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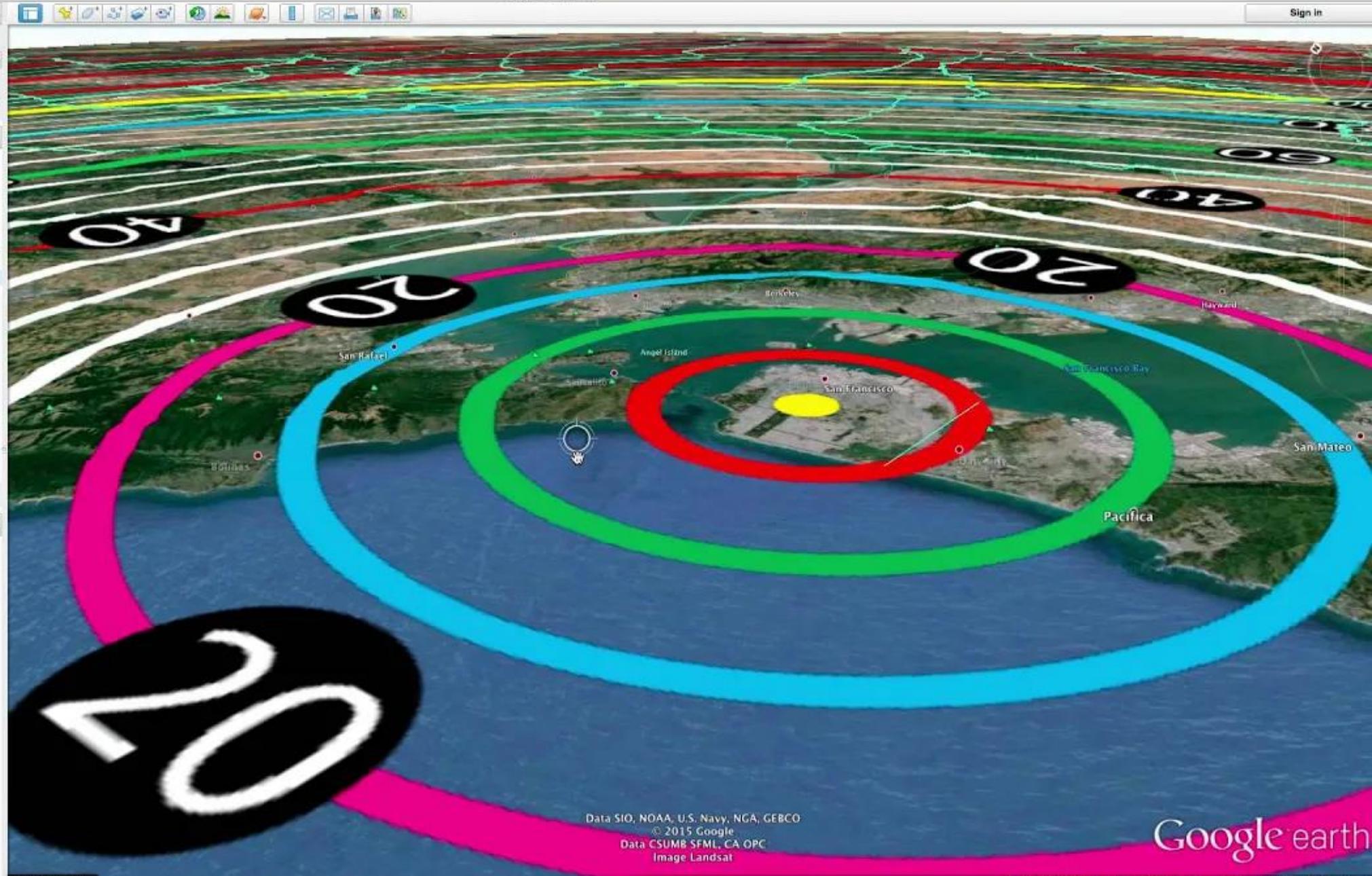
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Google earth

1
00:00:04,670 --> 00:00:02,300
hi my name is Mike west of Mehta bunker

2
00:00:06,619 --> 00:00:04,680
dog and control science comm and in this

3
00:00:09,650 --> 00:00:06,629
video I'm going to show you how I create

4
00:00:11,720 --> 00:00:09,660
the sky distance guide that I use for

5
00:00:14,720 --> 00:00:11,730
figuring out how far away contrails are

6
00:00:17,390 --> 00:00:14,730
in photographs this is Google Earth

7
00:00:19,790 --> 00:00:17,400
which is uh I'm sure you're all familiar

8
00:00:24,410 --> 00:00:19,800
with it's very useful piece of software

9
00:00:26,330 --> 00:00:24,420
the sky here is just plain blue and if

10
00:00:27,950 --> 00:00:26,340
you had say a plane somewhere in the sky

11
00:00:29,150 --> 00:00:27,960
how would you go about figuring out how

12
00:00:31,310 --> 00:00:29,160
far away it was

13
00:00:33,290 --> 00:00:31,320

well the way I do it is I put this

14

00:00:37,000 --> 00:00:33,300

distance guide up in the sky which is

15

00:00:40,459 --> 00:00:37,010

basically a series of concentric circles

16

00:00:43,670 --> 00:00:40,469

at five mile intervals and the entire

17

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

guy is placed in the sky at a certain

18

00:00:49,010 --> 00:00:45,600

altitude which matches the plane so if I

19

00:00:53,330 --> 00:00:49,020

know a plane's at say in this example

20

00:00:55,010 --> 00:00:53,340

it's 36,000 feet if a plane appeared

21

00:00:58,689 --> 00:00:55,020

here in an image I would know that it

22

00:01:04,850 --> 00:00:58,699

was 20 miles away from me let me just

23

00:01:06,050 --> 00:01:04,860

flip that if you'd have played here just

24

00:01:08,330 --> 00:01:06,060

above the top of the Golden Gate Bridge

25

00:01:09,859 --> 00:01:08,340

it would be 40 miles away and over here

26
00:01:12,740 --> 00:01:09,869
would be 60 miles 80 miles a hundred

27
00:01:14,660 --> 00:01:12,750
miles and if you had some plane that you

28
00:01:19,219 --> 00:01:14,670
could see way off in the distance this

29
00:01:22,820 --> 00:01:19,229
orange line here is 200 miles away and

30
00:01:27,590 --> 00:01:22,830
if I fly out of this view here you'll

31
00:01:32,060 --> 00:01:27,600
see what it actually looks like so here

32
00:01:34,999 --> 00:01:32,070
is a 200 mile radius circle with each

33
00:01:39,230 --> 00:01:35,009
individual ring being five miles further

34
00:01:42,020 --> 00:01:39,240
out and it is an altitude of about

35
00:01:45,260 --> 00:01:42,030
36,000 feet so how do we make this lets

36
00:01:46,910 --> 00:01:45,270
us go about creating it from scratch I'm

37
00:01:50,539 --> 00:01:46,920
going to delete this one that I have

38
00:01:52,370 --> 00:01:50,549

over here so what you'd need to do start

39

00:01:57,620 --> 00:01:52,380

off with is to go to the ruler tool and

40

00:02:00,590 --> 00:01:57,630

just create a line which is 200 miles

41

00:02:03,649 --> 00:02:00,600

long I just click on the way you want to

42

00:02:07,039 --> 00:02:03,659

start the line then bring it out 200

43

00:02:08,510 --> 00:02:07,049

miles it doesn't have to be exact 190

44

00:02:09,770 --> 00:02:08,520

something that you're 200 point two six

45

00:02:12,110 --> 00:02:09,780

miles

46

00:02:16,100 --> 00:02:12,120

and now I click on this like on here

47

00:02:18,320 --> 00:02:16,110

which is creating new image overlay and

48

00:02:21,260 --> 00:02:18,330

it's going to give us this and into the

49

00:02:28,100 --> 00:02:21,270

link I'm going to type in HTTP go on

50

00:02:31,880 --> 00:02:28,110

slush slush better bunk org slash rings

51
00:02:33,620 --> 00:02:31,890
dot PNG now if you don't like linking to

52
00:02:36,080 --> 00:02:33,630
meta bumble org you can just download

53
00:02:38,180 --> 00:02:36,090
this image to your computer and then you

54
00:02:40,400 --> 00:02:38,190
can link directly to the version that's

55
00:02:42,610 --> 00:02:40,410
on your computer it's just a PNG file

56
00:02:47,390 --> 00:02:42,620
it's just an image file with some

57
00:02:51,020 --> 00:02:47,400
transparency so if I press the tab

58
00:02:53,120 --> 00:02:51,030
button here just to get its load it it

59
00:02:57,710 --> 00:02:53,130
takes a few seconds and then there it is

60
00:03:00,920 --> 00:02:57,720
it's loaded it off my my web server I'm

61
00:03:04,280 --> 00:03:00,930
going to move it now so these middle of

62
00:03:07,610 --> 00:03:04,290
the the ring is at the start of the line

63
00:03:10,309 --> 00:03:07,620

that we created earlier and then I'm

64

00:03:12,830 --> 00:03:10,319

going to go out to the edge here I'm

65

00:03:16,250 --> 00:03:12,840

gonna hold down the shift key

66

00:03:20,600 --> 00:03:16,260

grab this edge and move it in so the end

67

00:03:23,330 --> 00:03:20,610

of the line is in the middle of this

68

00:03:28,670 --> 00:03:23,340

orange ring here which indicates the

69

00:03:33,770 --> 00:03:28,680

200-mile point and I click OK and get

70

00:03:38,270 --> 00:03:33,780

rid of this so now now we've got the the

71

00:03:40,819 --> 00:03:38,280

the overlay correctly sized if I go to

72

00:03:43,310 --> 00:03:40,829

the ruler tool again and go from the

73

00:03:45,740 --> 00:03:43,320

centre of the yellow dot in the middle

74

00:03:52,640 --> 00:03:45,750

to the middle of this red you'll see

75

00:03:54,680 --> 00:03:52,650

it's five files now this currently is on

76

00:03:56,780 --> 00:03:54,690

the ground if I shift it around you'll

77

00:03:59,630 --> 00:03:56,790

see it's actually conforming to the

78

00:04:02,090 --> 00:03:59,640

ground going up over those hills over

79

00:04:04,190 --> 00:04:02,100

there which isn't very useful for us

80

00:04:07,789 --> 00:04:04,200

because we want to see what the distance

81

00:04:09,860 --> 00:04:07,799

would be up in the sky so what we do is

82

00:04:12,770 --> 00:04:09,870

we go over to the imager below we've

83

00:04:14,930 --> 00:04:12,780

created click on get info which lets you

84

00:04:21,920 --> 00:04:14,940

edit it again and I'm just going to

85

00:04:23,800 --> 00:04:21,930

rename it sky doesn't guide and I'm

86

00:04:25,940 --> 00:04:23,810

going to click here on altitude and

87

00:04:28,490 --> 00:04:25,950

change it from clamp to ground to

88

00:04:32,240 --> 00:04:28,500

absolute which is going to be absolute

89

00:04:35,719 --> 00:04:32,250

relative to the sea level and I'm going

90

00:04:39,529 --> 00:04:35,729

to put in ten thousand meters you have

91

00:04:44,540 --> 00:04:39,539

to use meters for some reason press tab

92

00:04:46,190 --> 00:04:44,550

again and it will pop up the the image

93

00:04:49,310 --> 00:04:46,200

overlay to ten thousand meters which is

94

00:04:53,180 --> 00:04:49,320

about 33,000 feet click okay so now

95

00:04:56,750 --> 00:04:53,190

we've got our guide up in the sky so if

96

00:04:58,850 --> 00:04:56,760

we go down to ground level underneath

97

00:05:05,420 --> 00:04:58,860

this image overlay let's see we're down

98

00:05:14,980 --> 00:05:05,430

here somewhere go down into this park

99

00:05:18,890 --> 00:05:17,270

it's going to Street for you here but

100

00:05:21,860 --> 00:05:18,900

what we can do is click on this icon

101
00:05:24,290 --> 00:05:21,870
here to switch to ground level view and

102
00:05:27,290 --> 00:05:24,300
this will just give us the 3d building

103
00:05:30,770 --> 00:05:27,300
version of the view and you can see here

104
00:05:34,190 --> 00:05:30,780
we can see the image overlay above if we

105
00:05:35,360 --> 00:05:34,200
look straight up you'll see the dot

106
00:05:37,250 --> 00:05:35,370
directly above us

107
00:05:39,320 --> 00:05:37,260
this ring represents things that are

108
00:05:39,530 --> 00:05:39,330
five miles away when there are at 30,000

109
00:05:44,570 --> 00:05:39,540
feet

110
00:05:51,140 --> 00:05:44,580
this represents 15 at 10:15 and then 20

111
00:05:55,220 --> 00:05:51,150
miles and then they go 25 30 35 40 and

112
00:05:56,990 --> 00:05:55,230
60 80 a hundred and all the way out here

113
00:05:58,880 --> 00:05:57,000

and if you can see way off in the

114

00:06:02,210 --> 00:05:58,890

distance over here the orange line

115

00:06:05,990 --> 00:06:02,220

represents a plane that would be 200

116

00:06:08,720 --> 00:06:06,000

miles away so if you had a photograph

117

00:06:11,330 --> 00:06:08,730

taken from this particular viewpoint you

118

00:06:14,180 --> 00:06:11,340

could match up what you see from this

119

00:06:15,680 --> 00:06:14,190

viewpoint with these lines in the sky

120

00:06:18,470 --> 00:06:15,690

and if you know the altitude of the

121

00:06:20,300 --> 00:06:18,480

plane I use 33,000 Peter so general

122

00:06:22,190 --> 00:06:20,310

average for most planes that'll leave

123

00:06:24,890 --> 00:06:22,200

your contrails then you can tell how far

124

00:06:27,020 --> 00:06:24,900

away things are and it's quite easy to

125

00:06:29,840 --> 00:06:27,030

see that most contrails are going to be

126
00:06:31,760 --> 00:06:29,850
at least at least 10 miles away from you

127
00:06:35,120 --> 00:06:31,770
this this red line is 5 the Green Line

128
00:06:37,370 --> 00:06:35,130
is 10 miles away but the majority of

129
00:06:40,070 --> 00:06:37,380
contrails you see I kind of like in this

130
00:06:46,340 --> 00:06:40,080
this angle here so they're around in the

131
00:06:47,630 --> 00:06:46,350
10 to 22 to 40 60 80 miles away she's

132
00:06:49,310 --> 00:06:47,640
kind of surprising because lots people

133
00:06:51,920 --> 00:06:49,320
think of the controls as being overhead

134
00:06:53,780 --> 00:06:51,930
and when overhead is really very very

135
00:06:55,870 --> 00:06:53,790
straight up you have to be looking like

136
00:06:58,940 --> 00:06:55,880
with your head tilted all the way back

137
00:07:01,460 --> 00:06:58,950
and that's actually quite a smaller area

138
00:07:03,020 --> 00:07:01,470

when you think about it most of the area

139

00:07:05,150 --> 00:07:03,030

of the sky that you can see is a longer

140

00:07:10,010 --> 00:07:05,160

distance away in another video I'm going

141

00:07:12,680 --> 00:07:10,020

to show how to how to fit photographs to