is your answer

1006
00:37:39,910 --> 00:37:38,160
to the people who

1007
00:37:41,829 --> 00:37:39,920
are sure there are spaceships and they

1008
00:37:42,790 --> 00:37:41,839
say that you and the air force are in

1009
00:37:44,230 --> 00:37:42,800
cahoots

1010
00:37:46,150 --> 00:37:44,240
first of all this business about being

1011
00:37:47,270 --> 00:37:46,160
in cahoots is just simply a downright

1012
00:37:49,510 --> 00:37:47,280
falsehood

1013
00:37:50,550 --> 00:37:49,520

and if they insist that space vehicles

1014

00:37:53,670 --> 00:37:50,560

exist i say

1015

00:37:55,990 --> 00:37:53,680

fine the burden of proof is on you

1016

00:37:58,069 --> 00:37:56,000

how thin is the dividing line between

1017

00:38:00,630 --> 00:37:58,079

science and science fiction

1018

00:38:01,990 --> 00:38:00,640

what do we know of outer space is there

1019

00:38:04,550 --> 00:38:02,000

anyone out there

1020

00:38:05,190 --> 00:38:04,560

and are they headed our way that part of

1021

00:38:09,190 --> 00:38:05,200

the story

1022

00:38:12,069 --> 00:38:09,200

in a moment let's try a speed of say 10

1023

00:38:13,750 --> 00:38:12,079

knots and a rudder angle of 27 degrees

1024

00:38:15,750 --> 00:38:13,760

and check on that tactical diameter

1025

00:38:16,550 --> 00:38:15,760

these navy men are asking a machine to

1026

00:38:22,790 --> 00:38:16,560

solve a most

1027

00:38:27,430 --> 00:38:24,950

find the red green and violet try

1028

00:38:29,430 --> 00:38:27,440

stimulus at the same time miles away

1029

00:38:36,069 --> 00:38:29,440

these chemists are asking it to work on

1030

00:38:41,349 --> 00:38:38,230

somewhere else the same thing they're

1031

00:38:43,990 --> 00:38:41,359

all sharing a powerful ibm computer

1032

00:38:44,870 --> 00:38:44,000

50 companies can now use one computer at

1033

00:38:47,349 --> 00:38:44,880

one time

1034

00:38:47,990 --> 00:38:47,359

and all 50 get their answers immediately

1035

00:38:50,550 --> 00:38:48,000

this is

1036

00:38:52,230 --> 00:38:50,560

time sharing you don't need to own the

1037

00:38:55,990 --> 00:38:52,240

computer or go where it is

1038

00:38:58,230 --> 00:38:56,000

or be an experienced computer user

1039

00:39:00,310 --> 00:38:58,240

just rent one of these and you're in

1040

00:39:02,310 --> 00:39:00,320

command of the distant computer

1041

00:39:04,310 --> 00:39:02,320

suppose you're blending a new lipstick

1042

00:39:11,270 --> 00:39:04,320

calculating color quantities can take

1043

00:39:15,270 --> 00:39:13,270

or you want to know how large a rudder

1044

00:39:16,069 --> 00:39:15,280

is needed to maneuver a ship before

1045

00:39:17,829 --> 00:39:16,079

building it

1046

00:39:20,230 --> 00:39:17,839

analyzing the data collected from this

1047

00:39:21,510 --> 00:39:20,240

navy scale model takes days to do by

1048

00:39:24,630 --> 00:39:21,520

hand

1049

00:39:26,710 --> 00:39:24,640

but now you can swing around

1050

00:39:28,230 --> 00:39:26,720

type in the data and have the answer

1051
00:39:30,310 --> 00:39:28,240
back in seconds

1052
00:39:32,710 --> 00:39:30,320
your question goes out over ordinary

1053
00:39:34,790 --> 00:39:32,720
telephone line into the central computer

1054
00:39:36,790 --> 00:39:34,800
along with the questions of anyone else

1055
00:39:39,349 --> 00:39:36,800
who has a problem at that very moment

1056
00:39:40,790 --> 00:39:39,359
the computer is so incredibly fast that

1057
00:39:43,990 --> 00:39:40,800
answers are flashed back

1058
00:39:46,870 --> 00:39:44,000
almost before the fingers leave the keys

1059
00:39:47,510 --> 00:39:46,880
with this time sharing system an ibm

1060
00:39:58,140 --> 00:39:47,520
computer

1061
00:40:07,750 --> 00:40:05,140
[Music]

1062
00:40:11,670 --> 00:40:07,760
[Applause]

1063
00:40:14,470 --> 00:40:11,680

cbs reports ufo friend foe or fantasy

1064

00:40:16,630 --> 00:40:14,480

continues with walter cronkite much of

1065

00:40:19,030 --> 00:40:16,640

science when we look at it close up

1066

00:40:21,190 --> 00:40:19,040

looks like fiction those who charge a

1067

00:40:23,430 --> 00:40:21,200

conspiracy is being carried on by

1068

00:40:25,270 --> 00:40:23,440

scientists in the military to cover up

1069

00:40:28,710 --> 00:40:25,280

visitations from outer space

1070

00:40:30,950 --> 00:40:28,720

use that charge to explain why no ufos

1071

00:40:32,309 --> 00:40:30,960

have been reported by our space defense

1072

00:40:34,630 --> 00:40:32,319

system

1073

00:40:36,870 --> 00:40:34,640

well this is a dangerous game like

1074

00:40:39,030 --> 00:40:36,880

yelling fire in a crowded theater

1075

00:40:41,750 --> 00:40:39,040

for in this hydrogen bomb and missile

1076
00:40:43,109 --> 00:40:41,760
age the air force has the job of turning

1077
00:40:45,190 --> 00:40:43,119
the unidentified

1078
00:40:47,109 --> 00:40:45,200
into identified objects in a matter of

1079
00:40:49,670 --> 00:40:47,119
moments there's no time for

1080
00:40:51,829 --> 00:40:49,680
theory and conjecture because any

1081
00:40:53,910 --> 00:40:51,839
unidentified object would sound warning

1082
00:40:55,270 --> 00:40:53,920
klaxons around the world

1083
00:40:57,589 --> 00:40:55,280
thousands of people would have to know

1084
00:40:58,150 --> 00:40:57,599
about it instantly it's literally true

1085
00:41:01,349 --> 00:40:58,160
that

1086
00:41:03,270 --> 00:41:01,359
what we don't know could kill us cbs

1087
00:41:06,870 --> 00:41:03,280
news correspondent bill stout reports

1088
00:41:08,550 --> 00:41:06,880

from colorado springs

1089

00:41:10,309 --> 00:41:08,560

this is where they watch everything that

1090

00:41:13,829 --> 00:41:10,319

flies over or close to

1091

00:41:14,309 --> 00:41:13,839

north america the combat operations

1092

00:41:16,309 --> 00:41:14,319

center

1093

00:41:18,309 --> 00:41:16,319

for norad the north american air defense

1094

00:41:20,150 --> 00:41:18,319

command thousands of items of

1095

00:41:20,790 --> 00:41:20,160

information pour in here from radar

1096

00:41:23,270 --> 00:41:20,800

stations

1097

00:41:24,790 --> 00:41:23,280

outposts ships and aircraft scattered

1098

00:41:27,270 --> 00:41:24,800

all across the hemisphere

1099

00:41:28,470 --> 00:41:27,280

data that's sorted and displayed on this

1100

00:41:30,390 --> 00:41:28,480

screen

1101

00:41:32,230 --> 00:41:30,400

all routine flights commercial and

1102

00:41:34,230 --> 00:41:32,240

private are filtered out

1103

00:41:35,910 --> 00:41:34,240

those of special interest to air defense

1104

00:41:38,790 --> 00:41:35,920

are shown as arrows

1105

00:41:40,710 --> 00:41:38,800

yellow is the strategic air command

1106

00:41:41,270 --> 00:41:40,720

green is for special interest flights

1107

00:41:44,230 --> 00:41:41,280

such as

1108

00:41:45,670 --> 00:41:44,240

president johnson's plane orange is

1109

00:41:47,750 --> 00:41:45,680

unknown

1110

00:41:48,790 --> 00:41:47,760

after they're identified that color is

1111

00:41:51,670 --> 00:41:48,800

changed

1112

00:41:52,950 --> 00:41:51,680

red is hostile a color used so far only

1113

00:41:54,870 --> 00:41:52,960

in practice

1114

00:41:56,470 --> 00:41:54,880

all this and much more goes into the

1115

00:41:57,349 --> 00:41:56,480

decisions that are made right here in

1116

00:41:59,750 --> 00:41:57,359

this room

1117

00:42:00,790 --> 00:41:59,760

a 24-hour watch kept by men of the air

1118

00:42:03,910 --> 00:42:00,800

force army

1119

00:42:05,109 --> 00:42:03,920

navy and canada they see everything

1120

00:42:07,670 --> 00:42:05,119

that's in the sky

1121

00:42:08,710 --> 00:42:07,680

they have to and one of them is captain

1122

00:42:10,790 --> 00:42:08,720

gary reese

1123

00:42:12,230 --> 00:42:10,800

an air force radar officer with the air

1124

00:42:14,309 --> 00:42:12,240

defense command

1125

00:42:15,270 --> 00:42:14,319

is that right captain you see everything

1126

00:42:16,950 --> 00:42:15,280

that's up there

1127

00:42:18,790 --> 00:42:16,960

yes that's right bill but the

1128

00:42:19,670 --> 00:42:18,800

characteristics of our present radar

1129

00:42:22,710 --> 00:42:19,680

system

1130

00:42:24,630 --> 00:42:22,720

any object which has reflective surfaces

1131

00:42:26,630 --> 00:42:24,640

and which stays within our radar

1132

00:42:28,390 --> 00:42:26,640

coverage which is virtually every square

1133

00:42:30,790 --> 00:42:28,400

foot of the united states

1134

00:42:32,309 --> 00:42:30,800

will be painted on our radar screens but

1135

00:42:34,470 --> 00:42:32,319

how good are you captain

1136

00:42:35,750 --> 00:42:34,480

how large an object can you see if it is

1137

00:42:38,870 --> 00:42:35,760

reflective

1138

00:42:40,150 --> 00:42:38,880

and let's say larger than a watermelon

1139

00:42:42,069 --> 00:42:40,160

is a crude example

1140

00:42:44,150 --> 00:42:42,079

and within our radar coverage we should

1141

00:42:46,550 --> 00:42:44,160

paint it you talk about the

1142

00:42:47,910 --> 00:42:46,560

reflective properties of an object in

1143

00:42:50,390 --> 00:42:47,920

the sky

1144

00:42:52,069 --> 00:42:50,400

is it possible captain that there are

1145

00:42:54,230 --> 00:42:52,079

things up there

1146

00:42:55,670 --> 00:42:54,240

made of material your radar will not

1147

00:42:58,950 --> 00:42:55,680

pick up

1148

00:43:00,390 --> 00:42:58,960

so far as we know all flying objects are

1149

00:43:03,349 --> 00:43:00,400

composed of materials

1150

00:43:04,950 --> 00:43:03,359

which are aerodynamic and which do have

1151

00:43:08,309 --> 00:43:04,960

a reflective surface

1152

00:43:10,390 --> 00:43:08,319

upon which radar waves can be bounced

1153

00:43:11,510 --> 00:43:10,400

it's possible that there are other types

1154

00:43:14,069 --> 00:43:11,520

of material

1155

00:43:15,910 --> 00:43:14,079

however i doubt it has there ever been a

1156

00:43:17,829 --> 00:43:15,920

report of a flying saucer captain that

1157

00:43:18,630 --> 00:43:17,839

was translated into hard information

1158

00:43:21,430 --> 00:43:18,640

right here

1159

00:43:23,030 --> 00:43:21,440

a plot on the board in this room i don't

1160

00:43:25,430 --> 00:43:23,040

think so bill

1161

00:43:27,109 --> 00:43:25,440

for the reason that these sightings have

1162

00:43:29,990 --> 00:43:27,119

never been substantiated

1163

00:43:31,109 --> 00:43:30,000

and could not be translated into hard

1164

00:43:33,030 --> 00:43:31,119

radar return

1165

00:43:34,710 --> 00:43:33,040

figures there have been sightings then

1166

00:43:38,550 --> 00:43:34,720

but they turned out to be other things

1167

00:43:41,349 --> 00:43:38,560

airplanes or balloons but never a saucer

1168

00:43:41,910 --> 00:43:41,359

you see everything up to roughly 100 000

1169

00:43:44,390 --> 00:43:41,920

feet

1170

00:43:46,550 --> 00:43:44,400

yes that's right up to approximately 100

1171

00:43:50,470 --> 00:43:46,560

000 feet at which point the space

1172

00:43:53,750 --> 00:43:52,390

the space tracking network also in

1173

00:43:55,750 --> 00:43:53,760

colorado springs

1174

00:43:58,150 --> 00:43:55,760

is charged with tracking and logging

1175

00:43:58,950 --> 00:43:58,160

every object that moves in space around

1176

00:44:00,950 --> 00:43:58,960

the earth

1177

00:44:02,550 --> 00:44:00,960

from a hundred thousand feet to two

1178

00:44:04,790 --> 00:44:02,560

thousand miles

1179

00:44:06,710 --> 00:44:04,800

bill stout asked major albert morse just

1180

00:44:10,230 --> 00:44:06,720

how good the surveillance is

1181

00:44:13,510 --> 00:44:10,240

as an example of some of our precision

1182

00:44:15,430 --> 00:44:13,520

we have here a photo of

1183

00:44:16,790 --> 00:44:15,440

a object re-entering the earth's

1184

00:44:18,470 --> 00:44:16,800

atmosphere

1185

00:44:20,790 --> 00:44:18,480

uh through our programs we were able to

1186

00:44:22,069 --> 00:44:20,800

predict a precise time that this was

1187

00:44:25,190 --> 00:44:22,079

going to happen

1188

00:44:26,710 --> 00:44:25,200

and notified a a particular agency

1189

00:44:28,950 --> 00:44:26,720

who then went out with a camera and was

1190

00:44:31,589 --> 00:44:28,960

able to obtain this photograph

1191

00:44:32,710 --> 00:44:31,599

what altitude uh this is just entering

1192

00:44:34,069 --> 00:44:32,720

the earth's atmosphere

1193

00:44:35,750 --> 00:44:34,079

somewhere around four hundred thousand

1194

00:44:37,589 --> 00:44:35,760

feet in

1195

00:44:39,109 --> 00:44:37,599

keeping track on this board you follow

1196

00:44:41,670 --> 00:44:39,119

not only ours but

1197

00:44:44,790 --> 00:44:41,680

russian canadian french yes sir

1198

00:44:46,630 --> 00:44:44,800

everything that has been launched so far

1199

00:44:49,270 --> 00:44:46,640

could there be objects in the heavens

1200

00:44:51,670 --> 00:44:49,280

that you cannot see

1201

00:44:52,710 --> 00:44:51,680

uh yes sir there possibly could be

1202

00:44:56,230 --> 00:44:52,720

however if they

1203

00:44:58,390 --> 00:44:56,240

do have a reflectivity uh to a radar

1204

00:44:59,589 --> 00:44:58,400

and obey the physical properties these

1205

00:45:02,309 --> 00:44:59,599

can be tracked

1206

00:45:02,710 --> 00:45:02,319

by our system how far out can you see

1207

00:45:05,430 --> 00:45:02,720

and

1208

00:45:06,309 --> 00:45:05,440

how small an object could you see well

1209

00:45:08,470 --> 00:45:06,319

our general

1210

00:45:09,829 --> 00:45:08,480

limits are a one square meter target at

1211

00:45:11,030 --> 00:45:09,839

approximately two thousand nautical

1212

00:45:13,990 --> 00:45:11,040

miles

1213

00:45:15,910 --> 00:45:14,000

if radar has not picked up any ufos what

1214

00:45:17,990 --> 00:45:15,920

then of the argument that they are not

1215

00:45:20,550 --> 00:45:18,000

made of earthly material sensitive

1216

00:45:22,230 --> 00:45:20,560

to radar reflections while most saucer

1217

00:45:24,390 --> 00:45:22,240

sightings report bright lights

1218

00:45:26,069 --> 00:45:24,400

which should be picked up by cameras and

1219

00:45:27,510 --> 00:45:26,079

light sensitive film

1220

00:45:29,990 --> 00:45:27,520

the smithsonian astrophysical

1221

00:45:31,510 --> 00:45:30,000

observatory has a network of 16

1222

00:45:33,109 --> 00:45:31,520

automatic camera stations in the

1223

00:45:35,190 --> 00:45:33,119

midwestern united states

1224

00:45:39,510 --> 00:45:35,200

that covers approximately three hundred

1225

00:45:43,829 --> 00:45:41,750

we asked dr robert mccroskey director of

1226
00:45:47,190 --> 00:45:43,839
sao's prairie meteorite network

1227
00:45:50,309 --> 00:45:47,200
to show us how it works

1228
00:45:52,630 --> 00:45:50,319
this is a one-sixth model

1229
00:45:53,589 --> 00:45:52,640
the actual building is six feet by six

1230
00:45:56,230 --> 00:45:53,599
feet uh

1231
00:45:56,630 --> 00:45:56,240
it has in it four cameras which appear

1232
00:45:59,109 --> 00:45:56,640
through

1233
00:45:59,670 --> 00:45:59,119
the windows in the roof and these are

1234
00:46:03,670 --> 00:45:59,680
aerial

1235
00:46:04,150 --> 00:46:03,680
mapping cameras they have 45 degrees

1236
00:46:06,390 --> 00:46:04,160
from

1237
00:46:07,750 --> 00:46:06,400
center to corner between the four

1238
00:46:10,150 --> 00:46:07,760

cameras they cover

1239

00:46:11,910 --> 00:46:10,160

essentially the entire sky above 10

1240

00:46:15,349 --> 00:46:11,920

degrees elevation

1241

00:46:15,750 --> 00:46:15,359

the station is operated automatically it

1242

00:46:18,309 --> 00:46:15,760

is

1243

00:46:19,270 --> 00:46:18,319

turned on at nightfall by these light

1244

00:46:22,470 --> 00:46:19,280

sensors

1245

00:46:24,390 --> 00:46:22,480

and turned off again shortly before dawn

1246

00:46:25,670 --> 00:46:24,400

and during this time it photographs

1247

00:46:29,030 --> 00:46:25,680

continuously

1248

00:46:30,630 --> 00:46:29,040

the cameras hold about six weeks supply

1249

00:46:32,950 --> 00:46:30,640

of film

1250

00:46:35,030 --> 00:46:32,960

it's recovered each week and returned to

1251
00:46:36,309 --> 00:46:35,040
us the exposed portion is returned each

1252
00:46:39,750 --> 00:46:36,319
week to us

1253
00:46:40,870 --> 00:46:39,760
we have a photograph here of an

1254
00:46:43,190 --> 00:46:40,880
extremely

1255
00:46:44,470 --> 00:46:43,200
bright object that occurred last

1256
00:46:47,829 --> 00:46:44,480
november

1257
00:46:50,790 --> 00:46:47,839
you see the meteor stretched along the

1258
00:46:53,190 --> 00:46:50,800
straight line it is broken every

1259
00:46:54,710 --> 00:46:53,200
twentieth of a second by a shutter

1260
00:46:55,990 --> 00:46:54,720
the shutter breaks permit us to

1261
00:46:57,910 --> 00:46:56,000
determine the velocity and then the

1262
00:47:00,550 --> 00:46:57,920
orbit of the body

1263
00:47:01,430 --> 00:47:00,560

in the past 15 months working during the

1264

00:47:03,589 --> 00:47:01,440

night time

1265

00:47:05,829 --> 00:47:03,599

during clear nights we have not

1266

00:47:07,589 --> 00:47:05,839

photographed anything

1267

00:47:09,430 --> 00:47:07,599

with cameras that cover essentially the

1268

00:47:13,190 --> 00:47:09,440

entire sky

1269

00:47:14,870 --> 00:47:13,200

that we did not understand dr mccroskey

1270

00:47:17,430 --> 00:47:14,880

does the smithsonian have

1271

00:47:19,430 --> 00:47:17,440

other networks that feed information

1272

00:47:21,990 --> 00:47:19,440

into the whole system

1273

00:47:23,109 --> 00:47:22,000

yes we we have the satellite tracking

1274

00:47:26,309 --> 00:47:23,119

network

1275

00:47:28,630 --> 00:47:26,319

is 12 stations about the world

1276

00:47:31,030 --> 00:47:28,640

at each of these stations we have a

1277

00:47:32,069 --> 00:47:31,040

large specialized camera for tracking

1278

00:47:35,270 --> 00:47:32,079

satellites

1279

00:47:38,870 --> 00:47:35,280

this is a model of one of them here

1280

00:47:42,069 --> 00:47:38,880

in size it's about 10 feet high

1281

00:47:45,190 --> 00:47:42,079

the aperture is 20 inches it's

1282

00:47:47,349 --> 00:47:45,200

f 0.8 this camera

1283

00:47:48,630 --> 00:47:47,359

is built so that it is possible for it

1284

00:47:52,069 --> 00:47:48,640

to track along the

1285

00:47:52,549 --> 00:47:52,079

trajectory of a satellite and can in

1286

00:47:55,670 --> 00:47:52,559

fact

1287

00:47:57,510 --> 00:47:55,680

photograph a six-inch shiny sphere

1288

00:47:58,710 --> 00:47:57,520

at the distance of the moon at the

1289

00:48:00,950 --> 00:47:58,720

distance of the moon

1290

00:48:02,710 --> 00:48:00,960

yes could you show me a picture of

1291

00:48:03,270 --> 00:48:02,720

something that's come from that kind of

1292

00:48:06,069 --> 00:48:03,280

camera

1293

00:48:06,950 --> 00:48:06,079

it's not a meteor photograph but one of

1294

00:48:10,230 --> 00:48:06,960

a satellite

1295

00:48:13,510 --> 00:48:10,240

in fact two satellites this is the

1296

00:48:16,069 --> 00:48:13,520

gemini rendezvous when the

1297

00:48:18,150 --> 00:48:16,079

two gemini capsules were within about

1298

00:48:20,069 --> 00:48:18,160

three miles of each other

1299

00:48:22,790 --> 00:48:20,079

but in all of the pictures that you've

1300

00:48:25,430 --> 00:48:22,800

ever seen also from this type of device

1301
00:48:26,549 --> 00:48:25,440
again nothing has ever shown up in any

1302
00:48:29,190 --> 00:48:26,559
of them

1303
00:48:30,150 --> 00:48:29,200
that somebody would call an unidentified

1304
00:48:31,829 --> 00:48:30,160
flying object

1305
00:48:34,069 --> 00:48:31,839
not that we would call an unidentified

1306
00:48:36,309 --> 00:48:34,079
flying object no

1307
00:48:38,390 --> 00:48:36,319
since there are no bogeys on radar that

1308
00:48:41,030 --> 00:48:38,400
can remain unknown for long

1309
00:48:41,829 --> 00:48:41,040
and there is no photographic evidence

1310
00:48:44,470 --> 00:48:41,839
let's go

1311
00:48:46,230 --> 00:48:44,480
farther out the expanding knowledge of

1312
00:48:48,309 --> 00:48:46,240
what lies beyond our planet

1313
00:48:51,190 --> 00:48:48,319

has made it respectable to speculate

1314

00:48:53,030 --> 00:48:51,200

about the possibility of life elsewhere

1315

00:48:55,349 --> 00:48:53,040

but that knowledge also makes it more

1316

00:48:55,829 --> 00:48:55,359

difficult to conceive of interstellar

1317

00:48:59,750 --> 00:48:55,839

space

1318

00:49:01,990 --> 00:48:59,760

mariner

1319

00:49:03,750 --> 00:49:02,000

flying by venus and taking pictures of

1320

00:49:05,750 --> 00:49:03,760

the surface of mars

1321

00:49:07,589 --> 00:49:05,760

radar signals from earth bounced off

1322

00:49:09,670 --> 00:49:07,599

planetary surfaces and monitored on

1323

00:49:12,230 --> 00:49:09,680

giant antennae like these

1324

00:49:14,069 --> 00:49:12,240

have thus far tended to confirm that if

1325

00:49:17,190 --> 00:49:14,079

there is life there at all

1326

00:49:18,950 --> 00:49:17,200

it is in elementary form not the sort to

1327

00:49:21,910 --> 00:49:18,960

construct ufos for

1328

00:49:23,829 --> 00:49:21,920

exploration of earth as for what lies

1329

00:49:25,990 --> 00:49:23,839

beyond our planetary system

1330

00:49:27,270 --> 00:49:26,000

it's well remember that our sun is a

1331

00:49:29,510 --> 00:49:27,280

tiny star

1332

00:49:31,030 --> 00:49:29,520

placed near the edge of our galaxy the

1333

00:49:33,270 --> 00:49:31,040

milky way

1334

00:49:35,430 --> 00:49:33,280

each of these nebulae are composed of

1335

00:49:37,190 --> 00:49:35,440

millions of suns which might have their

1336

00:49:38,950 --> 00:49:37,200

own planetary systems

1337

00:49:41,109 --> 00:49:38,960

where life at various stages of

1338

00:49:43,589 --> 00:49:41,119

development might exist

1339

00:49:45,270 --> 00:49:43,599

but the nearest star like our sun is

1340

00:49:47,589 --> 00:49:45,280

proxima centauri

1341

00:49:50,069 --> 00:49:47,599

it is a million times farther away from

1342

00:49:52,230 --> 00:49:50,079

earth than the nearest planet

1343

00:49:54,470 --> 00:49:52,240

if it had planets around it and was

1344

00:49:56,309 --> 00:49:54,480

inhabited by intelligent beings capable

1345

00:49:58,470 --> 00:49:56,319

of travel through the galaxy

1346

00:50:01,190 --> 00:49:58,480

they would have to construct spaceships

1347

00:50:03,990 --> 00:50:01,200

that traveled at 670

1348

00:50:04,950 --> 00:50:04,000

million miles per hour the speed of

1349

00:50:06,710 --> 00:50:04,960

light

1350

00:50:08,630 --> 00:50:06,720

a round trip from the vicinity of

1351

00:50:10,470 --> 00:50:08,640

proxima centauri to earth

1352

00:50:13,109 --> 00:50:10,480

would take more than eight and a half

1353

00:50:14,950 --> 00:50:13,119

years of earth time

1354

00:50:16,870 --> 00:50:14,960

so those scientists who are inclined to

1355

00:50:18,309 --> 00:50:16,880

think the universe may abound in

1356

00:50:20,870 --> 00:50:18,319

intelligent life

1357

00:50:22,390 --> 00:50:20,880

tend to believe that god's quarantine as

1358

00:50:23,589 --> 00:50:22,400

some of them call the distance which

1359

00:50:25,670 --> 00:50:23,599

separates us

1360

00:50:27,349 --> 00:50:25,680

will make radio signals the ultimate

1361

00:50:30,549 --> 00:50:27,359

form of communication

1362

00:50:32,069 --> 00:50:30,559

not spaceships great electronic ears

1363

00:50:33,829 --> 00:50:32,079

have enabled man to listen for

1364

00:50:35,589 --> 00:50:33,839

electromagnetic signals from the

1365

00:50:38,870 --> 00:50:35,599

farthest objects in the universe

1366

00:50:41,750 --> 00:50:38,880

that have so far been detected this one

1367

00:50:42,870 --> 00:50:41,760

one 000 feet in diameter in arecibo in

1368

00:50:44,870 --> 00:50:42,880

puerto rico

1369

00:50:47,270 --> 00:50:44,880

is operated by cornell university for

1370

00:50:49,349 --> 00:50:47,280

the advanced research projects agency

1371

00:50:51,430 --> 00:50:49,359

and is engaged in a number of deep space

1372

00:50:53,829 --> 00:50:51,440

and planetary projects

1373

00:50:55,270 --> 00:50:53,839

if we are not alone in the universe

1374

00:50:57,349 --> 00:50:55,280

instruments like this

1375

00:50:58,549 --> 00:50:57,359

pursuing carefully programmed listening

1376

00:51:01,589 --> 00:50:58,559

exercises

1377

00:51:03,109 --> 00:51:01,599

may one day bring us a faithful message

1378

00:51:05,109 --> 00:51:03,119

the astronomers have long been the

1379

00:51:06,710 --> 00:51:05,119

leading theorists on the possibility of

1380

00:51:09,270 --> 00:51:06,720

life in outer space

1381

00:51:11,990 --> 00:51:09,280

astronomer carl sagan is consultant to a

1382

00:51:14,470 --> 00:51:12,000

current air force scientific panel

1383

00:51:15,990 --> 00:51:14,480

astronomer thornton page was on a c i a

1384

00:51:20,390 --> 00:51:16,000

committee that investigated

1385

00:51:24,309 --> 00:51:20,400

ufo reports in 1952 its conclusion

1386

00:51:27,910 --> 00:51:24,319

no evidence of ufos our panel was

1387

00:51:31,349 --> 00:51:27,920

expected to be and i think was objective

1388

00:51:32,309 --> 00:51:31,359

in its approach and tried to evaluate

1389

00:51:34,470 --> 00:51:32,319

all the reports

1390

00:51:35,589 --> 00:51:34,480

without saying they're ridiculous in

1391

00:51:38,309 --> 00:51:35,599

advance

1392

00:51:38,710 --> 00:51:38,319

that has been repeated quite recently

1393

00:51:42,470 --> 00:51:38,720

and that

1394

00:51:44,309 --> 00:51:42,480

is a good reason for talking with carl

1395

00:51:46,069 --> 00:51:44,319

sagan here because

1396

00:51:48,309 --> 00:51:46,079

he's in the same position that i was

1397

00:51:51,430 --> 00:51:48,319

being the only astronomer in a

1398

00:51:54,470 --> 00:51:51,440

similar panel um there is not a single

1399

00:51:58,069 --> 00:51:54,480

uh verified or checked out report

1400

00:51:59,670 --> 00:51:58,079

which uh is at all connectable with uh

1401
00:52:01,349 --> 00:51:59,680
with the possibility of extraterrestrial

1402
00:52:03,109 --> 00:52:01,359
life it doesn't say that i

1403
00:52:05,030 --> 00:52:03,119
i think i stressed your life is

1404
00:52:06,230 --> 00:52:05,040
impossible quite the contrary i think

1405
00:52:07,829 --> 00:52:06,240
that

1406
00:52:09,990 --> 00:52:07,839
many of the stars in the sky have

1407
00:52:11,589 --> 00:52:10,000
planetary systems we know enough now

1408
00:52:15,270 --> 00:52:11,599
about the origin of life to

1409
00:52:17,670 --> 00:52:15,280
make it appear likely that life arises

1410
00:52:18,549 --> 00:52:17,680
naturally on the vast bulk of these

1411
00:52:20,710 --> 00:52:18,559
planets

1412
00:52:22,150 --> 00:52:20,720
uh it's possible but by no means certain

1413
00:52:24,390 --> 00:52:22,160

that life

1414

00:52:25,589 --> 00:52:24,400

on many of these planets evolves into

1415

00:52:28,950 --> 00:52:25,599

beings which are

1416

00:52:30,710 --> 00:52:28,960

uh as advanced as we or more advanced

1417

00:52:31,589 --> 00:52:30,720

uh and i don't see any reason why we

1418

00:52:33,430 --> 00:52:31,599

can't imagine that there are

1419

00:52:34,390 --> 00:52:33,440

civilizations thousands or millions of

1420

00:52:36,390 --> 00:52:34,400

years in advance

1421

00:52:37,430 --> 00:52:36,400

of ourselves capable of technical feats

1422

00:52:39,270 --> 00:52:37,440

that we

1423

00:52:40,470 --> 00:52:39,280

we can hardly imagine if you would

1424

00:52:43,349 --> 00:52:40,480

believe as

1425

00:52:45,589 --> 00:52:43,359

as the flying saucer cultists would have

1426

00:52:47,670 --> 00:52:45,599

us believe

1427

00:52:49,109 --> 00:52:47,680

the the majority of the sorcerer reports

1428

00:52:50,630 --> 00:52:49,119

are due to their visitations then you

1429

00:52:52,630 --> 00:52:50,640

have a very strange situation

1430

00:52:54,230 --> 00:52:52,640

that means several spaceships are coming

1431

00:52:55,270 --> 00:52:54,240

to the earth over interstellar distances

1432

00:52:57,109 --> 00:52:55,280

every day

1433

00:52:59,430 --> 00:52:57,119

as if all the anthropologists in the

1434

00:53:02,390 --> 00:52:59,440

world were to converge on one of the

1435

00:53:04,230 --> 00:53:02,400

the andaman islands in the indian ocean

1436

00:53:05,750 --> 00:53:04,240

because they just invented the fishnet

1437

00:53:07,990 --> 00:53:05,760

there or something

1438

00:53:08,870 --> 00:53:08,000

i think it's uh much more reasonable if

1439

00:53:10,710 --> 00:53:08,880

you uh

1440

00:53:12,549 --> 00:53:10,720

if you want to speculate on the

1441

00:53:13,430 --> 00:53:12,559

possibility of of extraterrestrial

1442

00:53:16,549 --> 00:53:13,440

intelligence

1443

00:53:17,910 --> 00:53:16,559

that there are very rare visits from

1444

00:53:19,109 --> 00:53:17,920

extraterrestrials to the earth there's

1445

00:53:21,109 --> 00:53:19,119

no evidence for this

1446

00:53:22,630 --> 00:53:21,119

i just say that's not implausible but

1447

00:53:25,510 --> 00:53:22,640

have several visits a day

1448

00:53:28,470 --> 00:53:25,520

i think is straining credulity i think a

1449

00:53:31,349 --> 00:53:28,480

key to what's behind the uh

1450

00:53:33,190 --> 00:53:31,359

the real belief in flying saucers is most

1451

00:53:35,670 --> 00:53:33,200

easily obtained if you look at the

1452

00:53:37,270 --> 00:53:35,680

contact myths there are several hundred

1453

00:53:38,790 --> 00:53:37,280

people in in the united states who claim

1454

00:53:40,870 --> 00:53:38,800

to have had

1455

00:53:43,109 --> 00:53:40,880

personal contact with the inhabitants of

1456

00:53:44,710 --> 00:53:43,119

flying saucers who have landed

1457

00:53:46,630 --> 00:53:44,720

and if you examine these myths you find

1458

00:53:47,750 --> 00:53:46,640

that there are some peculiar

1459

00:53:51,030 --> 00:53:47,760

regularities

1460

00:53:52,230 --> 00:53:51,040

the inhabitants of saucers are

1461

00:53:54,390 --> 00:53:52,240

benevolent i mean they're really

1462

00:53:57,349 --> 00:53:54,400

concerned for our well-being

1463

00:53:59,910 --> 00:53:57,359

they're omnipotent extremely powerful

1464

00:54:02,790 --> 00:53:59,920

omniscient extremely knowledgeable

1465

00:54:04,390 --> 00:54:02,800

and they often wear long white robes now

1466

00:54:06,069 --> 00:54:04,400

this combination is something i've heard

1467

00:54:07,750 --> 00:54:06,079

in another context this isn't science

1468

00:54:10,630 --> 00:54:07,760

this is religion

1469

00:54:12,069 --> 00:54:10,640

uh and what i suspect is happening is

1470

00:54:15,510 --> 00:54:12,079

this we live in a

1471

00:54:16,630 --> 00:54:15,520

in very unsettled times uh it used to be

1472

00:54:19,990 --> 00:54:16,640

possible to believe

1473

00:54:22,150 --> 00:54:20,000

in a personal benevolent powerful

1474

00:54:23,030 --> 00:54:22,160

all-knowing god who cared about

1475

00:54:25,670 --> 00:54:23,040

individuals

1476

00:54:27,670 --> 00:54:25,680

who you could pray to but now there's

1477

00:54:31,109 --> 00:54:27,680

very few people who really believe that

1478

00:54:33,270 --> 00:54:31,119

i think science for

1479

00:54:36,390 --> 00:54:33,280

good or for ill has destroyed a lot of

1480

00:54:37,910 --> 00:54:36,400

the traditional theologies

1481

00:54:39,190 --> 00:54:37,920

and yet people have the same needs to

1482

00:54:41,510 --> 00:54:39,200

believe that they always did perhaps

1483

00:54:43,990 --> 00:54:41,520

more so because the times we live in

1484

00:54:45,990 --> 00:54:44,000

well the flying saucer myths are a

1485

00:54:48,069 --> 00:54:46,000

really clever compromise

1486

00:54:49,750 --> 00:54:48,079

it's a way of having beings that come

1487

00:54:51,270 --> 00:54:49,760

from the sky that are worried about us

1488

00:54:53,829 --> 00:54:51,280

that are powerful

1489

00:54:55,430 --> 00:54:53,839

um that are going to step in and prevent

1490

00:54:59,030 --> 00:54:55,440

us from destroying ourselves as

1491

00:55:01,349 --> 00:54:59,040

we very well might uh and yet have it in

1492

00:55:03,589 --> 00:55:01,359

the cloak of science so that no one can

1493

00:55:04,230 --> 00:55:03,599

say nonsense that doesn't match science

1494

00:55:07,349 --> 00:55:04,240

it's all

1495

00:55:10,470 --> 00:55:07,359

very pseudo scientific

1496

00:55:12,230 --> 00:55:10,480

i would think that that at least for

1497

00:55:14,470 --> 00:55:12,240

the contact myths and probably for a lot

1498

00:55:17,829 --> 00:55:14,480

of the events of people who just see

1499

00:55:20,870 --> 00:55:17,839

things that understand flying overhead

1500

00:55:21,829 --> 00:55:20,880

that what's involved psychology and

1501
00:55:25,190 --> 00:55:21,839
theology

1502
00:55:27,750 --> 00:55:25,200
and not so much the physical sciences

1503
00:55:29,990 --> 00:55:27,760
so as we have seen scientists think the

1504
00:55:32,710 --> 00:55:30,000
evidence is mounting that life in some

1505
00:55:35,109 --> 00:55:32,720
form exists elsewhere in the universe

1506
00:55:36,390 --> 00:55:35,119
but almost unanimously they find no

1507
00:55:39,510 --> 00:55:36,400
evidence that anything

1508
00:55:40,150 --> 00:55:39,520
out there has come here one thing is

1509
00:55:42,950 --> 00:55:40,160
clear

1510
00:55:44,870 --> 00:55:42,960
you could not keep a spaceship a secret

1511
00:55:46,630 --> 00:55:44,880
too many professionals with too many

1512
00:55:48,390 --> 00:55:46,640
powerful instruments are probing the

1513
00:55:50,069 --> 00:55:48,400

skies these days

1514

00:55:51,829 --> 00:55:50,079

too many journalists could not be

1515

00:55:54,710 --> 00:55:51,839

restrained from trumpeting one of the

1516

00:55:56,950 --> 00:55:54,720

greatest news stories of all time

1517

00:55:59,349 --> 00:55:56,960

it also seems clear that since the

1518

00:56:01,910 --> 00:55:59,359

security of our world is involved in

1519

00:56:03,190 --> 00:56:01,920

converting all ufos immediately into

1520

00:56:05,430 --> 00:56:03,200

ifos

1521

00:56:07,430 --> 00:56:05,440

perhaps these phenomena are properly the

1522

00:56:08,390 --> 00:56:07,440

responsibility of scientists and the

1523

00:56:10,470 --> 00:56:08,400

military

1524

00:56:12,950 --> 00:56:10,480

with periodic reports to the public on

1525

00:56:14,630 --> 00:56:12,960

what they have found if anything

1526

00:56:16,069 --> 00:56:14,640

the rest of us can emulate the

1527

00:56:18,870 --> 00:56:16,079

scientists by keeping an

1528

00:56:22,150 --> 00:56:18,880

open mind since yesterday's fantasy

1529

00:56:24,470 --> 00:56:22,160

sometimes turns into tomorrow's reality

1530

00:56:27,190 --> 00:56:24,480

but we might remember too that while

1531

00:56:30,950 --> 00:56:27,200

fantasy improves science fiction

1532

00:56:33,910 --> 00:56:30,960

science is more often served by facts

1533

00:56:36,710 --> 00:56:33,920

this reporter cronkite for cbs reports

1534

00:56:42,870 --> 00:56:40,789

cbs reports ufo friend foe or fantasy

1535

00:56:44,390 --> 00:56:42,880

has been brought to you by international

1536

00:56:54,570 --> 00:56:44,400

business machines

1537

00:57:00,630 --> 00:56:56,710

[Music]

1538

00:57:02,470 --> 00:57:00,640

cbs reports ufo friend foe or fantasy

1539

00:57:03,750 --> 00:57:02,480

was filmed and edited by the staff of

1540

00:57:06,360 --> 00:57:03,760

cbs reports

1541

00:57:10,829 --> 00:57:06,370

under the supervision and control of cbs

1542

00:57:33,510 --> 00:57:12,410

news

1543

00:57:37,990 --> 00:57:35,910

telescopic film of the galaxies courtesy

1544

00:57:39,510 --> 00:57:38,000

of california institute of technology