

DISCLOSURE *TEAM*

Erling Strand Interview
'The Hessdalen Lights'
Live YouTube **Premiere**
Tuesday November 23rd
12pm PST/3pm EST/8pm UK



1
00:00:04,309 --> 00:00:02,230
so erling thank you very much for

2
00:00:07,030 --> 00:00:04,319
joining me today how are you

3
00:00:08,710 --> 00:00:07,040
i'm fine thank you very nice to be part

4
00:00:10,390 --> 00:00:08,720
of your show too

5
00:00:12,070 --> 00:00:10,400
thank you i really wanted to speak to

6
00:00:15,030 --> 00:00:12,080
you for quite some time because i find

7
00:00:16,550 --> 00:00:15,040
the hestalin lights um such a a

8
00:00:19,029 --> 00:00:16,560
phenomenal

9
00:00:21,189 --> 00:00:19,039
part of i suppose the ufo subjects but

10
00:00:23,269 --> 00:00:21,199
also part of science as well

11
00:00:24,790 --> 00:00:23,279
um but before we talk about the lights

12
00:00:27,269 --> 00:00:24,800
would you be able to give us a

13
00:00:29,589 --> 00:00:27,279

background on yourself please

14

00:00:34,630 --> 00:00:29,599

yes uh i'm

15

00:00:35,670 --> 00:00:34,640

just now working at astral university

16

00:00:40,150 --> 00:00:35,680

college

17

00:00:41,590 --> 00:00:40,160

and i my primary work is doing lecturing

18

00:00:45,029 --> 00:00:41,600

in

19

00:00:48,150 --> 00:00:45,039

technology so that's

20

00:00:50,229 --> 00:00:48,160

so i'm teaching students on different

21

00:00:52,150 --> 00:00:50,239

topics

22

00:00:55,029 --> 00:00:52,160

i also

23

00:00:57,430 --> 00:00:55,039

run this project testdown which we will

24

00:00:59,189 --> 00:00:57,440

talk about

25

00:01:00,470 --> 00:00:59,199

and uh

26

00:01:03,349 --> 00:01:00,480

i also

27

00:01:07,990 --> 00:01:03,359

try to involve some of my students in my

28

00:01:10,310 --> 00:01:08,000

project well backs but my my basic uh

29

00:01:14,710 --> 00:01:10,320

income is from my lecturing at the

30

00:01:17,429 --> 00:01:14,720

university college i say fabulous um and

31

00:01:19,030 --> 00:01:17,439

so with regards to hess stalin um can

32

00:01:21,510 --> 00:01:19,040

you just tell us about what it's like as

33

00:01:22,789 --> 00:01:21,520

a place just to give us a bit of a

34

00:01:26,789 --> 00:01:22,799

picture of it

35

00:01:31,030 --> 00:01:26,799

yes heston is a small valley in norway

36

00:01:34,149 --> 00:01:31,040

it's only 15 kilometers long

37

00:01:35,910 --> 00:01:34,159

and at the most about five kilometers

38

00:01:37,030 --> 00:01:35,920

wide

39

00:01:40,550 --> 00:01:37,040

and

40

00:01:43,670 --> 00:01:40,560

only about a little bit more than 100

41

00:01:45,590 --> 00:01:43,680

people are living there

42

00:01:49,830 --> 00:01:45,600

it's up in the

43

00:01:50,870 --> 00:01:49,840

mountains in the southern part of norway

44

00:01:53,190 --> 00:01:50,880

and

45

00:01:58,149 --> 00:01:53,200

it's

46

00:02:01,510 --> 00:01:58,159

small valley in norway

47

00:02:04,469 --> 00:02:01,520

well i use the word ordinary it's not

48

00:02:06,310 --> 00:02:04,479

ordinary that's that was wrong

49

00:02:08,790 --> 00:02:06,320

name of it

50

00:02:10,790 --> 00:02:08,800

fabulous thank you um

51
00:02:12,630 --> 00:02:10,800
and so with regards to the hairstyle and

52
00:02:13,990 --> 00:02:12,640
lights for anybody that may not have

53
00:02:15,110 --> 00:02:14,000
heard of it before would you be able to

54
00:02:18,390 --> 00:02:15,120
just give us a

55
00:02:21,589 --> 00:02:18,400
breakdown of what it involves

56
00:02:24,710 --> 00:02:21,599
well uh in that valley uh

57
00:02:28,070 --> 00:02:24,720
the inhabitants started to see

58
00:02:29,990 --> 00:02:28,080
bright lights moving just outside their

59
00:02:31,589 --> 00:02:30,000
houses

60
00:02:39,589 --> 00:02:31,599
and

61
00:02:46,229 --> 00:02:43,750
that the high intensity with up to 20

62
00:02:48,869 --> 00:02:46,239
observation a week

63
00:02:51,670 --> 00:02:48,879

started in that small valley

64

00:02:53,509 --> 00:02:51,680

many people saw it and

65

00:02:56,309 --> 00:02:53,519

sometimes there was a little bit too

66

00:02:58,710 --> 00:02:56,319

afraid of course well if you can imagine

67

00:03:00,949 --> 00:02:58,720

you're sitting inside your house

68

00:03:04,229 --> 00:03:00,959

out in the countryside

69

00:03:06,790 --> 00:03:04,239

looking out on the windows

70

00:03:11,350 --> 00:03:06,800

and suddenly there is a

71

00:03:13,750 --> 00:03:11,360

great big light moving outside crossing

72

00:03:15,589 --> 00:03:13,760

your window

73

00:03:17,750 --> 00:03:15,599

i think more people would have been

74

00:03:18,790 --> 00:03:17,760

afraid

75

00:03:22,390 --> 00:03:18,800

so that

76
00:03:23,190 --> 00:03:22,400
went on and people started to talk about

77
00:03:25,030 --> 00:03:23,200
it

78
00:03:28,470 --> 00:03:25,040
and we have

79
00:03:30,110 --> 00:03:28,480
done some study of it we started the

80
00:03:33,910 --> 00:03:30,120
project back in

81
00:03:36,149 --> 00:03:33,920
1983 in fact two years after the whole

82
00:03:40,470 --> 00:03:36,159
thing started well

83
00:03:43,990 --> 00:03:40,480
the the big activity started

84
00:03:48,550 --> 00:03:44,000
it had been going on earlier as well

85
00:03:51,670 --> 00:03:48,560
but not so much as it did back in late

86
00:03:57,110 --> 00:03:54,789
and our study have

87
00:03:59,350 --> 00:03:57,120
we can split that in

88
00:04:00,550 --> 00:03:59,360

split phenomena

89

00:04:02,390 --> 00:04:00,560

in

90

00:04:06,630 --> 00:04:02,400

maybe four

91

00:04:09,580 --> 00:04:06,640

different types which are quite

92

00:04:13,270 --> 00:04:10,630

[Music]

93

00:04:15,830 --> 00:04:13,280

quite different

94

00:04:18,150 --> 00:04:15,840

one type is uh

95

00:04:19,670 --> 00:04:18,160

white or blue

96

00:04:23,909 --> 00:04:19,680

flashes

97

00:04:25,749 --> 00:04:23,919

but they're lasting only

98

00:04:28,710 --> 00:04:25,759

some second or

99

00:04:32,310 --> 00:04:28,720

down to a fraction of a second

100

00:04:36,070 --> 00:04:32,320

so many times it can be hard to see

101
00:04:37,270 --> 00:04:36,080
we was aware of those when we

102
00:04:41,030 --> 00:04:37,280
saw

103
00:04:43,749 --> 00:04:41,040
some lights on a flashing light in in in

104
00:04:46,469 --> 00:04:43,759
our pictures

105
00:04:48,310 --> 00:04:46,479
the second type is

106
00:04:50,950 --> 00:04:48,320
balls of light

107
00:04:55,430 --> 00:04:50,960
with different shapes

108
00:04:56,390 --> 00:04:55,440
different behavior in the way it moves

109
00:05:00,469 --> 00:04:56,400
sometimes

110
00:05:03,909 --> 00:05:00,479
it can move slowly and stop

111
00:05:06,230 --> 00:05:03,919
can be so strong that it has eliminated

112
00:05:09,350 --> 00:05:06,240
the ground beneath it

113
00:05:12,150 --> 00:05:09,360

and then start moving again

114

00:05:14,950 --> 00:05:12,160

and continue for this

115

00:05:16,950 --> 00:05:14,960

about a couple of hours

116

00:05:19,189 --> 00:05:16,960

at the most

117

00:05:22,150 --> 00:05:19,199

it has also been seen

118

00:05:25,270 --> 00:05:22,160

moving very fast

119

00:05:28,870 --> 00:05:25,280

and lasting only some minutes

120

00:05:29,909 --> 00:05:28,880

uh the shape is not always a ball of

121

00:05:31,990 --> 00:05:29,919

light

122

00:05:33,909 --> 00:05:32,000

it can be

123

00:05:35,189 --> 00:05:33,919

all different kinds of

124

00:05:37,270 --> 00:05:35,199

shapes

125

00:05:38,870 --> 00:05:37,280

you can imagine

126
00:05:43,909 --> 00:05:38,880
so

127
00:05:51,430 --> 00:05:47,909
name this type different types

128
00:05:53,830 --> 00:05:51,440
not only ball of light which is moving

129
00:05:57,749 --> 00:05:53,840
differently and and all these different

130
00:06:01,749 --> 00:05:57,759
shapes and speeds and so on

131
00:06:02,950 --> 00:06:01,759
but i stick to the point that we we keep

132
00:06:04,629 --> 00:06:02,960
this in the

133
00:06:07,270 --> 00:06:04,639
big box uh

134
00:06:08,469 --> 00:06:07,280
ball of light

135
00:06:16,230 --> 00:06:08,479
the third

136
00:06:21,189 --> 00:06:16,240
the that's consisting of several lights

137
00:06:23,350 --> 00:06:21,199
uh which seems to stick together

138
00:06:26,710 --> 00:06:23,360

if you can imagine

139

00:06:27,909 --> 00:06:26,720

some kind of clouds of different

140

00:06:30,710 --> 00:06:27,919

lights

141

00:06:33,990 --> 00:06:30,720

different colors

142

00:06:37,670 --> 00:06:34,000

and when this cloud is moving every

143

00:06:45,189 --> 00:06:41,189

this type has also been seen

144

00:06:46,070 --> 00:06:45,199

when it's not completely dark outside

145

00:06:48,870 --> 00:06:46,080

and

146

00:06:52,550 --> 00:06:48,880

those who have seen it they say there is

147

00:06:54,870 --> 00:06:52,560

something black object this light are

148

00:06:57,749 --> 00:06:54,880

connected to

149

00:07:01,430 --> 00:06:57,759

but when it's seen when it's completely

150

00:07:05,110 --> 00:07:01,440

dark we only see the different lights

151
00:07:10,390 --> 00:07:08,150
a little bit around but they stick to

152
00:07:12,870 --> 00:07:10,400
the same place

153
00:07:13,909 --> 00:07:12,880
that was the third one

154
00:07:19,749 --> 00:07:13,919
and

155
00:07:25,350 --> 00:07:22,629
we can say it's it's uh

156
00:07:28,150 --> 00:07:25,360
well i forgot to mention the third one

157
00:07:30,390 --> 00:07:28,160
the different lights can have different

158
00:07:32,309 --> 00:07:30,400
uh colors too

159
00:07:34,710 --> 00:07:32,319
and i also

160
00:07:36,150 --> 00:07:34,720
forgot when i mentioned it

161
00:07:38,950 --> 00:07:36,160
type 2

162
00:07:42,629 --> 00:07:38,960
with a ball of light which are mostly

163
00:07:45,430 --> 00:07:42,639

yellow that can also have another light

164

00:07:47,749 --> 00:07:45,440

attached to it with a different color

165

00:07:50,390 --> 00:07:47,759

mostly red

166

00:07:51,510 --> 00:07:50,400

but the fourth one

167

00:07:52,550 --> 00:07:51,520

that is

168

00:08:16,869 --> 00:07:52,560

a

169

00:08:19,990 --> 00:08:16,879

of those reports

170

00:08:21,430 --> 00:08:20,000

there has also been seen lights in the

171

00:08:22,390 --> 00:08:21,440

daytime

172

00:08:26,869 --> 00:08:22,400

and

173

00:08:29,749 --> 00:08:26,879

that late lights in the daytime is more

174

00:08:32,630 --> 00:08:29,759

similar as the

175

00:08:36,709 --> 00:08:35,350

type 2 with the ball of light

176
00:08:39,110 --> 00:08:36,719
but

177
00:08:42,389 --> 00:08:39,120
the shape

178
00:08:45,590 --> 00:08:42,399
the the form how it looked like

179
00:08:46,550 --> 00:08:45,600
can be really strange

180
00:08:51,509 --> 00:08:46,560
uh

181
00:08:53,670 --> 00:08:51,519
a cube

182
00:08:54,710 --> 00:08:53,680
was uh photographed

183
00:08:55,670 --> 00:08:54,720
and

184
00:08:58,230 --> 00:08:55,680
you can

185
00:09:01,670 --> 00:08:58,240
imagine like a

186
00:09:04,150 --> 00:09:01,680
cube or more maybe rectangular

187
00:09:07,430 --> 00:09:04,160
and one of the sides

188
00:09:09,990 --> 00:09:07,440

was very dark and that size

189

00:09:12,070 --> 00:09:10,000

was towards the sun

190

00:09:12,870 --> 00:09:12,080

so

191

00:09:15,430 --> 00:09:12,880

well

192

00:09:18,870 --> 00:09:15,440

anyway that's uh that's uh

193

00:09:22,870 --> 00:09:18,880

and these these sightings you know

194

00:09:23,750 --> 00:09:22,880

in this small valley only 50 kilometers

195

00:09:25,430 --> 00:09:23,760

long

196

00:09:27,990 --> 00:09:25,440

so

197

00:09:30,630 --> 00:09:28,000

that that's a mystery

198

00:09:33,030 --> 00:09:30,640

that is very much a mystery and so how

199

00:09:34,790 --> 00:09:33,040

did it come to your attention and

200

00:09:39,350 --> 00:09:34,800

and how did you decide

201
00:09:52,230 --> 00:09:40,150

i

202
00:09:53,750 --> 00:09:52,240
and so

203
00:09:56,790 --> 00:09:53,760
many people

204
00:09:58,389 --> 00:09:56,800
there were a lot of articles and and

205
00:10:01,509 --> 00:09:58,399
in the newspaper

206
00:10:02,470 --> 00:10:01,519
and many people went up to the

207
00:10:05,350 --> 00:10:02,480
valley

208
00:10:06,710 --> 00:10:05,360
uh to see it for themselves

209
00:10:09,990 --> 00:10:06,720
and

210
00:10:11,910 --> 00:10:10,000
many people did see it for themselves

211
00:10:13,190 --> 00:10:11,920
i was one of those

212
00:10:15,030 --> 00:10:13,200
uh

213
00:10:18,069 --> 00:10:15,040

we decided a

214

00:10:20,790 --> 00:10:18,079

a group of my uh some of my friends we

215

00:10:21,990 --> 00:10:20,800

decided to go up there and

216

00:10:24,150 --> 00:10:22,000

have a look

217

00:10:25,910 --> 00:10:24,160

see if we could see it

218

00:10:28,389 --> 00:10:25,920

he went out in the

219

00:10:32,870 --> 00:10:28,399

mountain side

220

00:10:34,870 --> 00:10:32,880

you know this is the rural area not

221

00:10:39,829 --> 00:10:34,880

many houses and so on

222

00:10:42,550 --> 00:10:39,839

so we we split in different groups uh we

223

00:10:45,190 --> 00:10:42,560

located each other on different uh

224

00:10:47,990 --> 00:10:45,200

mountains tops and

225

00:10:49,190 --> 00:10:48,000

was looking down into the headstone

226
00:10:51,670 --> 00:10:49,200
valley

227
00:10:53,350 --> 00:10:51,680
and we communicated with walkie talkie

228
00:10:56,310 --> 00:10:53,360
and so on

229
00:10:59,110 --> 00:10:56,320
i believe that if i'm lucky maybe i see

230
00:11:01,030 --> 00:10:59,120
something small light in the mountain

231
00:11:04,870 --> 00:11:01,040
side or something

232
00:11:05,990 --> 00:11:04,880
but what surprised me this was a

233
00:11:07,590 --> 00:11:06,000
big

234
00:11:08,870 --> 00:11:07,600
strong

235
00:11:11,910 --> 00:11:08,880
light

236
00:11:12,829 --> 00:11:11,920
much stronger that i could

237
00:11:16,389 --> 00:11:12,839
ever

238
00:11:17,910 --> 00:11:16,399

imagine and if you think you're standing

239

00:11:20,550 --> 00:11:17,920

there

240

00:11:22,069 --> 00:11:20,560

out in the mountain side

241

00:11:24,710 --> 00:11:22,079

very dark

242

00:11:26,710 --> 00:11:24,720

and suddenly these lights show up

243

00:11:31,269 --> 00:11:26,720

so strong

244

00:11:33,350 --> 00:11:31,279

and it was moving slowly and around

245

00:11:35,269 --> 00:11:33,360

sometimes it

246

00:11:38,230 --> 00:11:35,279

was

247

00:11:41,750 --> 00:11:38,240

spotlight it had spotlight actually

248

00:11:46,069 --> 00:11:44,630

did this continued for one and a half

249

00:11:49,430 --> 00:11:46,079

hour

250

00:11:50,470 --> 00:11:49,440

and i was of course very impressed i was

251
00:11:53,269 --> 00:11:50,480
very

252
00:11:54,870 --> 00:11:53,279
not shocked but i was

253
00:11:56,949 --> 00:11:54,880
then i knew

254
00:11:59,750 --> 00:11:56,959
this was real

255
00:12:02,069 --> 00:11:59,760
when you see that for yourself

256
00:12:06,230 --> 00:12:02,079
yes at that time

257
00:12:10,150 --> 00:12:06,240
i was working as a as a researcher

258
00:12:12,230 --> 00:12:10,160
in the main capital ushlo

259
00:12:14,550 --> 00:12:12,240
and

260
00:12:18,470 --> 00:12:14,560
i think this this

261
00:12:22,790 --> 00:12:21,829
everyone believe that that university

262
00:12:26,110 --> 00:12:22,800
would

263
00:12:29,750 --> 00:12:26,120

start studying or that research

264

00:12:33,269 --> 00:12:29,760

establishment would start stopping but

265

00:12:35,590 --> 00:12:33,279

none did do anything

266

00:12:39,030 --> 00:12:35,600

so i and some

267

00:12:42,230 --> 00:12:39,040

fellows some some friends

268

00:12:44,150 --> 00:12:42,240

we met and discussed what should we do

269

00:12:45,590 --> 00:12:44,160

about it

270

00:12:47,990 --> 00:12:45,600

should we just

271

00:12:50,710 --> 00:12:48,000

have a look and see what's going on we

272

00:12:51,590 --> 00:12:50,720

we we must try to

273

00:12:55,590 --> 00:12:51,600

to

274

00:12:58,310 --> 00:12:55,600

yeah and that's

275

00:12:59,829 --> 00:12:58,320

the start of what we call project

276

00:13:02,949 --> 00:12:59,839

testing

277

00:13:05,430 --> 00:13:02,959

back in 1983

278

00:13:06,949 --> 00:13:05,440

i think very impressive to to see those

279

00:13:09,509 --> 00:13:06,959

kind of things and

280

00:13:11,829 --> 00:13:09,519

for yourself as well so i can imagine it

281

00:13:13,110 --> 00:13:11,839

was you know eye-opening

282

00:13:15,670 --> 00:13:13,120

um so

283

00:13:17,670 --> 00:13:15,680

how did you then plan to study it i mean

284

00:13:20,790 --> 00:13:17,680

obviously you want i assume you wanted

285

00:13:23,110 --> 00:13:20,800

to capture video and photographs but did

286

00:13:25,269 --> 00:13:23,120

you have any other equipment to kind of

287

00:13:26,629 --> 00:13:25,279

measure it or try and figure out what it

288

00:13:29,750 --> 00:13:26,639

was

289

00:13:30,790 --> 00:13:29,760

well yes we did we had a lot of

290

00:13:33,829 --> 00:13:30,800

instruments

291

00:13:36,629 --> 00:13:33,839

in the field work the first field work

292

00:13:38,870 --> 00:13:36,639

which was run in 19 in the winter of

293

00:13:41,110 --> 00:13:38,880

1984.

294

00:13:42,550 --> 00:13:41,120

we planned this field work very

295

00:13:44,629 --> 00:13:42,560

precisely

296

00:13:49,269 --> 00:13:44,639

discussed with different research

297

00:13:52,069 --> 00:13:49,279

establishment in norway and also abroad

298

00:13:54,150 --> 00:13:52,079

and we managed to

299

00:13:55,750 --> 00:13:54,160

we we started the project in the

300

00:13:57,150 --> 00:13:55,760

summertime

301
00:13:58,710 --> 00:13:57,160
in june

302
00:14:02,470 --> 00:13:58,720
1983

303
00:14:05,269 --> 00:14:02,480
and during the autumn we we planned to

304
00:14:08,150 --> 00:14:05,279
have a field work in january and

305
00:14:09,829 --> 00:14:08,160
february 1984

306
00:14:11,430 --> 00:14:09,839
so during that

307
00:14:13,269 --> 00:14:11,440
half a year

308
00:14:16,069 --> 00:14:13,279
we we

309
00:14:17,670 --> 00:14:16,079
start working with getting

310
00:14:18,870 --> 00:14:17,680
people

311
00:14:23,430 --> 00:14:18,880
getting

312
00:14:26,150 --> 00:14:23,440
help from research establishments

313
00:14:29,990 --> 00:14:26,160

getting instruments

314

00:14:33,189 --> 00:14:30,000

we borrowed all the instruments with a

315

00:14:35,509 --> 00:14:33,199

lot of help from from the military and

316

00:14:37,030 --> 00:14:35,519

so on we cooperated with with the

317

00:14:40,069 --> 00:14:37,040

military

318

00:14:42,829 --> 00:14:40,079

so we managed to get a bunch of

319

00:14:47,990 --> 00:14:46,310

instruments which we brought up in the

320

00:14:49,910 --> 00:14:48,000

histone valley

321

00:14:53,590 --> 00:14:49,920

and we had a

322

00:14:56,829 --> 00:14:53,600

small cabin we or or

323

00:14:59,350 --> 00:14:56,839

we on wheels which we put out in in the

324

00:15:00,150 --> 00:14:59,360

field and

325

00:15:02,310 --> 00:15:00,160

had

326

00:15:06,389 --> 00:15:02,320

these instruments running

327

00:15:08,470 --> 00:15:06,399

uh so we measured the the phenomena we

328

00:15:11,430 --> 00:15:08,480

call it the phenomena

329

00:15:13,189 --> 00:15:11,440

in the beginning everyone called

330

00:15:20,870 --> 00:15:13,199

called it ufo

331

00:15:23,030 --> 00:15:20,880

world

332

00:15:26,389 --> 00:15:23,040

but it turned out

333

00:15:29,189 --> 00:15:26,399

when i used that word ufo

334

00:15:31,430 --> 00:15:29,199

in discussing with scientists

335

00:15:33,990 --> 00:15:31,440

at both at the military research

336

00:15:36,629 --> 00:15:34,000

establishment and at the different

337

00:15:38,790 --> 00:15:36,639

universities

338

00:15:42,150 --> 00:15:38,800

the scientists was a little bit

339

00:15:46,150 --> 00:15:42,160

skeptical you know at that time you

340

00:15:50,310 --> 00:15:46,160

shouldn't study ufo

341

00:15:55,269 --> 00:15:50,320

so we decided to change the name

342

00:15:57,670 --> 00:15:55,279

so instead of ufo we call it the heston

343

00:16:00,470 --> 00:15:57,680

phenomena

344

00:16:01,430 --> 00:16:00,480

and after we change the name

345

00:16:05,910 --> 00:16:01,440

it

346

00:16:08,150 --> 00:16:05,920

each

347

00:16:09,509 --> 00:16:08,160

easier to involve

348

00:16:12,069 --> 00:16:09,519

the different

349

00:16:14,949 --> 00:16:12,079

scientists and those

350

00:16:16,230 --> 00:16:14,959

we needed help from

351
00:16:17,829 --> 00:16:16,240
so

352
00:16:19,990 --> 00:16:17,839
during

353
00:16:21,509 --> 00:16:20,000
that month in

354
00:16:24,069 --> 00:16:21,519
in

355
00:16:27,350 --> 00:16:24,079
january and february

356
00:16:27,360 --> 00:16:32,550
we did a lot of different

357
00:16:37,990 --> 00:16:35,590
readings on the instruments and we had

358
00:16:41,350 --> 00:16:38,000
people out looking

359
00:16:42,550 --> 00:16:41,360
for the phenomena and the cameras and so

360
00:16:44,310 --> 00:16:42,560
on

361
00:16:47,110 --> 00:16:44,320
so

362
00:16:49,430 --> 00:16:47,120
we we was lucky we was

363
00:16:53,430 --> 00:16:49,440

at the spot

364

00:17:01,430 --> 00:16:57,749

because well this started uh in in

365

00:17:05,390 --> 00:17:01,440

late november december 1981

366

00:17:08,949 --> 00:17:05,400

and we had the fieldwork in january

367

00:17:12,309 --> 00:17:08,959

1984 that's a long time

368

00:17:14,390 --> 00:17:12,319

but we were lucky because the activity

369

00:17:16,630 --> 00:17:14,400

was very high

370

00:17:20,069 --> 00:17:16,640

all the time

371

00:17:22,309 --> 00:17:20,079

so we managed to during that

372

00:17:23,750 --> 00:17:22,319

nearly one month of

373

00:17:26,789 --> 00:17:23,760

operation

374

00:17:31,990 --> 00:17:26,799

with up to 40 people present

375

00:17:33,669 --> 00:17:32,000

uh we managed to get i think it was 55

376

00:17:35,909 --> 00:17:33,679

um

377

00:17:38,710 --> 00:17:35,919

visual observation

378

00:17:40,390 --> 00:17:38,720

which we defined as the histone

379

00:17:44,549 --> 00:17:40,400

phenomena

380

00:17:48,230 --> 00:17:44,559

actually during that period we got

381

00:17:50,630 --> 00:17:48,240

more than 180 reports

382

00:17:52,710 --> 00:17:50,640

and because we wanted the people to

383

00:17:54,630 --> 00:17:52,720

report everything they

384

00:17:55,909 --> 00:17:54,640

they saw

385

00:17:59,510 --> 00:17:55,919

but we have

386

00:18:01,350 --> 00:17:59,520

examined the different reports after the

387

00:18:02,230 --> 00:18:01,360

field work

388

00:18:05,669 --> 00:18:02,240

and

389

00:18:06,630 --> 00:18:05,679

come to the number of 55

390

00:18:07,590 --> 00:18:06,640

if

391

00:18:11,029 --> 00:18:07,600

with

392

00:18:16,310 --> 00:18:13,190

which are so strange

393

00:18:17,830 --> 00:18:16,320

that it was the heston femina

394

00:18:20,870 --> 00:18:17,840

wow

395

00:18:22,789 --> 00:18:20,880

that's a that's still a big number at 55

396

00:18:24,870 --> 00:18:22,799

for just such a you know the two-month

397

00:18:27,110 --> 00:18:24,880

period and so

398

00:18:30,710 --> 00:18:27,120

during that time did you start forming

399

00:18:34,710 --> 00:18:30,720

any theories or hypotheses early on or

400

00:18:38,870 --> 00:18:38,070

now i hold back because

401
00:18:42,710 --> 00:18:38,880
the

402
00:18:45,430 --> 00:18:42,720
most important thing was to get

403
00:18:47,270 --> 00:18:45,440
more scientific data

404
00:18:51,510 --> 00:18:47,280
so we which

405
00:18:54,950 --> 00:18:51,520
that any theories could build upon

406
00:18:57,909 --> 00:18:54,960
so it's not only free fantasy

407
00:19:00,549 --> 00:18:57,919
we have to have data so that has been

408
00:19:05,110 --> 00:19:00,559
focused all the time

409
00:19:06,710 --> 00:19:05,120
to to get the necessary data

410
00:19:07,750 --> 00:19:06,720
yeah i think that's really interesting

411
00:19:09,669 --> 00:19:07,760
that

412
00:19:12,470 --> 00:19:09,679
i think some people might just really

413
00:19:14,789 --> 00:19:12,480

just really want to know so badly that

414

00:19:17,110 --> 00:19:14,799

they push too quickly to try and get the

415

00:19:19,029 --> 00:19:17,120

answers but i think it like you say it's

416

00:19:21,430 --> 00:19:19,039

the right thing is to get the data take

417

00:19:25,590 --> 00:19:21,440

your time and study it properly

418

00:19:27,270 --> 00:19:25,600

um so did you see much change uh after

419

00:19:30,230 --> 00:19:27,280

those first two months with the

420

00:19:31,590 --> 00:19:30,240

frequency of sightings the the type of

421

00:19:33,669 --> 00:19:31,600

sightings or the data that you were

422

00:19:36,549 --> 00:19:33,679

getting like

423

00:19:41,350 --> 00:19:36,559

how did the uh investigation progress

424

00:19:47,669 --> 00:19:45,270

after the field work in 184

425

00:19:50,789 --> 00:19:47,679

we had a lot of data

426
00:19:53,110 --> 00:19:50,799
we had a lot of meeting discussing the

427
00:19:55,990 --> 00:19:53,120
different data we got

428
00:19:58,549 --> 00:19:56,000
with different scientists

429
00:20:04,070 --> 00:20:01,669
i report a technical report

430
00:20:05,110 --> 00:20:04,080
which people can find

431
00:20:12,950 --> 00:20:05,120
on

432
00:20:18,390 --> 00:20:15,909
my full report is out there

433
00:20:19,590 --> 00:20:18,400
and you can read all about our

434
00:20:21,750 --> 00:20:19,600
measurements

435
00:20:24,390 --> 00:20:21,760
and what we did

436
00:20:27,909 --> 00:20:26,390
we

437
00:20:29,669 --> 00:20:27,919
decided

438
00:20:31,669 --> 00:20:29,679

to go on

439

00:20:34,870 --> 00:20:31,679

another year

440

00:20:37,390 --> 00:20:34,880

do a new field work

441

00:20:39,350 --> 00:20:37,400

the year after in january

442

00:20:41,750 --> 00:20:39,360

1985

443

00:20:43,190 --> 00:20:41,760

which we did

444

00:20:45,990 --> 00:20:43,200

but

445

00:20:49,750 --> 00:20:46,000

it seems that the activity

446

00:20:52,950 --> 00:20:49,760

had gone down to a much lower level

447

00:20:56,710 --> 00:20:52,960

so during the 1985

448

00:20:59,909 --> 00:20:56,720

field work with a lot of people as usual

449

00:21:00,830 --> 00:20:59,919

better equipped and everything he was

450

00:21:06,789 --> 00:21:00,840

better

451
00:21:08,870 --> 00:21:06,799
more bad weather as well i should should

452
00:21:09,669 --> 00:21:08,880
point out that

453
00:21:10,549 --> 00:21:09,679
but

454
00:21:14,549 --> 00:21:10,559
we

455
00:21:17,909 --> 00:21:14,559
only got one good observation

456
00:21:18,789 --> 00:21:17,919
so sadly that was too little

457
00:21:24,549 --> 00:21:18,799
to

458
00:21:27,510 --> 00:21:24,559
make a new field work the year after

459
00:21:31,270 --> 00:21:27,520
so but anyway we got the data we had

460
00:21:33,430 --> 00:21:31,280
mostly from 1984 though

461
00:21:34,310 --> 00:21:33,440
and we wanted to

462
00:21:38,230 --> 00:21:34,320
get

463
00:21:41,669 --> 00:21:38,240

the science the community more involved

464

00:21:42,950 --> 00:21:41,679

so we started to talk about that and and

465

00:21:45,909 --> 00:21:42,960

so on

466

00:21:45,919 --> 00:21:49,590

sorry come on yep

467

00:21:53,669 --> 00:21:51,590

so when did it really change and

468

00:21:54,549 --> 00:21:53,679

progress any further like did you have

469

00:21:57,110 --> 00:21:54,559

any

470

00:21:58,470 --> 00:21:57,120

uh collaborations with researchers or

471

00:22:02,310 --> 00:21:58,480

even other countries

472

00:22:05,430 --> 00:22:02,320

over say the 80s you know because

473

00:22:07,430 --> 00:22:05,440

or or what point did you

474

00:22:08,870 --> 00:22:07,440

take it to the next step

475

00:22:12,549 --> 00:22:08,880

well in the

476

00:22:16,390 --> 00:22:12,559

80s i mainly discussed with

477

00:22:20,470 --> 00:22:16,400

the norwegian scientists

478

00:22:22,789 --> 00:22:20,480

we had some few communication with

479

00:22:26,070 --> 00:22:22,799

scientists abroad too but

480

00:22:28,870 --> 00:22:26,080

the activity the the work was done by

481

00:22:31,350 --> 00:22:28,880

norwegian scientists

482

00:22:34,950 --> 00:22:31,360

with this the actually the project went

483

00:22:40,630 --> 00:22:34,960

down to a very low level because we we

484

00:22:45,070 --> 00:22:41,590

but

485

00:22:47,510 --> 00:22:45,080

it seems that the activity still

486

00:22:50,310 --> 00:22:47,520

continued up there

487

00:22:54,789 --> 00:22:50,320

even though in a much lower level than

488

00:22:58,230 --> 00:22:54,799

it was in the early 80s

489

00:22:59,950 --> 00:22:58,240

i discovered that when i was visiting

490

00:23:03,830 --> 00:22:59,960

heston in

491

00:23:07,590 --> 00:23:03,840

1993 that's eight years after our last

492

00:23:09,990 --> 00:23:07,600

field work which we had in 1985

493

00:23:12,230 --> 00:23:10,000

i had a presentation of the

494

00:23:15,190 --> 00:23:12,240

inhabitants up there because they wanted

495

00:23:17,350 --> 00:23:15,200

to know what had happened since we had

496

00:23:20,710 --> 00:23:17,360

this field work

497

00:23:23,750 --> 00:23:20,720

so i went up there and told them about

498

00:23:26,310 --> 00:23:23,760

had been to different conferences there

499

00:23:29,270 --> 00:23:26,320

are a lot different me

500

00:23:31,270 --> 00:23:29,280

foreign media started to

501
00:23:33,270 --> 00:23:31,280
tell about it

502
00:23:35,669 --> 00:23:33,280
and so on

503
00:23:36,549 --> 00:23:35,679
and

504
00:23:39,029 --> 00:23:36,559
then

505
00:23:40,630 --> 00:23:39,039
during my presentation or after my

506
00:23:43,990 --> 00:23:40,640
presentation

507
00:23:45,510 --> 00:23:44,000
the people said well it still continues

508
00:23:47,990 --> 00:23:45,520
they said

509
00:23:51,110 --> 00:23:48,000
i was very surprised because i hadn't

510
00:23:51,830 --> 00:23:51,120
heard anything about it and i asked well

511
00:24:11,029 --> 00:23:51,840
i

512
00:24:14,630 --> 00:24:11,039
and

513
00:24:17,669 --> 00:24:14,640

people come up with all different

514

00:24:18,470 --> 00:24:17,679

stupid explanations

515

00:24:20,230 --> 00:24:18,480

so

516

00:24:23,350 --> 00:24:20,240

we we stopped

517

00:24:28,070 --> 00:24:25,029

well i

518

00:24:29,269 --> 00:24:28,080

thought maybe we should start a project

519

00:24:33,269 --> 00:24:29,279

again

520

00:24:36,870 --> 00:24:33,279

it's been a long time since we had

521

00:24:41,590 --> 00:24:36,880

the last field day expedition

522

00:24:45,190 --> 00:24:41,600

so i started a project has done again

523

00:24:47,909 --> 00:24:45,200

used the companion at my college store

524

00:24:54,630 --> 00:24:51,669

field works in 84 and 85 was a group of

525

00:24:57,750 --> 00:24:54,640

five people who was

526
00:24:59,510 --> 00:24:57,760
working with this and we had 40 people

527
00:25:01,669 --> 00:24:59,520
participating

528
00:25:02,950 --> 00:25:01,679
but now

529
00:25:05,669 --> 00:25:02,960
i had

530
00:25:07,510 --> 00:25:05,679
one companion at my

531
00:25:09,269 --> 00:25:07,520
university college

532
00:25:10,310 --> 00:25:09,279
which wanted to

533
00:25:11,430 --> 00:25:10,320
to

534
00:25:13,269 --> 00:25:11,440
go on

535
00:25:14,789 --> 00:25:13,279
with this

536
00:25:17,510 --> 00:25:14,799
we had a

537
00:25:18,549 --> 00:25:17,520
scientific workshop

538
00:25:19,590 --> 00:25:18,559

with

539

00:25:21,590 --> 00:25:19,600

several

540

00:25:23,909 --> 00:25:21,600

scientists from

541

00:25:26,630 --> 00:25:23,919

eight different countries

542

00:25:29,510 --> 00:25:26,640

wow around the world

543

00:25:31,750 --> 00:25:29,520

the states russia

544

00:25:33,190 --> 00:25:31,760

and different countries in

545

00:25:34,950 --> 00:25:33,200

in europe

546

00:25:38,630 --> 00:25:34,960

uh and

547

00:25:41,750 --> 00:25:38,640

even japan was part of it

548

00:25:46,070 --> 00:25:41,760

they went to heston we had a workshop

549

00:25:47,990 --> 00:25:46,080

we discussed what to do and so on

550

00:25:51,909 --> 00:25:48,000

and what

551
00:25:54,390 --> 00:25:51,919
what the good thing was that the press

552
00:25:57,830 --> 00:25:54,400
changed attitude

553
00:25:58,710 --> 00:25:57,840
when they saw that there was a

554
00:26:01,830 --> 00:25:58,720
great

555
00:26:05,510 --> 00:26:01,840
scientist from abroad

556
00:26:07,110 --> 00:26:05,520
who came to histor to discuss the

557
00:26:08,149 --> 00:26:07,120
phenomena

558
00:26:11,310 --> 00:26:08,159
so

559
00:26:14,470 --> 00:26:11,320
the result was that the

560
00:26:18,789 --> 00:26:14,480
ridiculing of the people who saw this

561
00:26:21,750 --> 00:26:18,799
nearly stopped or was much lower

562
00:26:26,789 --> 00:26:24,630
i think the people uh

563
00:26:29,990 --> 00:26:26,799

up there

564

00:26:32,710 --> 00:26:30,000

was relaxing a little bit it was

565

00:26:34,870 --> 00:26:32,720

i was not so afraid of telling about

566

00:26:37,430 --> 00:26:34,880

what i was seeing anymore

567

00:26:40,070 --> 00:26:37,440

that that's great

568

00:26:43,510 --> 00:26:40,080

uh well we

569

00:26:44,390 --> 00:26:43,520

picked up an automatic station

570

00:26:45,909 --> 00:26:44,400

i

571

00:26:46,870 --> 00:26:45,919

had my students

572

00:26:47,830 --> 00:26:46,880

to

573

00:26:50,070 --> 00:26:47,840

make

574

00:26:53,990 --> 00:26:50,080

an automatic station with their

575

00:26:57,350 --> 00:26:54,000

computers and cameras and so on and

576
00:26:59,510 --> 00:26:57,360
we we put it up in histone

577
00:27:00,789 --> 00:26:59,520
and it has been working it's still

578
00:27:02,070 --> 00:27:00,799
working

579
00:27:04,230 --> 00:27:02,080
in fact

580
00:27:07,750 --> 00:27:04,240
got data

581
00:27:11,510 --> 00:27:07,760
and get uh get uh

582
00:27:14,149 --> 00:27:11,520
mostly uh data on on your video and a

583
00:27:17,590 --> 00:27:14,159
small film footages

584
00:27:20,549 --> 00:27:17,600
uh which are captured automatically we

585
00:27:22,389 --> 00:27:20,559
don't need to be there anymore

586
00:27:23,669 --> 00:27:22,399
that's really helpful

587
00:27:27,590 --> 00:27:23,679
yeah

588
00:27:29,430 --> 00:27:27,600

i should also mention that another thing

589

00:27:31,750 --> 00:27:29,440

we did do

590

00:27:34,549 --> 00:27:31,760

was to involve

591

00:27:37,350 --> 00:27:34,559

young norwegian students

592

00:27:39,990 --> 00:27:37,360

together with their teachers

593

00:27:41,269 --> 00:27:40,000

where they stay up in his town

594

00:27:42,630 --> 00:27:41,279

one week

595

00:27:43,590 --> 00:27:42,640

during the

596

00:27:44,549 --> 00:27:43,600

autumn

597

00:27:48,389 --> 00:27:44,559

no

598

00:27:50,710 --> 00:27:48,399

september or october it's cold up there

599

00:27:51,750 --> 00:27:50,720

though

600

00:27:54,630 --> 00:27:51,760

and

601
00:27:58,389 --> 00:27:54,640
we got young classes

602
00:28:01,669 --> 00:27:58,399
in the beginning of the 15 16 years old

603
00:28:04,149 --> 00:28:01,679
students together with the teachers

604
00:28:08,549 --> 00:28:04,159
we brought instruments up there

605
00:28:10,470 --> 00:28:08,559
we call it the whole thing science camp

606
00:28:11,190 --> 00:28:10,480
and

607
00:28:20,310 --> 00:28:11,200
the

608
00:28:24,470 --> 00:28:21,269
on

609
00:28:25,510 --> 00:28:24,480
the learning process so it was

610
00:28:27,350 --> 00:28:25,520
great

611
00:28:31,590 --> 00:28:27,360
and

612
00:28:35,669 --> 00:28:31,600
we we told the student that

613
00:28:37,350 --> 00:28:35,679

no one knows what this phenomena is

614

00:28:40,230 --> 00:28:37,360

and

615

00:28:42,070 --> 00:28:40,240

now you must help us

616

00:28:45,190 --> 00:28:42,080

to find the answer

617

00:28:47,909 --> 00:28:45,200

and maybe you can get the data which are

618

00:28:50,870 --> 00:28:47,919

needed for a teaching book you

619

00:28:54,230 --> 00:28:50,880

can imagine those young students

620

00:28:56,230 --> 00:28:54,240

was used to read a book

621

00:28:57,350 --> 00:28:56,240

of how it is

622

00:29:00,470 --> 00:28:57,360

and

623

00:29:01,430 --> 00:29:00,480

i must learn what's in the book

624

00:29:03,750 --> 00:29:01,440

because

625

00:29:05,430 --> 00:29:03,760

that's uh that's

626
00:29:09,909 --> 00:29:05,440
but now

627
00:29:13,909 --> 00:29:09,919
the situation completely different uh

628
00:29:17,029 --> 00:29:13,919
now we said we don't have this

629
00:29:18,470 --> 00:29:17,039
textbook we don't have this

630
00:29:20,630 --> 00:29:18,480
information

631
00:29:23,190 --> 00:29:20,640
and you must help us

632
00:29:26,389 --> 00:29:23,200
and that made some attitude in the

633
00:29:27,750 --> 00:29:26,399
students that was very very eager

634
00:29:30,230 --> 00:29:27,760
to do

635
00:29:32,870 --> 00:29:30,240
the study do the work

636
00:29:36,870 --> 00:29:32,880
and they learned a lot so

637
00:29:38,789 --> 00:29:36,880
on the pedagogical way in teaching way

638
00:29:41,430 --> 00:29:38,799

this was very good

639

00:29:46,470 --> 00:29:45,110

it was very popular as well even if the

640

00:29:48,549 --> 00:29:46,480

if the

641

00:29:50,909 --> 00:29:48,559

the

642

00:29:54,310 --> 00:29:50,919

it was cold and not

643

00:29:57,029 --> 00:29:54,320

comfortable they stayed in intents

644

00:29:59,269 --> 00:29:57,039

out in the yeah in the wilderness

645

00:30:01,909 --> 00:29:59,279

wilderness

646

00:30:03,430 --> 00:30:01,919

with instruments

647

00:30:07,190 --> 00:30:03,440

but even though

648

00:30:08,630 --> 00:30:07,200

i thought it was very very exciting

649

00:30:13,029 --> 00:30:08,640

and so

650

00:30:16,070 --> 00:30:13,039

we started that it's nearly 20 years ago

651
00:30:17,430 --> 00:30:16,080
and we still have it

652
00:30:20,389 --> 00:30:17,440
but we have

653
00:30:23,190 --> 00:30:20,399
now we have students which are older we

654
00:30:25,350 --> 00:30:23,200
have students from our college which are

655
00:30:28,630 --> 00:30:25,360
18 years or more

656
00:30:30,789 --> 00:30:28,640
so we are more grown-up people

657
00:30:32,789 --> 00:30:30,799
wow that's amazing it does sound like it

658
00:30:34,230 --> 00:30:32,799
would have been very exciting

659
00:30:37,110 --> 00:30:34,240
i certainly would have loved to have

660
00:30:38,149 --> 00:30:37,120
been a part of something like that

661
00:30:39,669 --> 00:30:38,159
yes

662
00:30:41,350 --> 00:30:39,679
now would it be possible if we could

663
00:30:43,590 --> 00:30:41,360

actually have a look at some of these

664

00:30:45,510 --> 00:30:43,600

these captures that you've caught over

665

00:30:48,630 --> 00:30:45,520

the years is that okay

666

00:30:50,389 --> 00:30:48,640

yes of course i can share my screen let

667

00:30:52,710 --> 00:30:50,399

me see if i pick up

668

00:30:55,269 --> 00:30:52,720

several pictures of course

669

00:30:57,669 --> 00:30:55,279

maybe i should start with uh

670

00:30:59,509 --> 00:30:57,679

this is the light i saw

671

00:31:02,630 --> 00:30:59,519

uh the first time

672

00:31:06,630 --> 00:31:02,640

my first observation

673

00:31:09,110 --> 00:31:06,640

let me take down that was back in 1982

674

00:31:10,470 --> 00:31:09,120

my first field work with my

675

00:31:11,830 --> 00:31:10,480

friends

676
00:31:13,590 --> 00:31:11,840
going up there

677
00:31:16,470 --> 00:31:13,600
and i just

678
00:31:19,029 --> 00:31:16,480
knew that it was real

679
00:31:22,310 --> 00:31:19,039
let me see if i can pick up

680
00:31:23,669 --> 00:31:22,320
some other uh interesting top well i

681
00:31:28,310 --> 00:31:23,679
mentioned that

682
00:31:28,320 --> 00:31:31,110
which

683
00:31:36,870 --> 00:31:33,750
you can see the blue box on the bottom

684
00:31:39,110 --> 00:31:36,880
sure and you have we made a tower with

685
00:31:40,470 --> 00:31:39,120
some instruments and cameras and so on

686
00:31:42,070 --> 00:31:40,480
radar

687
00:31:45,430 --> 00:31:42,080
on top of it

688
00:31:46,630 --> 00:31:45,440

uh that blue box is still in

689

00:31:52,549 --> 00:31:46,640

in

690

00:31:54,470 --> 00:31:52,559

did the phenomena show up on radar yeah

691

00:31:58,070 --> 00:31:54,480

wow

692

00:32:04,070 --> 00:32:00,950

we haven't

693

00:32:06,230 --> 00:32:04,080

got it on that radar we had it on the

694

00:32:08,789 --> 00:32:06,240

first radar we had

695

00:32:11,350 --> 00:32:08,799

in 1984.

696

00:32:14,470 --> 00:32:11,360

the reason why we don't have it here

697

00:32:16,549 --> 00:32:14,480

is this is digital and pick up all

698

00:32:18,149 --> 00:32:16,559

different kind of stuff

699

00:32:22,149 --> 00:32:18,159

so it's a very

700

00:32:23,430 --> 00:32:22,159

difficult to to adjust so we get only

701
00:32:27,269 --> 00:32:23,440
only the

702
00:32:33,509 --> 00:32:29,430
see if i can pick up

703
00:32:36,350 --> 00:32:33,519
some other yeah maybe the station we had

704
00:32:44,070 --> 00:32:40,470
1984 when we had the first field work

705
00:32:46,389 --> 00:32:44,080
i mentioned that we borrowed the cabin

706
00:32:49,669 --> 00:32:46,399
uh you can see here

707
00:32:51,750 --> 00:32:49,679
uh where a lot of instruments we

708
00:32:55,750 --> 00:32:51,760
borrowed that was in

709
00:32:59,990 --> 00:32:55,760
our first field work in 1984.

710
00:33:03,269 --> 00:33:00,000
radar we got it on you see here sure

711
00:33:05,269 --> 00:33:03,279
we have also some antennas and and

712
00:33:07,590 --> 00:33:05,279
so on

713
00:33:09,110 --> 00:33:07,600

so you're with that the instruments

714

00:33:10,950 --> 00:33:09,120

inside here

715

00:33:13,430 --> 00:33:10,960

we

716

00:33:18,470 --> 00:33:13,440

captured

717

00:33:22,230 --> 00:33:19,909

luckily

718

00:33:25,110 --> 00:33:22,240

i would say because we have had some

719

00:33:27,909 --> 00:33:25,120

problems with the power right

720

00:33:31,990 --> 00:33:30,470

many times when

721

00:33:35,269 --> 00:33:32,000

the power

722

00:33:36,870 --> 00:33:35,279

or the fender showed up

723

00:33:39,990 --> 00:33:36,880

the power went

724

00:33:43,669 --> 00:33:40,000

down it disappeared

725

00:33:46,310 --> 00:33:43,679

luckily not not all the times otherwise

726
00:33:48,149 --> 00:33:46,320
we wouldn't have had any data

727
00:33:50,710 --> 00:33:48,159
but

728
00:33:52,389 --> 00:33:50,720
so the year afterwards

729
00:33:54,470 --> 00:33:52,399
we had a new

730
00:33:56,710 --> 00:33:54,480
station

731
00:33:58,389 --> 00:33:56,720
and uh

732
00:34:00,789 --> 00:33:58,399
better equipped

733
00:34:01,830 --> 00:34:00,799
you see the radar on top of it

734
00:34:02,789 --> 00:34:01,840
yeah

735
00:34:09,349 --> 00:34:02,799
and

736
00:34:10,470 --> 00:34:09,359
on better equipped in fact

737
00:34:12,869 --> 00:34:10,480
but

738
00:34:16,230 --> 00:34:12,879

during that

739

00:34:17,430 --> 00:34:16,240

i should mention also that the power to

740

00:34:19,109 --> 00:34:17,440

this

741

00:34:23,510 --> 00:34:19,119

box

742

00:34:27,270 --> 00:34:23,520

we had a cable down to near's house

743

00:34:28,069 --> 00:34:27,280

this this place was 800 meters away from

744

00:34:32,550 --> 00:34:28,079

this

745

00:34:36,069 --> 00:34:32,560

so we brought the long cable with us up

746

00:34:37,669 --> 00:34:36,079

a thick cable uh the first year the year

747

00:34:42,790 --> 00:34:37,679

before

748

00:34:46,310 --> 00:34:42,800

we had a not as such a solid thick cable

749

00:34:49,510 --> 00:34:46,320

so that may be one of the reasons why we

750

00:34:53,589 --> 00:34:49,520

had problems with the power

751
00:34:54,710 --> 00:34:53,599
so that was in 1985

752
00:34:57,990 --> 00:34:54,720
and

753
00:34:59,670 --> 00:34:58,000
during the years we have got it on on

754
00:35:03,030 --> 00:34:59,680
radar

755
00:35:05,430 --> 00:35:03,040
we have a lot of pictures uh

756
00:35:06,790 --> 00:35:05,440
well maybe i should pick up this radar

757
00:35:10,470 --> 00:35:06,800
screen

758
00:35:13,430 --> 00:35:10,480
uh you can see the mountains here

759
00:35:15,750 --> 00:35:13,440
yeah here is mountains here's his

760
00:35:19,030 --> 00:35:15,760
mountain here and here

761
00:35:20,470 --> 00:35:19,040
the mountains is much lighter

762
00:35:22,950 --> 00:35:20,480
and you see

763
00:35:27,190 --> 00:35:22,960

below these

764

00:35:29,030 --> 00:35:27,200

red dots that red dots was made by a

765

00:35:31,750 --> 00:35:29,040

pencil

766

00:35:32,710 --> 00:35:31,760

we we had a plastic in front so we could

767

00:35:34,069 --> 00:35:32,720

mark

768

00:35:36,230 --> 00:35:34,079

where the

769

00:35:37,829 --> 00:35:36,240

strange phenomena was

770

00:35:41,030 --> 00:35:37,839

showing up

771

00:35:42,710 --> 00:35:41,040

so that's why you see this red one but

772

00:35:46,230 --> 00:35:42,720

when it took the picture you see

773

00:35:49,190 --> 00:35:46,240

something below the red dots yeah and

774

00:35:52,550 --> 00:35:49,200

here's the phenomena wow what's what's

775

00:35:55,030 --> 00:35:52,560

strange it that it seems to be very

776

00:35:57,670 --> 00:35:55,040

intense very strong

777

00:36:02,310 --> 00:35:57,680

nearly as strong as the mountain

778

00:36:03,109 --> 00:36:02,320

yes so it gives a very strong reflection

779

00:36:09,030 --> 00:36:03,119

on

780

00:36:10,230 --> 00:36:09,040

something solid

781

00:36:13,270 --> 00:36:10,240

and

782

00:36:14,310 --> 00:36:13,280

we could follow the lights on the radar

783

00:36:17,190 --> 00:36:14,320

screen

784

00:36:20,310 --> 00:36:17,200

and we could also

785

00:36:21,109 --> 00:36:20,320

not always we could see the light but we

786

00:36:23,829 --> 00:36:21,119

could

787

00:36:28,630 --> 00:36:23,839

sometimes just follow it

788

00:36:35,270 --> 00:36:31,750

when nothing was seen was looking

789

00:36:38,310 --> 00:36:35,280

outside to see if there was anything but

790

00:36:40,550 --> 00:36:38,320

it was impossible to see but the radar

791

00:36:44,390 --> 00:36:40,560

radar picked it up

792

00:36:46,710 --> 00:36:44,400

wow and this is quite uh fun

793

00:36:47,430 --> 00:36:46,720

wow we call it the hand

794

00:36:48,870 --> 00:36:47,440

yeah

795

00:36:52,829 --> 00:36:48,880

that was

796

00:36:59,069 --> 00:36:52,839

first

797

00:37:00,630 --> 00:36:59,079

um tour i had up there in september

798

00:37:04,230 --> 00:37:00,640

1982.

799

00:37:07,030 --> 00:37:04,240

so several pictures was taken

800

00:37:09,349 --> 00:37:07,040

let me see if i have some of the

801
00:37:12,470 --> 00:37:09,359
uh

802
00:37:15,430 --> 00:37:12,480
yes and maybe this one is interesting

803
00:37:18,630 --> 00:37:15,440
you see some kind of oscillation

804
00:37:21,430 --> 00:37:18,640
yes see this picture was on long

805
00:37:23,109 --> 00:37:21,440
exposure time

806
00:37:25,750 --> 00:37:23,119
so

807
00:37:27,270 --> 00:37:25,760
the light and the camera was standing on

808
00:37:28,870 --> 00:37:27,280
tripod

809
00:37:30,790 --> 00:37:28,880
very stable

810
00:37:34,390 --> 00:37:30,800
and during

811
00:37:37,109 --> 00:37:34,400
the exposure time the light was moving

812
00:37:39,670 --> 00:37:37,119
and then it made this

813
00:37:40,630 --> 00:37:39,680

track on the film

814

00:37:44,230 --> 00:37:40,640

and

815

00:37:46,630 --> 00:37:44,240

up here it seems to start oscillating

816

00:37:48,390 --> 00:37:46,640

moving back and forth

817

00:37:50,790 --> 00:37:48,400

and actually i was

818

00:37:54,470 --> 00:37:50,800

saw this in real

819

00:37:55,430 --> 00:37:54,480

life i was at the location when it

820

00:37:58,470 --> 00:37:55,440

happened

821

00:38:00,790 --> 00:37:58,480

wow uh he stopped the the

822

00:38:03,589 --> 00:38:00,800

photographer here that's why it stopped

823

00:38:06,069 --> 00:38:03,599

it continued of course but

824

00:38:07,990 --> 00:38:06,079

no camera

825

00:38:11,109 --> 00:38:08,000

no no picture

826

00:38:12,390 --> 00:38:11,119

and it became bigger and bigger

827

00:38:13,990 --> 00:38:12,400

and

828

00:38:15,270 --> 00:38:14,000

until it

829

00:38:19,910 --> 00:38:15,280

it

830

00:38:21,829 --> 00:38:19,920

too big wow

831

00:38:23,990 --> 00:38:21,839

ah there we go people you can see where

832

00:38:25,829 --> 00:38:24,000

heston is located

833

00:38:28,230 --> 00:38:25,839

and it's uh

834

00:38:30,870 --> 00:38:28,240

just south of trondheim city in the

835

00:38:34,470 --> 00:38:30,880

southern part of norway

836

00:38:37,670 --> 00:38:34,480

and it's a small valley it's about from

837

00:38:40,069 --> 00:38:37,680

trondheim city it's about 120 kilometers

838

00:38:45,510 --> 00:38:40,079

south

839

00:38:49,109 --> 00:38:45,520

and you see the heston valley is only 15

840

00:38:51,990 --> 00:38:49,119

kilometers long there's not so big only

841

00:38:55,349 --> 00:38:52,000

100 inhabitants

842

00:38:58,630 --> 00:38:55,359

and you have some mountains in the west

843

00:39:00,950 --> 00:38:58,640

mont vinci is most famous monk wrong

844

00:39:02,790 --> 00:39:00,960

neville

845

00:39:05,030 --> 00:39:02,800

you have different and different lakes

846

00:39:06,950 --> 00:39:05,040

too

847

00:39:10,310 --> 00:39:06,960

and

848

00:39:13,190 --> 00:39:10,320

if you can see from this mountain

849

00:39:16,630 --> 00:39:13,200

along the field towards mount vinsuce

850

00:39:20,550 --> 00:39:16,640

that in that mountain it's a very long

851
00:39:22,150 --> 00:39:20,560
mountain several kilometers long

852
00:39:24,710 --> 00:39:22,160
it was actually

853
00:39:26,230 --> 00:39:24,720
down in this mountainside the light was

854
00:39:30,150 --> 00:39:26,240
first seen

855
00:39:32,630 --> 00:39:30,160
as a light standing in the mountain side

856
00:39:35,829 --> 00:39:32,640
and us people was wondering what could

857
00:39:37,750 --> 00:39:35,839
that be and so on and suddenly they saw

858
00:39:40,630 --> 00:39:37,760
it was moving out from the countryside

859
00:39:43,990 --> 00:39:40,640
they're moving down this

860
00:39:45,910 --> 00:39:44,000
or to the right following the valley

861
00:39:49,670 --> 00:39:45,920
wow uh

862
00:39:52,790 --> 00:39:50,790
direction

863
00:39:53,589 --> 00:39:52,800

yeah

864

00:39:57,349 --> 00:39:53,599

and

865

00:40:00,069 --> 00:39:57,359

well maybe i should

866

00:40:03,829 --> 00:40:00,079

tell you that

867

00:40:07,750 --> 00:40:03,839

the big flap started in 1981

868

00:40:11,910 --> 00:40:07,760

and in the end of 1984 from

869

00:40:16,950 --> 00:40:14,150

let me see we have

870

00:40:19,109 --> 00:40:16,960

maybe i should move on we don't have the

871

00:40:20,950 --> 00:40:19,119

whole night

872

00:40:24,230 --> 00:40:20,960

the whole evening

873

00:40:25,430 --> 00:40:24,240

so anyway

874

00:40:27,030 --> 00:40:25,440

the main

875

00:40:29,270 --> 00:40:27,040

issue was to

876
00:40:32,309 --> 00:40:29,280
get this

877
00:40:33,670 --> 00:40:32,319
get scientific data and get it

878
00:40:35,670 --> 00:40:33,680
accepted

879
00:40:39,270 --> 00:40:35,680
sure yes

880
00:40:42,790 --> 00:40:39,280
so it was two field works january 21st

881
00:40:45,190 --> 00:40:42,800
to february 26 in 1984

882
00:40:46,630 --> 00:40:45,200
and january 14 to

883
00:40:48,550 --> 00:40:46,640
28

884
00:40:49,589 --> 00:40:48,560
with instruments

885
00:40:52,309 --> 00:40:49,599
and

886
00:40:53,109 --> 00:40:52,319
february 10th without any instruments

887
00:40:55,430 --> 00:40:53,119
well

888
00:40:59,190 --> 00:40:55,440

i mentioned that we had some problems

889

00:41:00,069 --> 00:40:59,200

with the power when the phenomena came

890

00:41:03,829 --> 00:41:00,079

uh

891

00:41:07,750 --> 00:41:03,839

showed up in in the first field work

892

00:41:11,270 --> 00:41:07,760

and we got the feeling could it be some

893

00:41:14,390 --> 00:41:11,280

uh connection here was there was it due

894

00:41:17,109 --> 00:41:14,400

to the phenomena right so we thought

895

00:41:19,670 --> 00:41:17,119

maybe we could test that so we had one

896

00:41:22,470 --> 00:41:19,680

period with fuel instruments and one

897

00:41:25,270 --> 00:41:22,480

without any instruments

898

00:41:29,030 --> 00:41:25,280

but sadly we got only one good

899

00:41:31,349 --> 00:41:29,040

observation back in 1985

900

00:41:33,430 --> 00:41:31,359

even though this was in the period

901
00:41:36,870 --> 00:41:33,440
without any instruments

902
00:41:38,950 --> 00:41:36,880
it is too little to prove anything yes

903
00:41:42,150 --> 00:41:38,960
of course

904
00:41:43,670 --> 00:41:42,160
well we have several uh uh involved

905
00:41:46,790 --> 00:41:43,680
students

906
00:41:48,309 --> 00:41:46,800
uh well the summary we had a

907
00:41:50,069 --> 00:41:48,319
1990

908
00:41:51,910 --> 00:41:50,079
when we started we had started with a

909
00:41:53,270 --> 00:41:51,920
scientific workshop

910
00:41:55,109 --> 00:41:53,280
uh where

911
00:41:56,630 --> 00:41:55,119
uh got

912
00:41:57,750 --> 00:41:56,640
scientists from eight different

913
00:42:00,390 --> 00:41:57,760

countries

914

00:42:03,829 --> 00:42:00,400

uh and uh after that

915

00:42:04,950 --> 00:42:03,839

the media started to

916

00:42:07,109 --> 00:42:04,960

well

917

00:42:11,430 --> 00:42:07,119

actually the media stopped

918

00:42:16,150 --> 00:42:11,440

ridiculing the people after that

919

00:42:18,790 --> 00:42:16,160

we set up this automatic station in 1998

920

00:42:20,069 --> 00:42:18,800

we had some cooperation with italian

921

00:42:23,349 --> 00:42:20,079

scientists

922

00:42:26,630 --> 00:42:23,359

we had some field works together with

923

00:42:28,870 --> 00:42:26,640

those people from italy we call it the

924

00:42:29,870 --> 00:42:28,880

ember fieldworks

925

00:42:32,470 --> 00:42:29,880

and since

926

00:42:34,309 --> 00:42:32,480

2002 we had science camp for young

927

00:42:37,510 --> 00:42:34,319

students

928

00:42:38,870 --> 00:42:37,520

uh actually in 2010 we had two automatic

929

00:42:41,990 --> 00:42:38,880

field stations

930

00:42:45,270 --> 00:42:42,000

uh that was in cooperation with our

931

00:42:48,150 --> 00:42:45,280

scientists from france which was also

932

00:42:51,349 --> 00:42:48,160

involved and they had some

933

00:42:54,950 --> 00:42:51,359

some instruments they wanted to use

934

00:42:56,950 --> 00:42:54,960

but they couldn't use our

935

00:42:59,829 --> 00:42:56,960

station because

936

00:43:02,870 --> 00:42:59,839

we had power 220

937

00:43:03,990 --> 00:43:02,880

volt we have internet connection

938

00:43:05,430 --> 00:43:04,000

right

939

00:43:07,109 --> 00:43:05,440

this uh

940

00:43:08,870 --> 00:43:07,119

sensors was

941

00:43:12,230 --> 00:43:08,880

too sensitive

942

00:43:14,790 --> 00:43:12,240

for electrical power so we had to use

943

00:43:17,109 --> 00:43:14,800

batteries and so on right

944

00:43:18,309 --> 00:43:17,119

so we decided to

945

00:43:21,270 --> 00:43:18,319

build two

946

00:43:24,710 --> 00:43:21,280

small new automatic station

947

00:43:27,910 --> 00:43:24,720

with investors and solar cells

948

00:43:30,470 --> 00:43:27,920

that we did in 2010

949

00:43:32,390 --> 00:43:30,480

yeah we changed the name though from you

950

00:43:36,790 --> 00:43:32,400

for that

951
00:43:40,390 --> 00:43:38,470
and

952
00:43:43,349 --> 00:43:40,400
i mentioned the different categories

953
00:43:45,589 --> 00:43:43,359
strong of lighter blue flashes

954
00:43:47,109 --> 00:43:45,599
lasting from fraction of a second after

955
00:43:49,109 --> 00:43:47,119
a couple of seconds

956
00:43:50,230 --> 00:43:49,119
yellow bowl of light

957
00:43:52,069 --> 00:43:50,240
and

958
00:43:54,470 --> 00:43:52,079
which have different shapes you can

959
00:43:56,470 --> 00:43:54,480
stand still from minutes hours

960
00:43:59,589 --> 00:43:56,480
move slowly and fast

961
00:44:02,550 --> 00:43:59,599
at the most we measure the speed of 30

962
00:44:06,630 --> 00:44:02,560
000 kilometers an hour wow

963
00:44:10,309 --> 00:44:06,640

30 000 that's much faster than any

964

00:44:12,390 --> 00:44:10,319

airplane yeah so that was picked up by

965

00:44:15,589 --> 00:44:12,400

then by the

966

00:44:17,510 --> 00:44:16,550

radar

967

00:44:19,190 --> 00:44:17,520

right

968

00:44:21,990 --> 00:44:19,200

several lights together

969

00:44:25,510 --> 00:44:22,000

yeah connected to an object and objects

970

00:44:29,349 --> 00:44:25,520

have also been seen thus is one of the

971

00:44:33,750 --> 00:44:31,910

as i described we have several of those

972

00:44:37,109 --> 00:44:33,760

two not so many though

973

00:44:38,069 --> 00:44:37,119

this was the first one i mentioned i saw

974

00:44:40,630 --> 00:44:38,079

and

975

00:44:42,390 --> 00:44:40,640

it lasted for

976
00:44:45,829 --> 00:44:42,400
more than one hour

977
00:44:50,390 --> 00:44:45,839
and if you can see precisely based it's

978
00:44:51,589 --> 00:44:50,400
mountain in behind yes

979
00:44:53,670 --> 00:44:51,599
maybe i should

980
00:44:55,349 --> 00:44:53,680
move on faster i don't know how long

981
00:44:56,870 --> 00:44:55,359
time you want

982
00:44:58,309 --> 00:44:56,880
it's fine

983
00:45:00,870 --> 00:44:58,319
now that's fine we can carry on looking

984
00:45:04,470 --> 00:45:00,880
if you if you want to go yeah yeah yeah

985
00:45:07,510 --> 00:45:04,480
fine excellent excellent blue flashes

986
00:45:09,349 --> 00:45:07,520
lights coming out from the main

987
00:45:12,550 --> 00:45:09,359
light this is

988
00:45:13,510 --> 00:45:12,560

light moving across the

989

00:45:16,069 --> 00:45:13,520

sky

990

00:45:19,270 --> 00:45:16,079

during the exposure time

991

00:45:22,390 --> 00:45:19,280

so it makes a track of the film when

992

00:45:28,790 --> 00:45:24,870

and then we saw there was some

993

00:45:33,030 --> 00:45:28,800

lights coming out from this big light

994

00:45:33,990 --> 00:45:33,040

that has been also been measured

995

00:45:37,510 --> 00:45:34,000

later

996

00:45:38,390 --> 00:45:37,520

coming out or moving into the big light

997

00:45:40,870 --> 00:45:38,400

right

998

00:45:44,069 --> 00:45:40,880

it can change shapes

999

00:45:49,430 --> 00:45:47,589

more not so clear

1000

00:45:52,390 --> 00:45:49,440

outer shapes

1001
00:45:54,950 --> 00:45:52,400
and the second flash

1002
00:45:57,430 --> 00:45:54,960
you see there's something inside here

1003
00:45:59,510 --> 00:45:57,440
starting to

1004
00:46:03,430 --> 00:45:59,520
glow a little bit more

1005
00:46:04,630 --> 00:46:03,440
and on the third flash you see only this

1006
00:46:06,150 --> 00:46:04,640
uh

1007
00:46:08,390 --> 00:46:06,160
part

1008
00:46:11,430 --> 00:46:08,400
with a strange

1009
00:46:13,430 --> 00:46:11,440
i mentioned these balls of light which

1010
00:46:14,710 --> 00:46:13,440
have sometimes very

1011
00:46:17,750 --> 00:46:14,720
strange

1012
00:46:21,750 --> 00:46:17,760
shapes and so on here you can see what

1013
00:46:27,349 --> 00:46:24,870

i can move very fast

1014

00:46:30,710 --> 00:46:27,359

the photographer said that when i took

1015

00:46:33,510 --> 00:46:30,720

the picture it disappeared he said

1016

00:46:35,589 --> 00:46:33,520

but what he didn't know

1017

00:46:38,230 --> 00:46:35,599

uh is

1018

00:46:39,589 --> 00:46:38,240

well he developed the film that was back

1019

00:46:42,390 --> 00:46:39,599

in 80s

1020

00:46:45,030 --> 00:46:42,400

he managed he had managed to get

1021

00:46:45,990 --> 00:46:45,040

disappearing onto film

1022

00:46:47,430 --> 00:46:46,000

so

1023

00:46:49,190 --> 00:46:47,440

the one of the

1024

00:46:52,309 --> 00:46:49,200

pictures is that it

1025

00:46:55,109 --> 00:46:52,319

makes such a sharp angle if you can

1026

00:46:57,430 --> 00:46:55,119

imagine you see it here yeah

1027

00:47:00,630 --> 00:46:57,440

when then it disappeared during the

1028

00:47:03,829 --> 00:47:00,640

exposure time it moved like that moved

1029

00:47:07,990 --> 00:47:03,839

down sharp angle and up like this and

1030

00:47:11,589 --> 00:47:10,870

yeah this is another famous observation

1031

00:47:14,470 --> 00:47:11,599

too

1032

00:47:17,270 --> 00:47:14,480

uh this is through a drawing made of the

1033

00:47:21,510 --> 00:47:17,280

observer it was standing here in the

1034

00:47:22,710 --> 00:47:21,520

beginning it was moving in front of this

1035

00:47:25,030 --> 00:47:22,720

mountain

1036

00:47:28,950 --> 00:47:25,040

and another drawing

1037

00:47:31,349 --> 00:47:28,960

from a bow you can see this fincer this

1038

00:47:33,510 --> 00:47:31,359

is mountain which you see here

1039

00:47:35,510 --> 00:47:33,520

it was the photographer was standing

1040

00:47:38,710 --> 00:47:35,520

here on the small cottage

1041

00:47:41,349 --> 00:47:38,720

and it was moving towards him and it

1042

00:47:44,630 --> 00:47:41,359

turned to

1043

00:47:46,790 --> 00:47:44,640

to the left for him though it was moving

1044

00:47:49,430 --> 00:47:46,800

like this

1045

00:47:53,109 --> 00:47:49,440

he managed to take a couple of picture

1046

00:47:56,230 --> 00:47:53,119

and that day it was snowing it was foggy

1047

00:47:57,589 --> 00:47:56,240

you can imagine the clouds was down on

1048

00:48:01,270 --> 00:47:57,599

the mountains

1049

00:48:04,950 --> 00:48:01,280

and you see this light even in such

1050

00:48:08,309 --> 00:48:04,960

weather condition wow and he took that

1051
00:48:10,470 --> 00:48:08,319
picture and it moved in the

1052
00:48:11,589 --> 00:48:10,480
direction of the

1053
00:48:14,710 --> 00:48:11,599
arrow

1054
00:48:16,549 --> 00:48:14,720
and he it disappeared

1055
00:48:17,990 --> 00:48:16,559
behind this

1056
00:48:21,270 --> 00:48:18,000
hill

1057
00:48:24,790 --> 00:48:21,280
it was a foggy the clouds was down

1058
00:48:28,069 --> 00:48:24,800
and if it had been clear weather you

1059
00:48:29,190 --> 00:48:28,079
would have seen the mountain behind here

1060
00:48:31,589 --> 00:48:29,200
okay

1061
00:48:33,430 --> 00:48:31,599
so it turned out to be

1062
00:48:34,710 --> 00:48:33,440
possible to see in all weather

1063
00:48:36,390 --> 00:48:34,720

conditions

1064

00:48:39,589 --> 00:48:36,400

right

1065

00:48:43,190 --> 00:48:39,599

yeah this is another picture

1066

00:48:45,349 --> 00:48:43,200

we call it the truck

1067

00:48:49,829 --> 00:48:45,359

we have analyzed some of the pictures to

1068

00:48:54,309 --> 00:48:51,750

most of the pictures we have analyzed

1069

00:48:56,309 --> 00:48:54,319

but the reason why we call it that truck

1070

00:48:59,670 --> 00:48:56,319

is that this

1071

00:49:00,790 --> 00:48:59,680

someone has seen this in the backyard of

1072

00:49:05,030 --> 00:49:00,800

the house

1073

00:49:07,750 --> 00:49:05,040

and it was a big as big as the truck wow

1074

00:49:13,190 --> 00:49:10,630

yeah here's another story there's a lot

1075

00:49:16,230 --> 00:49:13,200

of different stories here

1076
00:49:20,230 --> 00:49:16,240
someone was standing on this mountain

1077
00:49:21,430 --> 00:49:20,240
here and i saw a light was coming

1078
00:49:25,270 --> 00:49:21,440
from

1079
00:49:28,630 --> 00:49:25,280
the north moving across this lake

1080
00:49:32,390 --> 00:49:28,640
and it illuminated

1081
00:49:35,670 --> 00:49:32,400
inside the circle it illuminated um

1082
00:49:36,549 --> 00:49:35,680
it was strong so it uh illuminated the

1083
00:49:40,230 --> 00:49:36,559
big

1084
00:49:42,150 --> 00:49:40,240
sure

1085
00:49:44,549 --> 00:49:42,160
that's a big limit

1086
00:49:45,829 --> 00:49:44,559
yes here's a high speed you have

1087
00:49:47,829 --> 00:49:45,839
different uh

1088
00:49:49,190 --> 00:49:47,839

i mentioned those

1089

00:49:50,790 --> 00:49:49,200

who had

1090

00:49:52,230 --> 00:49:50,800

several lights

1091

00:49:55,510 --> 00:49:52,240

connected

1092

00:49:58,950 --> 00:49:55,520

yeah he has one of the observation

1093

00:50:01,990 --> 00:49:58,960

and he saw it also when it was not

1094

00:50:05,430 --> 00:50:02,000

completely dark it just

1095

00:50:09,109 --> 00:50:05,440

was drawing some kind of black object

1096

00:50:11,750 --> 00:50:09,119

with the lights indicated on where it

1097

00:50:14,710 --> 00:50:11,760

was red light in front and two yellow in

1098

00:50:17,270 --> 00:50:14,720

the back and they took a picture

1099

00:50:22,390 --> 00:50:17,280

you have this red light in front

1100

00:50:28,069 --> 00:50:24,870

and has more

1101

00:50:28,950 --> 00:50:28,079

drawings made by the observer

1102

00:50:32,710 --> 00:50:28,960

uh

1103

00:50:36,870 --> 00:50:32,720

the upper one they tell about a light in

1104

00:50:43,430 --> 00:50:40,309

which connect these lights

1105

00:50:48,150 --> 00:50:43,440

this is the shape which has been seen

1106

00:50:50,950 --> 00:50:48,160

the the lower one this is a triangle

1107

00:50:51,829 --> 00:50:50,960

with with the red red light in in the

1108

00:50:56,230 --> 00:50:51,839

top

1109

00:50:58,950 --> 00:50:56,240

this is uh more a daylight observation i

1110

00:51:02,790 --> 00:50:58,960

mentioned also that it has been seen in

1111

00:51:03,829 --> 00:51:02,800

the daylight this is a reconstruction

1112

00:51:06,829 --> 00:51:03,839

okay

1113

00:51:10,150 --> 00:51:06,839

it's not the picture of it it's a

1114

00:51:11,750 --> 00:51:10,160
reconstruction of

1115

00:51:14,710 --> 00:51:11,760
the description

1116

00:51:15,910 --> 00:51:14,720
of the phenomena it was

1117

00:51:17,030 --> 00:51:15,920
brown

1118

00:51:18,230 --> 00:51:17,040
with

1119

00:51:22,870 --> 00:51:18,240
yellow

1120

00:51:25,829 --> 00:51:22,880
lights in front and it was moving slowly

1121

00:51:27,829 --> 00:51:25,839
it was the pictures uh had been taken

1122

00:51:30,790 --> 00:51:27,839
you see them there the force in the

1123

00:51:34,630 --> 00:51:30,800
background not so far away very close in

1124

00:51:37,030 --> 00:51:34,640
fact so the distance uh to defend man

1125

00:51:39,750 --> 00:51:37,040
was very close a couple of hundred

1126
00:51:41,990 --> 00:51:39,760
meters maybe to the forest so it was

1127
00:51:45,109 --> 00:51:42,000
between the observer and the for on the

1128
00:51:49,990 --> 00:51:46,870
there's other

1129
00:51:53,990 --> 00:51:50,000
reconstruction of the descriptions or

1130
00:52:01,190 --> 00:51:56,390
another one

1131
00:52:03,349 --> 00:52:01,200
and

1132
00:52:05,109 --> 00:52:03,359
there have been

1133
00:52:06,309 --> 00:52:05,119
you see the mountain where it has been

1134
00:52:11,829 --> 00:52:06,319
seen

1135
00:52:17,270 --> 00:52:13,990
let me call it a ball of light it's not

1136
00:52:18,470 --> 00:52:17,280
a ball but you see the shape sure it was

1137
00:52:21,109 --> 00:52:18,480
described

1138
00:52:23,349 --> 00:52:21,119

as this by the observer

1139

00:52:26,950 --> 00:52:23,359

and uh what's this

1140

00:52:28,069 --> 00:52:26,960

one of the strange thing is that the sun

1141

00:52:29,510 --> 00:52:28,079

was

1142

00:52:32,630 --> 00:52:29,520

from the left

1143

00:52:35,349 --> 00:52:32,640

and eliminating this

1144

00:52:38,390 --> 00:52:35,359

on on the left part of it

1145

00:52:40,870 --> 00:52:38,400

but the bright brightest

1146

00:52:43,109 --> 00:52:40,880

side of this light was

1147

00:52:44,950 --> 00:52:43,119

on there on the right side

1148

00:52:47,670 --> 00:52:44,960

so strange

1149

00:52:51,430 --> 00:52:47,680

from on the other side of the

1150

00:52:54,630 --> 00:52:51,440

from where the sunshine is coming

1151
00:52:57,030 --> 00:52:54,640
yeah this is also a famous uh story uh a

1152
00:52:57,829 --> 00:52:57,040
woman was driving her car

1153
00:52:59,750 --> 00:52:57,839
up

1154
00:53:04,870 --> 00:52:59,760
to headstone

1155
00:53:06,549 --> 00:53:04,880
valley

1156
00:53:09,190 --> 00:53:06,559
mitre girl down

1157
00:53:12,309 --> 00:53:09,200
and you have to climb up a little bit

1158
00:53:15,349 --> 00:53:12,319
before you come up to his town

1159
00:53:16,549 --> 00:53:15,359
when she was driving the car in the

1160
00:53:20,630 --> 00:53:16,559
darkness

1161
00:53:21,990 --> 00:53:20,640
she noticed it was very bright around

1162
00:53:23,190 --> 00:53:22,000
the car

1163
00:53:26,390 --> 00:53:23,200

um

1164

00:53:29,510 --> 00:53:26,400

so some few meters afterwards when she

1165

00:53:30,790 --> 00:53:29,520

was up here in heston

1166

00:53:32,069 --> 00:53:30,800

she saw

1167

00:53:33,109 --> 00:53:32,079

this

1168

00:53:35,589 --> 00:53:33,119

hat

1169

00:53:36,470 --> 00:53:35,599

it was moving

1170

00:53:38,870 --> 00:53:36,480

in

1171

00:53:41,030 --> 00:53:38,880

to the valley it didn't follow the car

1172

00:53:43,349 --> 00:53:41,040

anymore it

1173

00:53:45,510 --> 00:53:43,359

moved

1174

00:53:51,510 --> 00:53:45,520

in

1175

00:53:54,230 --> 00:53:51,520

and but she noticed

1176
00:53:56,390 --> 00:53:54,240
the shape of it

1177
00:53:58,230 --> 00:53:56,400
here's another one i mentioned the

1178
00:54:00,549 --> 00:53:58,240
daylight

1179
00:54:02,150 --> 00:54:00,559
objects

1180
00:54:05,589 --> 00:54:02,160
this

1181
00:54:08,829 --> 00:54:05,599
is a drawing made of the observer

1182
00:54:13,430 --> 00:54:08,839
and he described it it looked like some

1183
00:54:16,950 --> 00:54:13,440
metallic and outside there was a glowing

1184
00:54:18,870 --> 00:54:16,960
light which was uh

1185
00:54:21,990 --> 00:54:18,880
onto this

1186
00:54:23,510 --> 00:54:22,000
object he called it the object though

1187
00:54:25,589 --> 00:54:23,520
right

1188
00:54:27,750 --> 00:54:25,599

and it

1189

00:54:30,150 --> 00:54:27,760

was in the daytime

1190

00:54:32,790 --> 00:54:30,160

it slowly

1191

00:54:34,870 --> 00:54:32,800

was visible

1192

00:54:38,069 --> 00:54:34,880

and

1193

00:54:41,109 --> 00:54:38,079

it wasn't visible the whole thing at

1194

00:54:42,230 --> 00:54:41,119

once but the part of it started to be

1195

00:54:44,710 --> 00:54:42,240

visible

1196

00:54:47,510 --> 00:54:44,720

uh and after some

1197

00:54:50,870 --> 00:54:47,520

so not a long time it more and more of

1198

00:54:53,750 --> 00:54:50,880

it become visible and then after

1199

00:54:55,990 --> 00:54:53,760

and some

1200

00:54:58,470 --> 00:54:56,000

seconds i think

1201
00:55:01,349 --> 00:54:58,480
he saw the whole thing

1202
00:55:02,390 --> 00:55:01,359
this description has also been seen by

1203
00:55:04,950 --> 00:55:02,400
another

1204
00:55:06,390 --> 00:55:04,960
witness down in the valley

1205
00:55:10,390 --> 00:55:06,400
right

1206
00:55:12,950 --> 00:55:10,400
yeah the field works 1984 and 1985 and

1207
00:55:15,510 --> 00:55:12,960
the field works i mentioned

1208
00:55:18,069 --> 00:55:15,520
uh some of the instruments inside

1209
00:55:20,950 --> 00:55:18,079
there's a lot of different

1210
00:55:23,030 --> 00:55:20,960
and we have some camera with crating uh

1211
00:55:25,349 --> 00:55:23,040
we had infrared view

1212
00:55:28,150 --> 00:55:25,359
spectrum analyzer to see if there was

1213
00:55:30,710 --> 00:55:28,160

some electromagnetic noise

1214

00:55:32,870 --> 00:55:30,720

we had a seismograph

1215

00:55:35,990 --> 00:55:32,880

installed in the valley

1216

00:55:37,030 --> 00:55:36,000

to measure if there was any movement in

1217

00:55:38,870 --> 00:55:37,040

the

1218

00:55:40,470 --> 00:55:38,880

ground

1219

00:55:44,309 --> 00:55:40,480

so it could be

1220

00:55:45,510 --> 00:55:44,319

some small seismic activity

1221

00:55:46,630 --> 00:55:45,520

but

1222

00:55:49,510 --> 00:55:46,640

not

1223

00:55:53,829 --> 00:55:49,520

anything was measured of

1224

00:55:56,309 --> 00:55:53,839

local seismic activity right yeah

1225

00:55:58,630 --> 00:55:56,319

okay we had the magnetometer who could

1226

00:56:00,390 --> 00:55:58,640

measure the magnetic field

1227

00:56:02,789 --> 00:56:00,400

and we had the radar

1228

00:56:06,390 --> 00:56:02,799

and we had the kylie counter which could

1229

00:56:09,030 --> 00:56:06,400

measure any radioactive radiation

1230

00:56:12,630 --> 00:56:09,040

uh the most interesting part was the

1231

00:56:14,549 --> 00:56:12,640

radar and also magnetograph which picked

1232

00:56:16,470 --> 00:56:14,559

up something

1233

00:56:20,150 --> 00:56:16,480

wow

1234

00:56:21,430 --> 00:56:20,160

so well then the radar it got it on

1235

00:56:24,150 --> 00:56:21,440

radar

1236

00:56:25,510 --> 00:56:24,160

even when nothing was seen by the home

1237

00:56:29,030 --> 00:56:25,520

service

1238

00:56:33,470 --> 00:56:29,040

high speed was 30 000 kilometers an hour

1239

00:56:35,990 --> 00:56:33,480

the spectrum analyzer could sometimes be

1240

00:56:37,510 --> 00:56:36,000

electromagnetically noise in a broad

1241

00:56:38,470 --> 00:56:37,520

frequency band

1242

00:56:40,789 --> 00:56:38,480

okay

1243

00:56:43,670 --> 00:56:40,799

magnetum graph you can measure the

1244

00:56:45,589 --> 00:56:43,680

earth's magnetic field and how it

1245

00:56:49,109 --> 00:56:45,599

changes

1246

00:56:52,390 --> 00:56:49,119

it's not stable it is fluctuation

1247

00:57:00,069 --> 00:56:55,589

it can be magnetical storms or the

1248

00:57:02,710 --> 00:57:00,079

magnetic field as a high activity

1249

00:57:06,230 --> 00:57:02,720

we could measure that

1250

00:57:09,190 --> 00:57:06,240

and some of the observation was during

1251
00:57:12,789 --> 00:57:09,200
high magnetic activity

1252
00:57:14,390 --> 00:57:12,799
most spectacular test was the laser we

1253
00:57:18,870 --> 00:57:14,400
used

1254
00:57:22,150 --> 00:57:18,880
not a strong laser very weak

1255
00:57:25,670 --> 00:57:22,160
notice very weak laser

1256
00:57:27,270 --> 00:57:25,680
red laser one millivolt only that's very

1257
00:57:30,950 --> 00:57:27,280
weak

1258
00:57:32,069 --> 00:57:30,960
we use that to point towards a flashing

1259
00:57:33,670 --> 00:57:32,079
light

1260
00:57:36,390 --> 00:57:33,680
and

1261
00:57:39,589 --> 00:57:36,400
flashing double the flashing frequency

1262
00:57:41,910 --> 00:57:39,599
when it's directed to the laser

1263
00:57:44,470 --> 00:57:41,920

or to the to the when we use the laser

1264

00:57:46,549 --> 00:57:44,480

directing to it that happened in eight

1265

00:57:49,670 --> 00:57:46,559

of nine time

1266

00:57:52,549 --> 00:57:49,680

yeah i mentioned this was 53 with all

1267

00:57:56,470 --> 00:57:52,559

observation right i mentioned 55 but i

1268

00:57:59,589 --> 00:57:56,480

was not sure it was 53 no that's fine

1269

00:58:02,309 --> 00:57:59,599

and rocking motion was sometimes felt

1270

00:58:05,430 --> 00:58:02,319

that was really strange if you can

1271

00:58:08,630 --> 00:58:05,440

imagine you're standing out

1272

00:58:11,109 --> 00:58:08,640

on solid rocks up in the mountain

1273

00:58:13,349 --> 00:58:11,119

yeah and you're having the instruments

1274

00:58:15,910 --> 00:58:13,359

the cameras and so on looking for the

1275

00:58:20,309 --> 00:58:15,920

phenomena and some

1276
00:58:23,910 --> 00:58:20,319
suddenly you feel as if you are standing

1277
00:58:26,870 --> 00:58:23,920
in the boats in the ocean

1278
00:58:27,670 --> 00:58:26,880
waving back and forth

1279
00:58:30,470 --> 00:58:27,680
uh

1280
00:58:33,510 --> 00:58:30,480
i call it a rocking rocking motion maybe

1281
00:58:35,510 --> 00:58:33,520
it's more correct with saying a waving

1282
00:58:38,710 --> 00:58:35,520
motion

1283
00:58:42,470 --> 00:58:38,720
so you can imagine you're standing in

1284
00:58:44,870 --> 00:58:42,480
the post out in the uh ocean

1285
00:58:48,470 --> 00:58:44,880
with a look a lot of wave

1286
00:58:51,430 --> 00:58:48,480
and this base is moving back and forth

1287
00:58:53,829 --> 00:58:51,440
and that was a feeling he was standing

1288
00:58:57,589 --> 00:58:53,839

still under on the

1289

00:58:59,030 --> 00:58:57,599

mountain but that was feeling inside

1290

00:59:01,430 --> 00:58:59,040

so some

1291

00:59:03,510 --> 00:59:01,440

something disturbed

1292

00:59:09,190 --> 00:59:03,520

your your

1293

00:59:14,309 --> 00:59:10,390

yeah

1294

00:59:15,829 --> 00:59:14,319

i mentioned interaction because one week

1295

00:59:19,430 --> 00:59:15,839

later

1296

00:59:23,190 --> 00:59:19,440

with a red laser and

1297

00:59:26,309 --> 00:59:23,200

as i mentioned it double the frequency

1298

00:59:28,950 --> 00:59:26,319

in eight of nine times

1299

00:59:33,190 --> 00:59:31,349

a little bit later

1300

00:59:34,470 --> 00:59:33,200

one week later a little bit more than

1301

00:59:37,190 --> 00:59:34,480

one week

1302

00:59:41,510 --> 00:59:37,200

a red laser was seen moving on the

1303

00:59:42,710 --> 00:59:41,520

ground close to the feet of the observer

1304

00:59:43,430 --> 00:59:42,720

so

1305

00:59:50,710 --> 00:59:43,440

the

1306

00:59:52,870 --> 00:59:50,720

was suddenly coming

1307

00:59:57,109 --> 00:59:52,880

and it looked like

1308

01:00:00,870 --> 00:59:57,119

the same type of light we used as a red

1309

01:00:02,150 --> 01:00:00,880

the red laser well strange yeah that was

1310

01:00:05,190 --> 01:00:02,160

really strange

1311

01:00:07,589 --> 01:00:05,200

i said i put the text in interaction

1312

01:00:09,109 --> 01:00:07,599

with a question mark so yes

1313

01:00:12,150 --> 01:00:09,119

but

1314

01:00:12,950 --> 01:00:12,160

it was very easy to think in that in

1315

01:00:15,990 --> 01:00:12,960

that

1316

01:00:17,190 --> 01:00:16,000

ways right

1317

01:00:18,870 --> 01:00:17,200

yeah

1318

01:00:22,950 --> 01:00:18,880

we had a workshop

1319

01:00:25,670 --> 01:00:22,960

we started in march 1994.

1320

01:00:28,630 --> 01:00:25,680

we had eight different uh

1321

01:00:31,030 --> 01:00:28,640

nation scientists from eight different

1322

01:00:34,870 --> 01:00:31,040

countries and they

1323

01:00:37,030 --> 01:00:34,880

with some famous professor boris miroff

1324

01:00:39,349 --> 01:00:37,040

said something defend contains some

1325

01:00:42,309 --> 01:00:39,359

qualitative elements which at the

1326

01:00:44,230 --> 01:00:42,319

present time has no analog in size thus

1327

01:00:46,870 --> 01:00:44,240

the solution of this problem must lead

1328

01:00:52,309 --> 01:00:46,880

to new concepts in science

1329

01:00:57,990 --> 01:00:55,589

david freiburg of stanford said that

1330

01:01:00,870 --> 01:00:58,000

the heston project has established their

1331

01:01:03,270 --> 01:01:00,880

own doubt that the heston lights are

1332

01:01:04,390 --> 01:01:03,280

real physical femina

1333

01:01:07,910 --> 01:01:04,400

these

1334

01:01:09,190 --> 01:01:07,920

female lies outside of already known

1335

01:01:10,950 --> 01:01:09,200

physics

1336

01:01:13,190 --> 01:01:10,960

that's also

1337

01:01:16,630 --> 01:01:13,200

a strong statement

1338

01:01:17,829 --> 01:01:16,640

absolutely so the the scientist was uh

1339

01:01:18,950 --> 01:01:17,839

interested

1340

01:01:24,549 --> 01:01:18,960

so we

1341

01:01:25,829 --> 01:01:24,559

got 27 of them coming to hessdalen

1342

01:01:28,069 --> 01:01:25,839

for this

1343

01:01:29,270 --> 01:01:28,079

this workshop

1344

01:01:31,589 --> 01:01:29,280

wow

1345

01:01:33,910 --> 01:01:31,599

yeah and i said the press change after

1346

01:01:37,030 --> 01:01:33,920

this workshop no more smiling and

1347

01:01:39,430 --> 01:01:37,040

reporting about observation

1348

01:01:42,150 --> 01:01:39,440

that was really good

1349

01:01:44,069 --> 01:01:42,160

yeah we had some emla

1350

01:01:46,870 --> 01:01:44,079

field work together with

1351

01:01:49,990 --> 01:01:46,880

scientists from italy and so on

1352

01:01:54,150 --> 01:01:53,190

we measured this automatic station

1353

01:01:59,829 --> 01:01:54,160

uh

1354

01:02:03,430 --> 01:01:59,839

hillside in heston you see the maybe the

1355

01:02:06,390 --> 01:02:03,440

small blue box here yeah yeah and

1356

01:02:10,390 --> 01:02:06,400

it's still there and you see

1357

01:02:12,549 --> 01:02:10,400

how it was in 1998 when we started

1358

01:02:15,510 --> 01:02:12,559

with the camera outside

1359

01:02:18,309 --> 01:02:15,520

then in 2009 we got this tower with the

1360

01:02:24,390 --> 01:02:18,319

radar some cameras up there

1361

01:02:26,069 --> 01:02:25,190

well

1362

01:02:29,029 --> 01:02:26,079

yeah

1363

01:02:33,349 --> 01:02:31,510

just a summary

1364

01:02:34,710 --> 01:02:33,359

it is

1365

01:02:38,630 --> 01:02:34,720

not

1366

01:02:40,870 --> 01:02:38,640

updated so that's why i went fast

1367

01:02:43,510 --> 01:02:40,880

through it

1368

01:02:50,069 --> 01:02:45,109

one of the pictures

1369

01:02:52,069 --> 01:02:51,029

the

1370

01:02:55,109 --> 01:02:52,079

camera

1371

01:02:57,670 --> 01:02:55,119

picture goes into a computer inside the

1372

01:02:59,349 --> 01:02:57,680

blue box which analyze

1373

01:03:00,470 --> 01:02:59,359

the pictures

1374

01:03:03,750 --> 01:03:00,480

and

1375

01:03:07,029 --> 01:03:03,760

capture what they think is interesting

1376

01:03:10,710 --> 01:03:07,039

and this is one of the lights

1377

01:03:11,910 --> 01:03:10,720

and it seems that it this light has been

1378

01:03:13,190 --> 01:03:11,920

moved

1379

01:03:16,870 --> 01:03:13,200

very fast

1380

01:03:17,670 --> 01:03:16,880

either up or down it's impossible to say

1381

01:03:20,150 --> 01:03:17,680

sure

1382

01:03:21,910 --> 01:03:20,160

because we can see when we study this

1383

01:03:25,589 --> 01:03:21,920

light we can see

1384

01:03:27,190 --> 01:03:25,599

uh understand that it had a high speed

1385

01:03:28,069 --> 01:03:27,200

right

1386

01:03:33,829 --> 01:03:28,079

yeah

1387

01:03:35,589 --> 01:03:33,839

i mentioned uh lights coming out or or

1388

01:03:41,029 --> 01:03:35,599

going in to

1389

01:03:45,270 --> 01:03:41,039

uh the the formula here's a series of

1390

01:03:48,710 --> 01:03:45,280

video where you see a light is this

1391

01:03:51,029 --> 01:03:48,720

upper here is you see something here

1392

01:03:53,190 --> 01:03:51,039

then it comes a little bit more a little

1393

01:03:55,430 --> 01:03:53,200

bit more a little bit more a little bit

1394

01:03:58,549 --> 01:03:55,440

more and then it

1395

01:04:01,750 --> 01:03:59,990

another

1396

01:04:03,990 --> 01:04:01,760

similar uh

1397

01:04:05,029 --> 01:04:04,000

observation this is from the fematic

1398

01:04:07,349 --> 01:04:05,039

station

1399

01:04:10,069 --> 01:04:07,359

and you see the light it's

1400

01:04:13,349 --> 01:04:10,079

reacted on it started the video recorder

1401
01:04:16,150 --> 01:04:13,359
at that time we don't now we have

1402
01:04:18,710 --> 01:04:16,160
recording directly on the computer

1403
01:04:19,750 --> 01:04:18,720
sure and but at this

1404
01:04:21,910 --> 01:04:19,760
time

1405
01:04:23,670 --> 01:04:21,920
we use a video recording

1406
01:04:27,270 --> 01:04:23,680
and

1407
01:04:30,390 --> 01:04:27,280
this is the second well the the alarm is

1408
01:04:32,789 --> 01:04:30,400
start the video recording and as long as

1409
01:04:37,430 --> 01:04:32,799
the video is recording

1410
01:04:40,950 --> 01:04:37,440
uh the alarm system doesn't uh

1411
01:04:42,950 --> 01:04:40,960
taken any new pictures but as soon as

1412
01:04:46,549 --> 01:04:42,960
the picture stops

1413
01:04:49,510 --> 01:04:46,559

and the light is there you it took a new

1414

01:04:50,549 --> 01:04:49,520

alarm picture you have a system

1415

01:04:52,789 --> 01:04:50,559

which

1416

01:04:54,630 --> 01:04:52,799

analyzed the pictures all the time when

1417

01:04:57,910 --> 01:04:54,640

they find something interesting it

1418

01:04:59,990 --> 01:04:57,920

defined it as an alarm picture and you

1419

01:05:02,150 --> 01:05:00,000

start recording

1420

01:05:03,430 --> 01:05:02,160

so this picture

1421

01:05:06,630 --> 01:05:03,440

it

1422

01:05:08,630 --> 01:05:06,640

was the alarm picture which started the

1423

01:05:15,430 --> 01:05:08,640

recording

1424

01:05:18,150 --> 01:05:15,440

second picture when you start a game

1425

01:05:20,630 --> 01:05:18,160

okay and let me see if i you managed to

1426

01:05:22,230 --> 01:05:20,640

see something here

1427

01:05:23,829 --> 01:05:22,240

uh

1428

01:05:25,750 --> 01:05:23,839

we

1429

01:05:28,630 --> 01:05:25,760

hopefully i can

1430

01:05:33,910 --> 01:05:28,640

cut it on to

1431

01:05:41,750 --> 01:05:38,710

good well anyway what what you can see

1432

01:05:43,670 --> 01:05:41,760

if it's starting

1433

01:05:46,230 --> 01:05:43,680

it will

1434

01:05:47,750 --> 01:05:46,240

move across here

1435

01:05:48,630 --> 01:05:47,760

right and

1436

01:05:51,829 --> 01:05:48,640

i think

1437

01:05:55,029 --> 01:05:51,839

i should let me see

1438

01:05:57,829 --> 01:05:55,039

move on to tell about the science camp

1439

01:05:59,109 --> 01:05:57,839

where we take young students up in to

1440

01:06:02,829 --> 01:05:59,119

the valley

1441

01:06:04,390 --> 01:06:02,839

right they're intense and so on

1442

01:06:07,829 --> 01:06:04,400

and

1443

01:06:11,190 --> 01:06:07,839

doing research during one week in

1444

01:06:12,390 --> 01:06:11,200

histone that was in from 2002

1445

01:06:15,109 --> 01:06:12,400

and

1446

01:06:17,510 --> 01:06:15,119

instruments cameras stay intense during

1447

01:06:19,670 --> 01:06:17,520

the night

1448

01:06:21,430 --> 01:06:19,680

there's a

1449

01:06:23,670 --> 01:06:21,440

map showing

1450

01:06:26,470 --> 01:06:23,680

uh where we had the different uh

1451

01:06:27,589 --> 01:06:26,480

stations of students the red one

1452

01:06:29,910 --> 01:06:27,599

and the

1453

01:06:32,789 --> 01:06:29,920

blue box uh where the

1454

01:06:34,630 --> 01:06:32,799

uh which i just told you about was here

1455

01:06:37,829 --> 01:06:34,640

yeah and at that time you had a

1456

01:06:40,390 --> 01:06:37,839

headquarter up here in the house right

1457

01:06:42,870 --> 01:06:40,400

well here you see some pictures of the

1458

01:06:45,510 --> 01:06:42,880

situation up in the mountains

1459

01:06:47,990 --> 01:06:45,520

where the students stay in tents on

1460

01:06:50,789 --> 01:06:48,000

different teams they have cameras

1461

01:06:53,750 --> 01:06:50,799

outside there also cameras inside the

1462

01:06:56,950 --> 01:06:53,760

tent as you see here with a lot of

1463

01:06:58,549 --> 01:06:56,960

computers and so on and a lot of cameras

1464

01:07:00,549 --> 01:06:58,559

outside

1465

01:07:02,789 --> 01:07:00,559

here's another station

1466

01:07:04,470 --> 01:07:02,799

uh we call it uh

1467

01:07:06,870 --> 01:07:04,480

the base camp

1468

01:07:09,510 --> 01:07:06,880

as another

1469

01:07:10,630 --> 01:07:09,520

station we call skarwan

1470

01:07:13,190 --> 01:07:10,640

instruments

1471

01:07:14,630 --> 01:07:13,200

and so on the same thing

1472

01:07:21,029 --> 01:07:14,640

and

1473

01:07:23,190 --> 01:07:21,039

station a jungle you have tents also a

1474

01:07:25,510 --> 01:07:23,200

cabin where you have

1475

01:07:27,670 --> 01:07:25,520

instruments inside

1476

01:07:29,670 --> 01:07:27,680

it was possible to

1477

01:07:31,510 --> 01:07:29,680

come to this

1478

01:07:32,710 --> 01:07:31,520

camp

1479

01:07:36,150 --> 01:07:32,720

by car

1480

01:07:37,109 --> 01:07:36,160

so that's why they're staying in in the

1481

01:07:38,230 --> 01:07:37,119

cabin

1482

01:07:42,470 --> 01:07:38,240

other

1483

01:07:44,789 --> 01:07:42,480

to get there

1484

01:07:46,950 --> 01:07:44,799

right

1485

01:07:51,670 --> 01:07:46,960

yeah

1486

01:07:54,549 --> 01:07:51,680

and the phenomena can show up anytime

1487

01:07:58,069 --> 01:07:54,559

so it's exciting and the students love

1488

01:08:00,390 --> 01:07:58,079

it and learn signs and experience the

1489

01:08:02,789 --> 01:08:00,400

unknown

1490

01:08:08,789 --> 01:08:06,150

the first science camp 2002

1491

01:08:10,710 --> 01:08:08,799

more than 600

1492

01:08:11,829 --> 01:08:10,720

well actually now it's more than

1493

01:08:12,950 --> 01:08:11,839

thousand

1494

01:08:14,789 --> 01:08:12,960

wow

1495

01:08:17,669 --> 01:08:14,799

students

1496

01:08:20,070 --> 01:08:17,679

the attitude to social nais or change to

1497

01:08:22,870 --> 01:08:20,080

the positive and the phenomena become

1498

01:08:24,709 --> 01:08:22,880

more accepted as a real phenomenon

1499

01:08:28,229 --> 01:08:24,719

because when you see it

1500

01:08:31,030 --> 01:08:28,239

for yourself and the students see it

1501

01:08:33,829 --> 01:08:31,040

they it will change their attitude they

1502

01:08:36,309 --> 01:08:33,839

know it's something there

1503

01:08:39,829 --> 01:08:36,319

yeah we have used a lot of different

1504

01:08:41,030 --> 01:08:39,839

instruments up in the stations where

1505

01:08:43,030 --> 01:08:41,040

they bring

1506

01:08:46,229 --> 01:08:43,040

wing

1507

01:08:47,430 --> 01:08:46,239

instruments with them up in the tents

1508

01:08:50,870 --> 01:08:47,440

yes

1509

01:08:53,669 --> 01:08:50,880

one picture taking from one of the

1510

01:08:55,510 --> 01:08:53,679

field stations

1511

01:08:58,390 --> 01:08:55,520

um

1512

01:09:01,189 --> 01:08:58,400

and you see the interesting one is that

1513

01:09:03,349 --> 01:09:01,199

this blue this picture was taken

1514

01:09:05,110 --> 01:09:03,359

uh in the

1515

01:09:08,470 --> 01:09:05,120

night time

1516

01:09:11,990 --> 01:09:08,480

with a very long exposure time

1517

01:09:13,590 --> 01:09:12,000

what you see the lights on the left

1518

01:09:17,030 --> 01:09:13,600

you have seen the

1519

01:09:21,669 --> 01:09:17,040

light from houses in haston

1520

01:09:24,470 --> 01:09:21,679

and the color color you see is we used

1521

01:09:26,789 --> 01:09:24,480

a grating in front of the camera and

1522

01:09:31,189 --> 01:09:26,799

then it's possible to see the different

1523

01:09:35,669 --> 01:09:31,199

color this white light consists of

1524

01:09:37,910 --> 01:09:35,679

so if you study this colors

1525

01:09:39,829 --> 01:09:37,920

you see some some of them you have some

1526

01:09:43,910 --> 01:09:39,839

spots

1527

01:09:49,430 --> 01:09:43,920

and so on and by analyzing this it's

1528

01:09:51,910 --> 01:09:49,440

possible to find out what the

1529

01:09:55,590 --> 01:09:51,920

stuff is in the light

1530

01:09:58,950 --> 01:09:55,600

is it the gas or is it anything else

1531

01:10:07,270 --> 01:10:04,070

this blue light was captured and you see

1532

01:10:09,910 --> 01:10:07,280

it was moving during the exposure time

1533

01:10:12,550 --> 01:10:09,920

um it was moving like this

1534

01:10:14,550 --> 01:10:12,560

and it seems to be some kind of

1535

01:10:17,350 --> 01:10:14,560

oscillating

1536

01:10:20,149 --> 01:10:17,360

moving

1537

01:10:21,270 --> 01:10:20,159

much so not so far away from what we

1538

01:10:25,350 --> 01:10:21,280

measured

1539

01:10:26,870 --> 01:10:25,360

um in 1984 yeah

1540

01:10:28,830 --> 01:10:26,880

um

1541

01:10:31,669 --> 01:10:28,840

we have

1542

01:10:33,910 --> 01:10:31,679

had um

1543

01:10:36,229 --> 01:10:33,920

pictures of

1544

01:10:39,350 --> 01:10:36,239

the optical spectrum

1545

01:10:41,110 --> 01:10:39,360

uh you see the

1546

01:10:43,270 --> 01:10:41,120

what's inside the

1547

01:10:46,709 --> 01:10:43,280

star here

1548

01:10:49,189 --> 01:10:46,719

is the phenomena and we see the colors

1549

01:10:53,030 --> 01:10:49,199

up here and colors down here

1550

01:10:55,189 --> 01:10:53,040

what you see here is something known

1551
01:10:57,030 --> 01:10:55,199
you have light from the church you have

1552
01:11:00,630 --> 01:10:57,040
a car who had

1553
01:11:02,950 --> 01:11:00,640
moved in in the valley this is the road

1554
01:11:04,390 --> 01:11:02,960
and this is the optical

1555
01:11:07,270 --> 01:11:04,400
the colors

1556
01:11:09,830 --> 01:11:07,280
from the light in the car

1557
01:11:13,750 --> 01:11:09,840
but what's interesting is the colors

1558
01:11:17,350 --> 01:11:13,760
coming from this fender which is here

1559
01:11:19,990 --> 01:11:17,360
right and and we have had yeah this is

1560
01:11:24,229 --> 01:11:20,000
just the part of of this one

1561
01:11:26,550 --> 01:11:24,239
and you have some analyzing

1562
01:11:27,590 --> 01:11:26,560
what kind of

1563
01:11:30,229 --> 01:11:27,600

elements

1564

01:11:33,669 --> 01:11:30,239

which are inside well you have nitrogen

1565

01:11:35,830 --> 01:11:33,679

oxygen as as usual but

1566

01:11:36,950 --> 01:11:35,840

you have also scandium

1567

01:11:38,229 --> 01:11:36,960

uh

1568

01:11:41,350 --> 01:11:38,239

which was

1569

01:11:45,750 --> 01:11:43,189

interesting though

1570

01:11:48,310 --> 01:11:45,760

scandium is very

1571

01:11:51,350 --> 01:11:48,320

rare element

1572

01:11:52,950 --> 01:11:51,360

so that it discovered that was very

1573

01:11:55,830 --> 01:11:52,960

strange

1574

01:11:59,110 --> 01:11:55,840

i must mention that it was only in these

1575

01:12:02,390 --> 01:11:59,120

two pictures and that was proposed

1576

01:12:04,229 --> 01:12:02,400

we have other optical spectrum which

1577

01:12:06,870 --> 01:12:04,239

shows something

1578

01:12:09,510 --> 01:12:06,880

else not continuous

1579

01:12:12,470 --> 01:12:09,520

um well well not

1580

01:12:13,750 --> 01:12:12,480

not in a way that it possible to pick up

1581

01:12:16,070 --> 01:12:13,760

the elements

1582

01:12:18,310 --> 01:12:16,080

right but it looked like a continuous

1583

01:12:20,470 --> 01:12:18,320

spectrum

1584

01:12:22,070 --> 01:12:20,480

well uh let me see

1585

01:12:27,110 --> 01:12:22,080

yeah this uh

1586

01:12:30,149 --> 01:12:27,120

this picture was uh aurora borealis

1587

01:12:32,709 --> 01:12:30,159

uh it was taken uh

1588

01:12:35,110 --> 01:12:32,719

on the date 20th of

1589

01:12:37,510 --> 01:12:35,120

september 2007

1590

01:12:38,950 --> 01:12:37,520

ten minutes past nine

1591

01:12:42,630 --> 01:12:38,960

uh

1592

01:12:46,790 --> 01:12:42,640

when you have this aurora borealis

1593

01:12:50,790 --> 01:12:46,800

there is a lot of magnetic activity in

1594

01:12:53,590 --> 01:12:50,800

the atmosphere yeah that's

1595

01:12:54,709 --> 01:12:53,600

that's natural that's that's common

1596

01:12:57,590 --> 01:12:54,719

um

1597

01:13:00,709 --> 01:12:57,600

so we know that during this

1598

01:13:04,229 --> 01:13:00,719

evening this night it was a high

1599

01:13:07,430 --> 01:13:04,239

magnetic activity

1600

01:13:09,430 --> 01:13:07,440

what happened 10 minutes after this

1601
01:13:10,470 --> 01:13:09,440
picture was taken

1602
01:13:13,750 --> 01:13:10,480
this was

1603
01:13:16,390 --> 01:13:13,760
taken 10 minutes past nine

1604
01:13:21,669 --> 01:13:16,400
uh 9 20

1605
01:13:23,910 --> 01:13:22,790
flashes

1606
01:13:24,790 --> 01:13:23,920
started

1607
01:13:26,790 --> 01:13:24,800
to

1608
01:13:30,390 --> 01:13:26,800
show up

1609
01:13:34,790 --> 01:13:33,110
was very short in duration

1610
01:13:37,990 --> 01:13:34,800
it could be

1611
01:13:39,669 --> 01:13:38,000
some minutes between each about five

1612
01:13:41,510 --> 01:13:39,679
minutes i think

1613
01:13:42,550 --> 01:13:41,520

uh in the beginning

1614

01:13:48,870 --> 01:13:42,560

and

1615

01:13:50,310 --> 01:13:48,880

flash was a little bit shorter

1616

01:13:53,189 --> 01:13:50,320

okay so the

1617

01:13:54,870 --> 01:13:53,199

time between the flashes becomes shorter

1618

01:13:57,350 --> 01:13:54,880

and shorter

1619

01:13:59,590 --> 01:13:57,360

this picture you see here

1620

01:14:00,709 --> 01:13:59,600

is a

1621

01:14:01,750 --> 01:14:00,719

picture

1622

01:14:03,510 --> 01:14:01,760

uh

1623

01:14:05,830 --> 01:14:03,520

which was set up

1624

01:14:07,750 --> 01:14:05,840

this is like the

1625

01:14:11,590 --> 01:14:07,760

camera system

1626
01:14:16,709 --> 01:14:11,600
was set up to run automatically it took

1627
01:14:21,430 --> 01:14:20,149
it was transferred to the computer

1628
01:14:24,709 --> 01:14:21,440
directly

1629
01:14:27,110 --> 01:14:24,719
and saved there this was running

1630
01:14:29,750 --> 01:14:27,120
automatically all the time

1631
01:14:32,550 --> 01:14:29,760
what you see here is a reference light

1632
01:14:35,189 --> 01:14:32,560
we had put a reference light onto

1633
01:14:37,990 --> 01:14:35,199
onto a mountain

1634
01:14:41,270 --> 01:14:38,000
which was could be seen and if you see

1635
01:14:42,470 --> 01:14:41,280
the colors up here you can analyze that

1636
01:14:45,669 --> 01:14:42,480
and see

1637
01:14:47,270 --> 01:14:45,679
what kind of elements what kind of lamp

1638
01:14:50,790 --> 01:14:47,280

we used

1639

01:14:54,870 --> 01:14:50,800

so the hope was that we managed to get

1640

01:14:57,990 --> 01:14:54,880

that reference light together with an

1641

01:14:58,870 --> 01:14:58,000

observation sure

1642

01:15:02,470 --> 01:14:58,880

yeah

1643

01:15:03,270 --> 01:15:02,480

what showed up was this

1644

01:15:07,510 --> 01:15:03,280

but

1645

01:15:09,910 --> 01:15:07,520

that happened that was another direction

1646

01:15:10,630 --> 01:15:09,920

than the reference light

1647

01:15:12,950 --> 01:15:10,640

and

1648

01:15:16,390 --> 01:15:12,960

where the camera was pointing

1649

01:15:20,310 --> 01:15:16,400

it was a completely different direction

1650

01:15:23,510 --> 01:15:20,320

so this movement the the we had to move

1651
01:15:26,470 --> 01:15:23,520
the camera during the exposure time

1652
01:15:27,590 --> 01:15:26,480
this light is from this

1653
01:15:30,550 --> 01:15:27,600
basic

1654
01:15:33,189 --> 01:15:30,560
camp in in the mountainside

1655
01:15:36,229 --> 01:15:33,199
and this is the reference light actually

1656
01:15:39,270 --> 01:15:36,239
which was actually down here

1657
01:15:41,750 --> 01:15:39,280
so during the exposure time they moved

1658
01:15:44,870 --> 01:15:41,760
the car they moved the direction of the

1659
01:15:47,990 --> 01:15:44,880
camera it was standing on tripod it

1660
01:15:51,830 --> 01:15:48,000
moved it during the exposure time so

1661
01:15:55,270 --> 01:15:51,840
this picture is

1662
01:15:57,270 --> 01:15:55,280
not correct in that way right

1663
01:15:59,910 --> 01:15:57,280

and you see the light which was

1664

01:16:02,950 --> 01:15:59,920

interesting up here but the movement is

1665

01:16:03,910 --> 01:16:02,960

maybe due to the movement of the camera

1666

01:16:06,630 --> 01:16:03,920

sure

1667

01:16:08,630 --> 01:16:06,640

but the next picture uh

1668

01:16:12,229 --> 01:16:08,640

they got this one

1669

01:16:13,510 --> 01:16:12,239

and then the camera was standing still

1670

01:16:15,590 --> 01:16:13,520

and you see

1671

01:16:17,110 --> 01:16:15,600

the optical spectrum

1672

01:16:19,669 --> 01:16:17,120

we had the camera

1673

01:16:22,310 --> 01:16:19,679

with the grating in front

1674

01:16:24,470 --> 01:16:22,320

so the colors of this light

1675

01:16:25,590 --> 01:16:24,480

can be seen down here

1676
01:16:28,709 --> 01:16:25,600
and it

1677
01:16:30,709 --> 01:16:28,719
seems to be some kind of continuous

1678
01:16:33,430 --> 01:16:30,719
optical spectrum

1679
01:16:34,870 --> 01:16:33,440
which could indicate some

1680
01:16:35,750 --> 01:16:34,880
heat

1681
01:16:37,830 --> 01:16:35,760
but

1682
01:16:41,669 --> 01:16:37,840
none has

1683
01:16:45,510 --> 01:16:41,679
ever reported of any heat from this

1684
01:16:50,709 --> 01:16:49,350
but after that outbreak and i mentioned

1685
01:16:51,910 --> 01:16:50,719
this

1686
01:16:56,709 --> 01:16:51,920
flashes

1687
01:16:59,110 --> 01:16:56,719
20

1688
01:17:01,669 --> 01:16:59,120

and 5 minutes between

1689

01:17:03,590 --> 01:17:01,679

each flash and they become

1690

01:17:05,669 --> 01:17:03,600

less and less

1691

01:17:07,830 --> 01:17:05,679

and at

1692

01:17:10,070 --> 01:17:07,840

nine

1693

01:17:12,870 --> 01:17:10,080

or very close to 10

1694

01:17:15,910 --> 01:17:12,880

9 58 you got that

1695

01:17:18,149 --> 01:17:15,920

it was two outbreaks and i call it

1696

01:17:19,910 --> 01:17:18,159

outbreak because it was

1697

01:17:22,790 --> 01:17:19,920

not only a flash

1698

01:17:24,790 --> 01:17:22,800

but this uh this big light

1699

01:17:27,910 --> 01:17:24,800

and after that

1700

01:17:28,830 --> 01:17:27,920

out i call it outbreak of light

1701
01:17:30,149 --> 01:17:28,840
nothing

1702
01:17:33,910 --> 01:17:30,159
was seen

1703
01:17:35,110 --> 01:17:33,920
it was only stars and so on

1704
01:17:36,470 --> 01:17:35,120
so

1705
01:17:37,189 --> 01:17:36,480
nothing

1706
01:17:42,470 --> 01:17:37,199
no

1707
01:17:43,430 --> 01:17:42,480
or or light or strange thing

1708
01:17:46,149 --> 01:17:43,440
it

1709
01:17:48,709 --> 01:17:46,159
seems to stop

1710
01:17:50,310 --> 01:17:48,719
uh we had uh

1711
01:17:51,910 --> 01:17:50,320
radar

1712
01:17:53,270 --> 01:17:51,920
also

1713
01:17:55,990 --> 01:17:53,280

looking

1714

01:17:56,950 --> 01:17:56,000

in the same direction and it's capture

1715

01:18:00,070 --> 01:17:56,960

it

1716

01:18:01,830 --> 01:18:00,080

and what at the radar location

1717

01:18:04,870 --> 01:18:01,840

uh this is the location where the

1718

01:18:08,470 --> 01:18:04,880

picture was taken right this was the

1719

01:18:10,470 --> 01:18:08,480

fincer and you see the light on them

1720

01:18:13,270 --> 01:18:10,480

finso was here

1721

01:18:16,630 --> 01:18:13,280

and the light was actually

1722

01:18:18,310 --> 01:18:16,640

behind or further away from

1723

01:18:21,750 --> 01:18:18,320

from uh

1724

01:18:24,310 --> 01:18:21,760

fincer

1725

01:18:26,870 --> 01:18:24,320

so but we have a station here too they

1726

01:18:29,030 --> 01:18:26,880

saw it in this direction so we could

1727

01:18:32,229 --> 01:18:29,040

could find out where it was

1728

01:18:36,709 --> 01:18:32,239

right there and the direction of the

1729

01:18:41,350 --> 01:18:36,719

size and so on 2.2 kilometers and so on

1730

01:18:44,630 --> 01:18:41,360

but anyway what's interesting this radar

1731

01:18:49,510 --> 01:18:44,640

was pointing in this direction

1732

01:18:51,270 --> 01:18:49,520

and it started to record

1733

01:18:52,870 --> 01:18:51,280

something

1734

01:18:55,830 --> 01:18:52,880

at

1735

01:18:57,910 --> 01:18:55,840

20 35 or

1736

01:19:02,390 --> 01:18:57,920

so that is

1737

01:19:03,590 --> 01:19:02,400

nearly one hour before the first flash

1738

01:19:04,950 --> 01:19:03,600

was seen

1739

01:19:07,350 --> 01:19:04,960

i mentioned

1740

01:19:10,870 --> 01:19:07,360

uh 21

1741

01:19:14,790 --> 01:19:10,880

uh 20 was the first splash scene

1742

01:19:23,030 --> 01:19:17,350

say there is something here

1743

01:19:27,669 --> 01:19:23,040

at 20 20 35 wow and this uh radar

1744

01:19:30,550 --> 01:19:27,679

recordings continued uh

1745

01:19:33,590 --> 01:19:30,560

all the time we saw the flashes

1746

01:19:35,030 --> 01:19:33,600

uh and also at the

1747

01:19:38,430 --> 01:19:35,040

10 o'clock

1748

01:19:43,990 --> 01:19:38,440

or 9 58 or

1749

01:19:50,630 --> 01:19:46,790

but the radar continued

1750

01:19:53,189 --> 01:19:50,640

even if we couldn't see any more flashes

1751

01:19:56,070 --> 01:19:53,199

or any lights at all

1752

01:19:57,030 --> 01:19:56,080

it continued for

1753

01:20:00,310 --> 01:19:57,040

i think

1754

01:20:02,229 --> 01:20:00,320

nearly one hour afterwards

1755

01:20:05,189 --> 01:20:02,239

before it stopped

1756

01:20:07,830 --> 01:20:05,199

so it seems that the phenomena had

1757

01:20:10,550 --> 01:20:07,840

come to the area

1758

01:20:12,790 --> 01:20:10,560

but we couldn't see it

1759

01:20:13,990 --> 01:20:12,800

nearly before one hour before this first

1760

01:20:17,110 --> 01:20:14,000

class

1761

01:20:18,470 --> 01:20:17,120

and it disappeared

1762

01:20:21,430 --> 01:20:18,480

more than one hour

1763

01:20:24,070 --> 01:20:21,440

after the last light we saw

1764

01:20:27,590 --> 01:20:24,080

then the camera didn't see it anymore or

1765

01:20:30,550 --> 01:20:27,600

the radar radar didn't see it anymore

1766

01:20:32,790 --> 01:20:30,560

yeah here's some the other one and we

1767

01:20:35,030 --> 01:20:32,800

have analyzed the different we are not

1768

01:20:37,669 --> 01:20:35,040

going the true culture or that we

1769

01:20:40,470 --> 01:20:37,679

analyze the optical spectrum

1770

01:20:43,189 --> 01:20:40,480

uh calibrated on uh

1771

01:20:44,830 --> 01:20:43,199

and it seems to be a lot of ultraviolet

1772

01:20:48,629 --> 01:20:44,840

uh line

1773

01:20:51,910 --> 01:20:48,639

um yeah that was one of the most

1774

01:20:53,430 --> 01:20:51,920

interesting observations i have had

1775

01:20:55,189 --> 01:20:53,440

in the

1776

01:20:56,550 --> 01:20:55,199

science camp

1777

01:20:58,629 --> 01:20:56,560

right

1778

01:20:59,669 --> 01:20:58,639

yeah i could mention that the science

1779

01:21:01,830 --> 01:20:59,679

camp

1780

01:21:03,430 --> 01:21:01,840

which in the beginning was a young

1781

01:21:05,590 --> 01:21:03,440

student

1782

01:21:08,629 --> 01:21:05,600

from high schools and so on

1783

01:21:10,229 --> 01:21:08,639

but now we have brought it into our

1784

01:21:13,830 --> 01:21:10,239

asphalt university college that

1785

01:21:15,110 --> 01:21:13,840

fieldwork in his town and here you can

1786

01:21:18,390 --> 01:21:15,120

choose a

1787

01:21:19,350 --> 01:21:18,400

study subject we call it

1788

01:21:20,790 --> 01:21:19,360

um

1789

01:21:23,669 --> 01:21:20,800

field work

1790

01:21:27,030 --> 01:21:23,679

right where they have to the student

1791

01:21:30,070 --> 01:21:27,040

need to prepare the field works out in

1792

01:21:32,390 --> 01:21:30,080

the field with the tents and all the

1793

01:21:35,110 --> 01:21:32,400

logistic

1794

01:21:36,950 --> 01:21:35,120

instruments uh we have the instruments

1795

01:21:37,990 --> 01:21:36,960

though but they have to

1796

01:21:40,870 --> 01:21:38,000

organize

1797

01:21:42,390 --> 01:21:40,880

everything right run a field work so

1798

01:21:44,070 --> 01:21:42,400

this is very

1799

01:21:47,590 --> 01:21:44,080

very uh

1800

01:21:56,629 --> 01:21:50,629

yeah that was uh maybe and now i come

1801
01:22:02,390 --> 01:21:58,709
the place in norway

1802
01:22:04,149 --> 01:22:02,400
where a track was set in the snow

1803
01:22:06,870 --> 01:22:04,159
this is the south

1804
01:22:09,669 --> 01:22:06,880
west of norway

1805
01:22:11,590 --> 01:22:09,679
in seatte stalls hyena

1806
01:22:14,070 --> 01:22:11,600
some people were standing in this

1807
01:22:17,110 --> 01:22:14,080
cottage that's where light was coming in

1808
01:22:19,669 --> 01:22:17,120
front of this uh hillside on the other

1809
01:22:22,229 --> 01:22:19,679
side of the lake and stopped and went

1810
01:22:25,030 --> 01:22:22,239
down to the snow it was snowed at that

1811
01:22:28,149 --> 01:22:25,040
time they saw it uh here's another

1812
01:22:32,310 --> 01:22:28,159
picture you see part of the uh

1813
01:22:34,070 --> 01:22:32,320

roof of this cottage yeah and the view

1814

01:22:37,750 --> 01:22:34,080

they saw it and the

1815

01:22:38,790 --> 01:22:37,760

black cross is where the light had been

1816

01:22:43,510 --> 01:22:38,800

moving

1817

01:22:46,709 --> 01:22:43,520

hillside on the other side of the lake

1818

01:22:49,990 --> 01:22:46,719

and stopped there went down on the snow

1819

01:22:53,189 --> 01:22:50,000

it was snow the rare and ice on the lake

1820

01:22:54,870 --> 01:22:53,199

it went down on the snow and made some

1821

01:22:57,990 --> 01:22:54,880

tracks in the snow

1822

01:23:00,870 --> 01:22:58,000

and you see the tracks here picture

1823

01:23:02,790 --> 01:23:00,880

about 60 centimeters wide this was

1824

01:23:06,790 --> 01:23:02,800

spiral formed

1825

01:23:08,070 --> 01:23:06,800

uh two and a half meter between each

1826
01:23:09,430 --> 01:23:08,080
and

1827
01:23:12,870 --> 01:23:09,440
the

1828
01:23:15,830 --> 01:23:12,880
snow

1829
01:23:17,270 --> 01:23:15,840
and it seems that actually in the track

1830
01:23:20,709 --> 01:23:17,280
the snow there

1831
01:23:24,390 --> 01:23:20,719
consisted of very few bacteria

1832
01:23:27,270 --> 01:23:24,400
those few bacteria who have survived i

1833
01:23:28,790 --> 01:23:27,280
call it that because it seems that

1834
01:23:30,229 --> 01:23:28,800
the all the other

1835
01:23:34,310 --> 01:23:30,239
bacteria

1836
01:23:36,149 --> 01:23:34,320
which are normal in snow had been killed

1837
01:23:37,350 --> 01:23:36,159
it didn't show up

1838
01:23:38,790 --> 01:23:37,360

but those

1839

01:23:41,350 --> 01:23:38,800

who showed up

1840

01:23:45,189 --> 01:23:41,360

was that another type of bacteria which

1841

01:23:48,870 --> 01:23:47,350

here you see some

1842

01:23:50,310 --> 01:23:48,880

you can

1843

01:23:52,870 --> 01:23:50,320

find out how much

1844

01:23:53,750 --> 01:23:52,880

bacteria there is by counting these dots

1845

01:23:58,070 --> 01:23:53,760

here

1846

01:24:00,310 --> 01:23:58,080

a sample of the snow between the tracks

1847

01:24:03,910 --> 01:24:00,320

in the middle not so far this is two and

1848

01:24:06,629 --> 01:24:03,920

a half meter between right uh so in the

1849

01:24:09,910 --> 01:24:06,639

middle is not so far away from the track

1850

01:24:12,950 --> 01:24:09,920

it seems to be normal bacteria as in a

1851

01:24:14,709 --> 01:24:12,960

reference further away

1852

01:24:17,270 --> 01:24:14,719

so

1853

01:24:21,110 --> 01:24:17,280

the bacteria hadn't been killed there it

1854

01:24:23,590 --> 01:24:21,120

had been killed just beneath the track

1855

01:24:25,830 --> 01:24:23,600

right that's incredible yeah

1856

01:24:26,870 --> 01:24:25,840

i mentioned i have been to other places

1857

01:24:30,070 --> 01:24:26,880

too is

1858

01:24:31,030 --> 01:24:30,080

in australia they call it the minimalist

1859

01:24:32,550 --> 01:24:31,040

yes

1860

01:24:33,830 --> 01:24:32,560

similar

1861

01:24:35,910 --> 01:24:33,840

light

1862

01:24:38,470 --> 01:24:35,920

blue flashes

1863

01:24:40,229 --> 01:24:38,480

manus i took this picture where you got

1864

01:24:42,229 --> 01:24:40,239

three

1865

01:24:43,189 --> 01:24:42,239

flashes

1866

01:24:45,270 --> 01:24:43,199

and

1867

01:24:48,709 --> 01:24:45,280

the reason why i managed to take that

1868

01:24:51,270 --> 01:24:48,719

picture is that when i was out in the

1869

01:24:54,629 --> 01:24:51,280

field there i believed i saw some

1870

01:24:58,310 --> 01:24:54,639

flashes but they're lost lasting so

1871

01:25:00,550 --> 01:24:58,320

short in time so we are not sure if

1872

01:25:04,390 --> 01:25:00,560

there is something or not

1873

01:25:06,950 --> 01:25:04,400

but i know also i knew from heston that

1874

01:25:11,430 --> 01:25:06,960

when they started to show up

1875

01:25:14,709 --> 01:25:11,440

uh very likely that they continue so not

1876

01:25:16,550 --> 01:25:14,719

only one flash but several flashes

1877

01:25:17,669 --> 01:25:16,560

coming in a very

1878

01:25:19,669 --> 01:25:17,679

in a

1879

01:25:21,750 --> 01:25:19,679

short period of time

1880

01:25:23,270 --> 01:25:21,760

so i took the picture and managed to

1881

01:25:25,590 --> 01:25:23,280

capture

1882

01:25:28,070 --> 01:25:25,600

some of the flashes

1883

01:25:29,709 --> 01:25:28,080

here's another flashlight

1884

01:25:31,510 --> 01:25:29,719

yeah i could mention i had some

1885

01:25:34,390 --> 01:25:31,520

magnetometer mid

1886

01:25:37,669 --> 01:25:34,400

to the measure earth magnetic field and

1887

01:25:40,550 --> 01:25:37,679

this was x very exciting the day

1888

01:25:42,629 --> 01:25:40,560

we had the most observation we had four

1889

01:25:46,149 --> 01:25:42,639

observation of the most

1890

01:25:47,590 --> 01:25:46,159

one of the nights we were out there

1891

01:25:48,709 --> 01:25:47,600

and

1892

01:25:49,990 --> 01:25:48,719

the blue

1893

01:25:52,310 --> 01:25:50,000

are the

1894

01:25:55,669 --> 01:25:52,320

the black arrows indicate where we had

1895

01:25:58,950 --> 01:25:55,679

the observation and

1896

01:26:00,470 --> 01:25:58,960

see that the magnetic field increased in

1897

01:26:03,510 --> 01:26:00,480

intensity

1898

01:26:05,830 --> 01:26:03,520

the the size of this

1899

01:26:08,390 --> 01:26:05,840

this green

1900

01:26:10,550 --> 01:26:08,400

you can look at the green stuff

1901

01:26:13,430 --> 01:26:10,560

uh it's

1902

01:26:16,709 --> 01:26:13,440

very big yeah yeah

1903

01:26:19,910 --> 01:26:16,719

and here just here we and then this was

1904

01:26:21,669 --> 01:26:19,920

recorded onto a writer

1905

01:26:24,470 --> 01:26:21,679

this was uh

1906

01:26:25,910 --> 01:26:24,480

before you have these laptops where you

1907

01:26:28,310 --> 01:26:25,920

can

1908

01:26:30,070 --> 01:26:28,320

bring with you and record everything

1909

01:26:31,750 --> 01:26:30,080

onto the laptop

1910

01:26:34,310 --> 01:26:31,760

we had a

1911

01:26:35,110 --> 01:26:34,320

writer with paper

1912

01:26:37,590 --> 01:26:35,120

which

1913

01:26:40,310 --> 01:26:37,600

wrote down

1914

01:26:42,149 --> 01:26:40,320

the signals from the magnetical sensor

1915

01:26:43,270 --> 01:26:42,159

we had with us

1916

01:26:45,750 --> 01:26:43,280

and

1917

01:26:49,910 --> 01:26:45,760

i wanted to know how far

1918

01:26:53,110 --> 01:26:49,920

fast this moved so i increased the speed

1919

01:26:56,629 --> 01:26:53,120

of the writer just here

1920

01:26:58,470 --> 01:26:56,639

so i could find the frequency and it was

1921

01:27:00,790 --> 01:26:58,480

a 2 hertz

1922

01:27:01,830 --> 01:27:00,800

and then i went back to normal speed

1923

01:27:04,550 --> 01:27:01,840

again

1924

01:27:05,669 --> 01:27:04,560

so this is that was strange

1925

01:27:08,229 --> 01:27:05,679

wow

1926

01:27:11,590 --> 01:27:08,239

i could also mention that we had power

1927

01:27:13,510 --> 01:27:11,600

failures i could also mention that uh i

1928

01:27:14,310 --> 01:27:13,520

mentioned that in heston

1929

01:27:15,830 --> 01:27:14,320

but

1930

01:27:19,270 --> 01:27:15,840

i didn't

1931

01:27:22,550 --> 01:27:19,280

tell about the batteries

1932

01:27:23,669 --> 01:27:22,560

very often we had batteries problems

1933

01:27:27,510 --> 01:27:23,679

we

1934

01:27:29,990 --> 01:27:27,520

put new batteries into our equipment

1935

01:27:31,189 --> 01:27:30,000

those who needed the battery

1936

01:27:33,590 --> 01:27:31,199

when we go

1937

01:27:35,590 --> 01:27:33,600

before we go out in the field

1938

01:27:37,189 --> 01:27:35,600

and when we are out in the field they

1939

01:27:38,310 --> 01:27:37,199

stopped working

1940

01:27:40,629 --> 01:27:38,320

wow

1941

01:27:45,189 --> 01:27:42,310

and it seems to be

1942

01:27:46,550 --> 01:27:45,199

no power at all

1943

01:27:49,110 --> 01:27:46,560

and uh

1944

01:27:52,470 --> 01:27:49,120

we had several batteries we we changed

1945

01:27:56,870 --> 01:27:52,480

batteries uh all the time

1946

01:27:58,390 --> 01:27:56,880

to get fresh and but i lasted very short

1947

01:28:01,030 --> 01:27:58,400

and

1948

01:28:03,830 --> 01:28:01,040

we had a bunch of batteries we thought

1949

01:28:05,669 --> 01:28:03,840

we we have to throw them away there are

1950

01:28:06,470 --> 01:28:05,679

no power left

1951

01:28:09,030 --> 01:28:06,480

right

1952

01:28:11,030 --> 01:28:09,040

but we decided to

1953

01:28:14,629 --> 01:28:11,040

just check

1954

01:28:18,629 --> 01:28:14,639

if there was really empty

1955

01:28:21,910 --> 01:28:18,639

but we measured they were full

1956

01:28:24,470 --> 01:28:21,920

voltage again that's right so when the

1957

01:28:25,910 --> 01:28:24,480

battery was out in the field

1958

01:28:28,550 --> 01:28:25,920

it didn't

1959

01:28:31,110 --> 01:28:28,560

have any voltage at all

1960

01:28:33,270 --> 01:28:31,120

but when it was

1961

01:28:34,550 --> 01:28:33,280

back from the field not in the field

1962

01:28:39,350 --> 01:28:34,560

anymore

1963

01:28:43,910 --> 01:28:41,350

yeah this is another thing from

1964

01:28:45,669 --> 01:28:43,920

headstone

1965

01:28:48,629 --> 01:28:45,679

it's a big

1966

01:28:49,750 --> 01:28:48,639

piece of wet soil which was

1967

01:28:51,590 --> 01:28:49,760

moved

1968

01:28:53,430 --> 01:28:51,600

from

1969

01:28:55,350 --> 01:28:53,440

this place

1970

01:28:58,870 --> 01:28:55,360

not so very far

1971

01:29:02,790 --> 01:28:58,880

but the strange thing it was big

1972

01:29:03,669 --> 01:29:02,800

and it was moved in one piece

1973

01:29:09,030 --> 01:29:03,679

no one

1974

01:29:10,790 --> 01:29:09,040

saw them none none saw the movement

1975

01:29:12,070 --> 01:29:10,800

but

1976

01:29:17,990 --> 01:29:12,080

they saw

1977

01:29:25,189 --> 01:29:22,950

at a hunting season and they found this

1978

01:29:26,870 --> 01:29:25,199

and it was uh

1979

01:29:29,110 --> 01:29:26,880

really strange

1980

01:29:30,390 --> 01:29:29,120

that such big

1981

01:29:32,790 --> 01:29:30,400

piece

1982

01:29:34,629 --> 01:29:32,800

of red soil could be

1983

01:29:36,830 --> 01:29:34,639

moved out

1984

01:29:39,350 --> 01:29:36,840

and moved some meters

1985

01:29:42,470 --> 01:29:39,360

without damage

1986

01:29:46,070 --> 01:29:42,480

yeah you see it is one piece that was

1987

01:29:50,870 --> 01:29:48,629

this is uh strange

1988

01:29:53,189 --> 01:29:50,880

picture taking in the daytime

1989

01:29:53,199 --> 01:29:56,390

so

1990

01:29:59,110 --> 01:29:57,830

it was seen

1991

01:30:02,550 --> 01:29:59,120

when

1992

01:30:06,629 --> 01:30:03,990

afterwards

1993

01:30:08,629 --> 01:30:06,639

right and the strange thing as this cube

1994

01:30:11,830 --> 01:30:08,639

the black thing is towards the sun the

1995

01:30:14,550 --> 01:30:11,840

sun is coming from this direction and

1996

01:30:17,990 --> 01:30:14,560

the black thing is to that

1997

01:30:21,990 --> 01:30:18,000

yeah i can we are finished now a lot of

1998

01:30:23,910 --> 01:30:22,000

things speculation of course uh

1999

01:30:26,310 --> 01:30:23,920

yeah we're not going through that i

2000

01:30:27,189 --> 01:30:26,320

think we we finished there

2001

01:30:28,550 --> 01:30:27,199

so

2002

01:30:30,229 --> 01:30:28,560

we managed

2003

01:30:33,669 --> 01:30:30,239

to finish

2004

01:30:34,550 --> 01:30:33,679

let me see if i can yeah you can uh

2005

01:30:35,350 --> 01:30:34,560

yeah

2006

01:30:40,470 --> 01:30:35,360

not

2007

01:30:42,629 --> 01:30:40,480

so

2008

01:30:44,310 --> 01:30:42,639

anybody that wants to anybody that wants

2009

01:30:45,910 --> 01:30:44,320

to actually sort of keep up to date with

2010

01:30:46,870 --> 01:30:45,920

what's going on is it the best thing to

2011

01:30:49,590 --> 01:30:46,880

do is to

2012

01:30:51,110 --> 01:30:49,600

to visit the uh project hairstyle and

2013

01:30:55,830 --> 01:30:51,120

website just is that right

2014

01:30:58,629 --> 01:30:57,110

i'll make sure to put that in the

2015

01:31:00,830 --> 01:30:58,639

description of the video when i when i

2016

01:31:04,310 --> 01:31:00,840

post it on youtube as well

2017

01:31:06,950 --> 01:31:04,320

yes so people can just click it direct

2018

01:31:11,430 --> 01:31:08,790

well listen erling thank you so much

2019

01:31:13,669 --> 01:31:11,440

that was absolutely fascinating

2020

01:31:15,270 --> 01:31:13,679

and uh i just wish you nothing but the

2021

01:31:17,350 --> 01:31:15,280

best in the future for for your

2022

01:31:18,470 --> 01:31:17,360

continued work

2023

01:31:20,390 --> 01:31:18,480

thank you

2024

01:31:22,229 --> 01:31:20,400

and uh i will be keeping up to date with

2025

01:31:24,310 --> 01:31:22,239

with the website and and that so maybe

2026

01:31:26,229 --> 01:31:24,320

in the future if you have some some new

2027

01:31:29,030 --> 01:31:26,239

results then maybe we can speak again on

2028

01:31:33,830 --> 01:31:31,910

very yeah thank you ever so much i i

2029

01:31:36,790 --> 01:31:33,840

really appreciate your time

2030

01:31:38,149 --> 01:31:36,800

yeah great thank you thank you for

2031

01:31:40,629 --> 01:31:38,159

having me