



1
00:00:11,030 --> 00:00:08,230
can you show me apply to the

2
00:00:12,709 --> 00:00:11,040
more recent wind data there

3
00:00:15,030 --> 00:00:12,719
can't stand by one

4
00:00:18,230 --> 00:00:16,390
and winds is all that we're worried

5
00:00:22,550 --> 00:00:18,240
about at ksc and it'd be a headwind on

6
00:00:25,750 --> 00:00:24,550
two two two three so it would be almost

7
00:00:27,429 --> 00:00:25,760
all headwind

8
00:00:29,269 --> 00:00:27,439
last six hours

9
00:00:31,429 --> 00:00:29,279
and what we have here is just the last

10
00:00:33,350 --> 00:00:31,439
six hours yep

11
00:00:35,510 --> 00:00:33,360
and it's

12
00:00:37,590 --> 00:00:35,520
again where i have the cursor on with

13
00:00:39,670 --> 00:00:37,600

the bottom graph the the top is the peak

14

00:00:41,510 --> 00:00:39,680

and the bottom is the average

15

00:00:43,670 --> 00:00:41,520

so we've had some some walls some peaks

16

00:00:45,830 --> 00:00:43,680

and balls in here but overall it's been

17

00:00:47,830 --> 00:00:45,840

fairly i wouldn't say fairly consistent

18

00:00:49,670 --> 00:00:47,840

but we just

19

00:00:51,350 --> 00:00:49,680

we had one peak up here at about 25

20

00:00:53,110 --> 00:00:51,360

knots about three hours ago and then we

21

00:00:54,869 --> 00:00:53,120

had a lull

22

00:00:57,270 --> 00:00:54,879

i mean i'm already at 25 knots on my

23

00:00:58,869 --> 00:00:57,280

peaks aren't i at 25 knots on the on the

24

00:01:00,630 --> 00:00:58,879

peak and i would think you're probably

25

00:01:02,069 --> 00:01:00,640

going to see something kind of like this

26

00:01:03,110 --> 00:01:02,079

or it's going to come back down again

27

00:01:04,469 --> 00:01:03,120

but

28

00:01:11,510 --> 00:01:04,479

you're probably peaking to around 20

29

00:01:13,429 --> 00:01:12,469

okay

30

00:01:14,789 --> 00:01:13,439

um

31

00:01:16,390 --> 00:01:14,799

i guess what i'm taking away on that one

32

00:01:19,109 --> 00:01:16,400

conus weather is that edwards is already

33

00:01:20,789 --> 00:01:19,119

very breezy he updated your forecast 14

34

00:01:22,870 --> 00:01:20,799

feet 21

35

00:01:25,429 --> 00:01:22,880

and there is uh no fuzz on that one it

36

00:01:27,910 --> 00:01:25,439

is uh it is a breezy day already

37

00:01:29,590 --> 00:01:27,920

yeah it is a breezy day already but

38

00:01:31,590 --> 00:01:29,600

i would expect that inversion to

39

00:01:34,149 --> 00:01:31,600

increase a little bit and

40

00:01:36,149 --> 00:01:34,159

that would be working in our favor

41

00:01:37,749 --> 00:01:36,159

but but i mean

42

00:01:39,109 --> 00:01:37,759

not really decreasing the winds by that

43

00:01:41,590 --> 00:01:39,119

much but it just again it seems like

44

00:01:45,190 --> 00:01:41,600

that 224 is somewhat somewhat of an

45

00:01:49,270 --> 00:01:47,749

this 238 opportunity versus 239 at

46

00:01:52,830 --> 00:01:49,280

edwards uh

47

00:01:56,389 --> 00:01:54,950

difference you know in your forecast you

48

00:01:58,149 --> 00:01:56,399

have them grouped together i have them

49

00:02:00,230 --> 00:01:58,159

grouped together but

50

00:02:02,069 --> 00:02:00,240

it's really hard to say but i would say

51
00:02:03,590 --> 00:02:02,079
the overall trend would be for just as

52
00:02:05,109 --> 00:02:03,600
we go on in time

53
00:02:07,190 --> 00:02:05,119
that the winds would pick up a couple of

54
00:02:09,430 --> 00:02:07,200
knots okay

55
00:02:10,869 --> 00:02:09,440
it's really hard to uh to pinpoint just

56
00:02:12,150 --> 00:02:10,879
because you know we do have these peaks

57
00:02:13,830 --> 00:02:12,160
and balls and the winds out there but

58
00:02:15,910 --> 00:02:13,840
the overall trend would be just that the

59
00:02:17,430 --> 00:02:15,920
later that we go the winds would be

60
00:02:20,830 --> 00:02:17,440
increasing a couple knots from the first

61
00:02:24,390 --> 00:02:20,840
opportunity to the second opportunity

62
00:02:25,910 --> 00:02:24,400
okay okay let's see uh take me back to

63
00:02:27,190 --> 00:02:25,920

ksc

64

00:02:28,949 --> 00:02:27,200

right now

65

00:02:30,309 --> 00:02:28,959

and how uh

66

00:02:31,350 --> 00:02:30,319

not right yeah

67

00:02:32,790 --> 00:02:31,360

for now

68

00:02:35,190 --> 00:02:32,800

not in the future

69

00:02:36,790 --> 00:02:35,200

uh and how we're doing at ksc with the

70

00:02:38,790 --> 00:02:36,800

rain showers

71

00:02:39,589 --> 00:02:38,800

and the ceilings and when do we expect

72

00:02:43,670 --> 00:02:39,599

to get

73

00:02:49,350 --> 00:02:46,229

big mouthful there sorry

74

00:02:52,070 --> 00:02:49,360

yeah the sun's just coming up

75

00:02:53,430 --> 00:02:52,080

and so probably about another 30 30 to

76

00:02:54,630 --> 00:02:53,440

45 minutes before we start to get the

77

00:02:58,070 --> 00:02:54,640

visible shot

78

00:03:00,550 --> 00:02:58,080

uh but we still have one shower

79

00:03:02,550 --> 00:03:00,560

that has redeveloped and we had we had

80

00:03:05,270 --> 00:03:02,560

that one area that that

81

00:03:06,630 --> 00:03:05,280

didn't last very long but uh we have

82

00:03:08,630 --> 00:03:06,640

seen just one shower that has

83

00:03:11,030 --> 00:03:08,640

redeveloped with that but whether what

84

00:03:13,430 --> 00:03:11,040

i'm hearing you say is that uh edwards

85

00:03:15,350 --> 00:03:13,440

is okay a little breezy two three eight

86

00:03:17,670 --> 00:03:15,360

two three nine casey however we're

87

00:03:19,509 --> 00:03:17,680

thinking is probably gonna be okay you

88

00:03:21,589 --> 00:03:19,519

do still have a chance of showers and

89

00:03:24,390 --> 00:03:21,599

your forecast for uh

90

00:03:27,030 --> 00:03:24,400

kfc 2 3 8 i assume you want to look at

91

00:03:28,789 --> 00:03:27,040

that a bit longer before you

92

00:03:33,270 --> 00:03:28,799

do anything with that is that accurate

93

00:03:34,550 --> 00:03:33,280

affirmative once i start to get some

94

00:03:35,670 --> 00:03:34,560

visible satellite pictures in here we

95

00:03:37,030 --> 00:03:35,680

can see if there's any more boundaries

96

00:03:38,309 --> 00:03:37,040

that's that's in there that will be able

97

00:03:39,190 --> 00:03:38,319

to help us uh

98

00:03:40,789 --> 00:03:39,200

kind of see if there's anything

99

00:03:41,990 --> 00:03:40,799

developing okay maybe we'll get

100

00:03:44,470 --> 00:03:42,000

something out of the sta that'll be

101
00:03:47,270 --> 00:03:44,480
helpful too affirmative

102
00:03:49,830 --> 00:03:47,280
okay copy all thank you conus weather

103
00:03:51,910 --> 00:03:49,840
um let's see fido given uh

104
00:03:53,350 --> 00:03:51,920
given the forecast there that casey's

105
00:03:54,789 --> 00:03:53,360
looking pretty good

106
00:03:56,630 --> 00:03:54,799
and we're gonna know more when the sun

107
00:03:58,309 --> 00:03:56,640
comes up here shortly it's not up

108
00:04:00,949 --> 00:03:58,319
already

109
00:04:04,149 --> 00:04:00,959
pretty close um let's focus this

110
00:04:06,550 --> 00:04:04,159
opportunity on ksc 238

111
00:04:09,910 --> 00:04:06,560
and uh we'll if we need to talk about

112
00:04:12,070 --> 00:04:09,920
the next one to edwards 239 we have to

113
00:04:14,949 --> 00:04:12,080

we'll evaluate tomorrow and how the crew

114

00:04:17,990 --> 00:04:14,959

is doing for that discussion

115

00:04:21,349 --> 00:04:18,000

copy that but for 238 let's look at ksc

116

00:04:24,390 --> 00:04:22,629

flight fido

117

00:04:25,510 --> 00:04:24,400

can you uh have your folks look at a one

118

00:04:27,350 --> 00:04:25,520

um

119

00:04:29,189 --> 00:04:27,360

sorry three three straight in see if

120

00:04:31,189 --> 00:04:29,199

that would flop back to the other side

121

00:04:33,350 --> 00:04:31,199

and make me feel any better about any

122

00:04:35,830 --> 00:04:33,360

rain out over the water i will do that

123

00:04:37,510 --> 00:04:35,840

and also had a question on the two three

124

00:04:39,510 --> 00:04:37,520

eight opportunity for edwards do you

125

00:04:42,310 --> 00:04:39,520

want to have the convoy not move into

126

00:04:43,749 --> 00:04:42,320

position for two three eight for

127

00:04:49,510 --> 00:04:43,759

edward's landing

128

00:04:53,110 --> 00:04:51,670

um

129

00:04:55,110 --> 00:04:53,120

does it hurt it doesn't hurt to have

130

00:04:57,189 --> 00:04:55,120

them move in i don't think it does

131

00:04:59,110 --> 00:04:57,199

so if we end up on 239 they're they're

132

00:05:00,550 --> 00:04:59,120

an hour and a half really yeah so let's

133

00:05:05,189 --> 00:05:00,560

go ahead and have them in place

134

00:05:09,270 --> 00:05:07,270

discovery houston you are go for fluid

135

00:05:10,629 --> 00:05:09,280

loading and uh we're just getting

136

00:05:12,790 --> 00:05:10,639

fergie's uh

137

00:05:15,270 --> 00:05:12,800

final thoughts right now but the

138

00:05:17,990 --> 00:05:15,280

trend continues to improve at kennedy

139

00:05:19,909 --> 00:05:18,000

space center and the concern with the

140

00:05:21,830 --> 00:05:19,919

showers within 30 although we're still

141

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

watching it they do appear to be moving

142

00:05:26,950 --> 00:05:23,520

off to the east and they're now outside

143

00:05:32,710 --> 00:05:29,749

that's great news cj thank you very much

144

00:05:34,710 --> 00:05:32,720

dex we are also looking at the fog

145

00:05:37,029 --> 00:05:34,720

situation again to watch these factors

146

00:05:38,629 --> 00:05:37,039

very closely and i'll provide you with

147

00:05:43,749 --> 00:05:38,639

further updates but we want you to

148

00:05:43,759 --> 00:05:46,550

we're doing it

149

00:05:51,350 --> 00:05:48,790

out to 30 miles the

150

00:05:53,430 --> 00:05:51,360

cell that was right on that edge was uh

151
00:05:56,150 --> 00:05:53,440
tops to 17 000

152
00:05:58,230 --> 00:05:56,160
and basically said that from that point

153
00:06:00,550 --> 00:05:58,240
down to about a three mile

154
00:06:02,790 --> 00:06:00,560
point south of the field which basically

155
00:06:04,950 --> 00:06:02,800
puts it on a zero six zero orientation

156
00:06:06,390 --> 00:06:04,960
from the field to the that cell there

157
00:06:09,510 --> 00:06:06,400
was a

158
00:06:12,870 --> 00:06:09,520
a cloud deck that basically built

159
00:06:16,390 --> 00:06:12,880
from about 3000 feet up to that

160
00:06:18,150 --> 00:06:16,400
cell that was that was blow off

161
00:06:19,029 --> 00:06:18,160
that currently has been

162
00:06:23,029 --> 00:06:19,039
moving

163
00:06:24,550 --> 00:06:23,039

to the south uh on his last run that uh

164

00:06:27,270 --> 00:06:24,560

three thousand foot layer actually

165

00:06:30,150 --> 00:06:27,280

obscured the uh the papi's but again it

166

00:06:32,150 --> 00:06:30,160

was just a bad timing thing where it was

167

00:06:35,510 --> 00:06:32,160

between the uh or on the outer glide

168

00:06:37,510 --> 00:06:35,520

slope uh between the aircraft and the

169

00:06:40,150 --> 00:06:37,520

papi itself they just recently took a

170

00:06:42,870 --> 00:06:40,160

pass by it on the outer glide path and

171

00:06:45,670 --> 00:06:42,880

that effect has cleared so it was just a

172

00:06:48,150 --> 00:06:45,680

bad timing thing

173

00:06:49,670 --> 00:06:48,160

did another run to on his last run of

174

00:06:51,430 --> 00:06:49,680

3-3

175

00:06:53,350 --> 00:06:51,440

he saw no issue

176

00:06:55,990 --> 00:06:53,360

other than that one cloud

177

00:06:57,029 --> 00:06:56,000

he basically went in at 5 000 out at 3

178

00:06:58,070 --> 00:06:57,039

200

179

00:07:03,110 --> 00:06:58,080

and

180

00:07:04,629 --> 00:07:03,120

seeing moving south so again

181

00:07:07,189 --> 00:07:04,639

not an issue

182

00:07:09,029 --> 00:07:07,199

all the data from the run

183

00:07:12,629 --> 00:07:09,039

turbulent surface winds everything was

184

00:07:14,790 --> 00:07:12,639

light workload was uh was negligible so

185

00:07:17,110 --> 00:07:14,800

sta pilots happy with the conditions of

186

00:07:19,830 --> 00:07:17,120

the field

187

00:07:21,350 --> 00:07:19,840

okay and we'll continue to monitor that

188

00:07:23,430 --> 00:07:21,360

line of clouds there to the south

189

00:07:25,270 --> 00:07:23,440

running towards the east

190

00:07:26,870 --> 00:07:25,280

see what it does for us but at this

191

00:07:28,550 --> 00:07:26,880

point that's moving south and the sta

192

00:07:30,550 --> 00:07:28,560

guys are

193

00:07:31,909 --> 00:07:30,560

seeing some good results out there

194

00:07:35,110 --> 00:07:31,919

okay appreciate that codex weather

195

00:07:38,870 --> 00:07:36,550

it's like on this weather on flight lube

196

00:07:41,670 --> 00:07:38,880

sir get a status from you on uh current

197

00:07:43,749 --> 00:07:41,680

knobs and uh what you're observing

198

00:07:45,990 --> 00:07:43,759

currently we are

199

00:07:47,589 --> 00:07:46,000

we have a go for a go observation a few

200

00:07:50,309 --> 00:07:47,599

at two thousand

201
00:07:53,110 --> 00:07:50,319
view at thirty eight hundred

202
00:07:54,629 --> 00:07:53,120
few at seven thousand

203
00:07:56,390 --> 00:07:54,639
visibility

204
00:07:57,270 --> 00:07:56,400
ten miles still reporting some shallow

205
00:07:58,710 --> 00:07:57,280
fog

206
00:08:00,070 --> 00:07:58,720
but 30 minutes ago they were reporting

207
00:08:01,990 --> 00:08:00,080
eight miles so we've gone from eight to

208
00:08:05,350 --> 00:08:02,000
ten miles good news

209
00:08:07,749 --> 00:08:05,360
and winds three two zero at three

210
00:08:09,990 --> 00:08:07,759
peak to four knots

211
00:08:10,869 --> 00:08:10,000
and those showers that were within 30

212
00:08:12,869 --> 00:08:10,879
have

213
00:08:13,990 --> 00:08:12,879

dissipated so that is a go observation

214

00:08:15,749 --> 00:08:14,000

and i will be

215

00:08:18,710 --> 00:08:15,759

amending the forecast to remove the

216

00:08:20,469 --> 00:08:18,720

chance of showers within 30 miles

217

00:08:23,749 --> 00:08:20,479

okay uh

218

00:08:25,430 --> 00:08:23,759

you will be or you are i i actually have

219

00:08:27,830 --> 00:08:25,440

you have very good so you are go

220

00:08:28,869 --> 00:08:27,840

observed and go forecast affirmative

221

00:08:39,269 --> 00:08:28,879

okay

222

00:08:40,630 --> 00:08:39,279

out there monitoring for us so uh

223

00:08:41,670 --> 00:08:40,640

right now we're go observe and go

224

00:08:43,589 --> 00:08:41,680

forecast

225

00:08:44,550 --> 00:08:43,599

affirmative yeah you know even before

226

00:08:45,670 --> 00:08:44,560

those uh

227

00:08:47,190 --> 00:08:45,680

those clouds at the south end of the

228

00:08:48,790 --> 00:08:47,200

runway but again those will be moving to

229

00:08:50,630 --> 00:08:48,800

the south so we're looking really good

230

00:08:52,070 --> 00:08:50,640

with that

231

00:08:55,110 --> 00:08:52,080

fantastic

232

00:08:57,190 --> 00:08:55,120

uh fido so we're looking for a 3-3 set

233

00:08:59,110 --> 00:08:57,200

up here uh right overhead

234

00:09:00,550 --> 00:08:59,120

and we'll continue to press towards that

235

00:09:01,590 --> 00:09:00,560

but uh things are looking real good

236

00:09:04,550 --> 00:09:01,600

folks

237

00:09:07,030 --> 00:09:04,560

i see us guidance at the top of 6-4

238

00:09:08,470 --> 00:09:07,040

waiting uh for the a14 actions prior to

239

00:09:11,990 --> 00:09:08,480

t minus 15.

240

00:09:17,030 --> 00:09:14,470

let's see folks do want to uh get your

241

00:09:18,550 --> 00:09:17,040

go no go for the deorbit burn

242

00:09:21,110 --> 00:09:18,560

i'ma come around the room and get your

243

00:09:24,550 --> 00:09:21,120

go no go for the door burn uh gc go

244

00:09:28,630 --> 00:09:24,560

guidance go go prop go cnc go max go

245

00:09:32,310 --> 00:09:28,640

eagle go econ go fao go aco go cps go

246

00:09:34,829 --> 00:09:32,320

and go gail surgeon go figure us

247

00:09:38,550 --> 00:09:34,839

pdrs booster good know

248

00:09:39,910 --> 00:09:38,560

me even look like a pediatricist p.a.o

249

00:09:45,949 --> 00:09:39,920

go

250

00:09:45,959 --> 00:09:57,030

fight break up

251
00:10:02,829 --> 00:09:58,470
uh capcom let's go ahead and give the

252
00:10:12,310 --> 00:10:05,750
ksc238 discovery houston you are go for

253
00:10:12,320 --> 00:10:22,710
discovery copies go for the oven

254
00:10:26,230 --> 00:10:24,069
two engines arm press good config for

255
00:10:30,949 --> 00:10:26,240
the burn discovery houston good config

256
00:10:30,959 --> 00:10:33,910
hanging over

257
00:10:40,470 --> 00:10:35,430
like proper burning two good engines

258
00:10:43,750 --> 00:10:42,470
good burn no trim acquired happy good

259
00:10:48,069 --> 00:10:43,760
burn

260
00:10:53,030 --> 00:10:51,829
happy good turn okay folks over on 3-32

261
00:10:55,829 --> 00:10:53,040
post burn

262
00:11:07,269 --> 00:10:55,839
property delta's postpartum config

263
00:11:17,030 --> 00:11:08,949

go for command

264

00:11:21,350 --> 00:11:19,990

uh fergie is still reporting uh

265

00:11:22,949 --> 00:11:21,360

the little puffies i was telling you

266

00:11:25,030 --> 00:11:22,959

about over the three three in and we're

267

00:11:40,829 --> 00:11:25,040

considering a redesign words in just a

268

00:11:44,949 --> 00:11:42,790

thanks

269

00:11:47,190 --> 00:11:44,959

try to remind me the commander has glare

270

00:11:49,590 --> 00:11:47,200

on the one five end that's right flight

271

00:11:50,790 --> 00:11:49,600

in addition we've got the max bank of 60

272

00:11:53,670 --> 00:11:50,800

degrees

273

00:11:55,269 --> 00:11:53,680

and would prefer to delay to the 180 due

274

00:11:58,629 --> 00:11:55,279

to the altitude error low we're going to

275

00:11:58,639 --> 00:12:01,269

oh myla

276

00:12:05,350 --> 00:12:02,949

flight guidance now it's looking real

277

00:12:06,790 --> 00:12:05,360

good and the crew is going to take taken

278

00:12:08,069 --> 00:12:06,800

and gps

279

00:12:14,150 --> 00:12:08,079

let's take them both we're going to

280

00:12:14,160 --> 00:12:19,269

take tech hands take gps

281

00:12:29,590 --> 00:12:21,430

discovery uh we're gonna stay on runway

282

00:12:36,150 --> 00:12:32,550

discovery houston energy ground track

283

00:12:41,190 --> 00:12:36,160

and nav are go touching down 2700 feet

284

00:12:45,750 --> 00:12:42,790

houston thanks a lot

285

00:12:48,069 --> 00:12:45,760

we are on energy approaching the hack

286

00:12:50,710 --> 00:12:48,079

happy gnc advisories no advisors late we

287

00:12:55,670 --> 00:12:50,720

got a good repo good repo max nominal

288

00:13:00,870 --> 00:12:58,470

discovery houston you are on energy

289

00:13:02,150 --> 00:13:00,880

approaching the hack no changes to winds

290

00:13:09,590 --> 00:13:02,160

and weather

291

00:13:20,470 --> 00:13:11,190

alrighty folks here we go coming up on

292

00:13:27,269 --> 00:13:22,949

on at the 180

293

00:13:35,110 --> 00:13:29,110

down at the 180.

294

00:13:38,389 --> 00:13:36,710

commander is back to flying

295

00:13:41,670 --> 00:13:38,399

copy

296

00:14:01,110 --> 00:13:41,680

on it to 90 90. discovery you are on at

297

00:14:10,550 --> 00:14:03,590

for the room on glideslope on centerline

298

00:14:10,560 --> 00:14:25,430

gears down unlocked happy

299

00:14:25,440 --> 00:14:34,470

main gear touchdown

300

00:14:38,949 --> 00:14:36,870

no secure touchdown ground speed enabled

301

00:14:41,430 --> 00:14:38,959

copy looking for post landing delta's

302

00:14:49,910 --> 00:14:41,440

max none eagle none

303

00:14:49,920 --> 00:14:59,750

no post landing deltas minimum 5-3

304

00:15:05,030 --> 00:15:02,790

roger wheel stop discovery welcome home

305

00:15:07,269 --> 00:15:05,040

dex congratulations to you and the crew

306

00:15:08,790 --> 00:15:07,279

on an outstanding mission

307

00:15:11,430 --> 00:15:08,800

there are no immediate post landing

308

00:15:15,750 --> 00:15:11,440

deltas we'll meet you on page 5-3 of the

309

00:15:19,829 --> 00:15:17,829

thanks for those words cj it was a great

310

00:15:21,829 --> 00:15:19,839

mission we enjoyed it we enjoyed working

311

00:15:23,189 --> 00:15:21,839

with you and all the teams in mission

312

00:15:24,550 --> 00:15:23,199

control

313

00:15:26,790 --> 00:15:24,560

and we're glad that the international