To wrap up the discussion on alternate display options we will do an exercise.   If you recall when we started the simulation for the CAPTEX ground-level air concentrations, we showed you an animation of the plume every three hours, superimposed on top of the three-day average measurement at each one of the sampling locations.

For the exercise we would like you to reproduce this graphic, but instead the measurement data should change with each sampling period.   Now the hint to do this is that, of course, you can load the original configuration that you had saved when we did that simulation, and you should consider that most of the sampling data, if we look at the measure data in this file here, were of six hour duration. Most of the samples that were of three hour duration were the close in samples.

So if we were to go ahead and reconfigure the model run, you should reconfigure in such a way to optimize the display using just the six hour samples, which started at 2100 rather than 1800.   So at this point I'm going to, or you should pause, and then we will go back and when you're finished, start up the video to see what the solution is.

The first step in the solution would be to rerun the simulation with the proper configuration.   So I'm going to do a reset, just because we've been doing so many different things, and then we're going to go into the setup menu and retrieve, and this is in the files, and we should

have it in the working directory here, captex_control.txt and also in the name list, captex_setup.txt. Now in the hint it was mentioned that the samples are really of six hour duration, most of them are, and they started at 2100, so go to the grids menu and let's lineup the model output to start at 2100, and to have a duration of six hours. And that's really all that is necessary to run the simulation.

And while that's running we can actually save a little time and configure the display menu. And everything here should be fine, we need the conversion factor to pico-grams, and we are going to use the user set contours this time, and let's keep them a little less colorful, we will have fewer of them this time, so let's say 3000, 1000, 300, 100, remember for the aircraft sampling, which was closer in, the concentrations were much higher. And the other thing is we should include the measured data file. Let's do that and it was in the tutorial directory, it's this file. And I believe that is all the change required and the model is almost complete. It is now complete so we can exit, and let's execute display.

Let's make sure that this is, looks about right, and you can see the measured data changing, and the only thing left to do is convert this to an animation, utilities, Postscript to Image, and we're going to animate and crop, and will increase the resolution, execute. And in the working directory, we will have the GIF file. You can see how the model calculation is pretty good but it doesn't quite capture all the samples, especially the ones in Canada.

And that concludes the exercise.