

Chyron®

Weather:

Drawing Fronts

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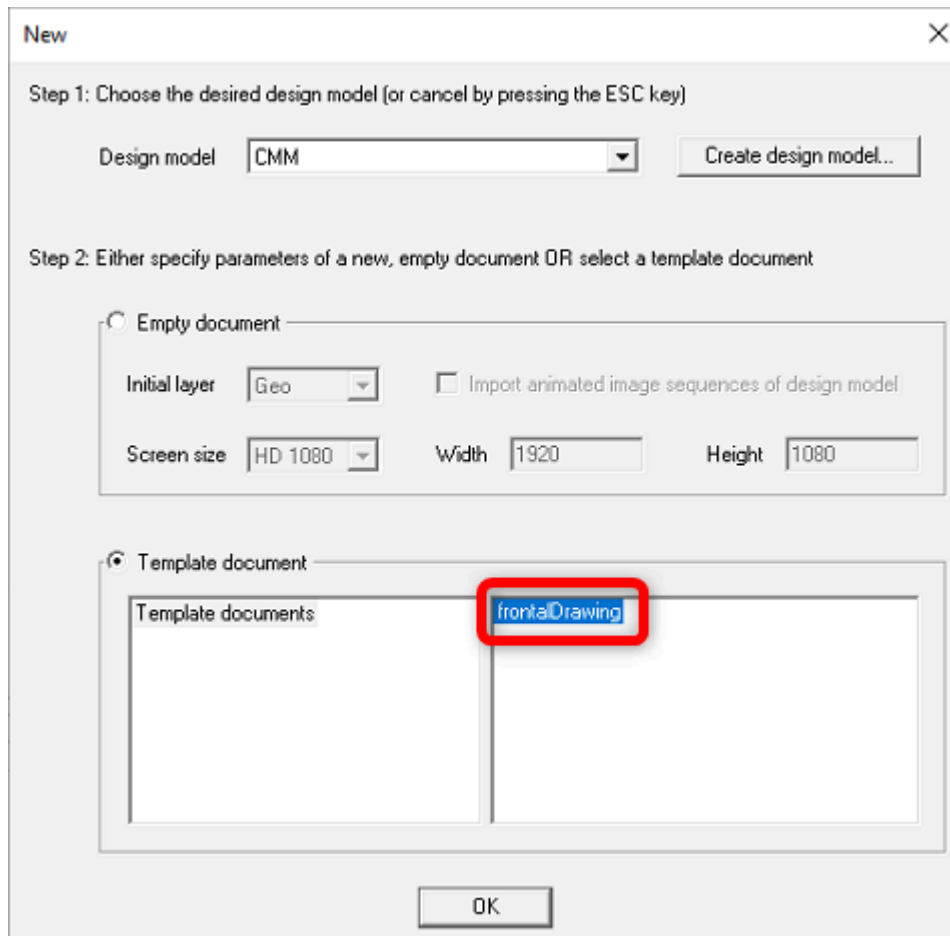
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1 Opening the document

Run Weather Designer on your Chyron Weather computer.

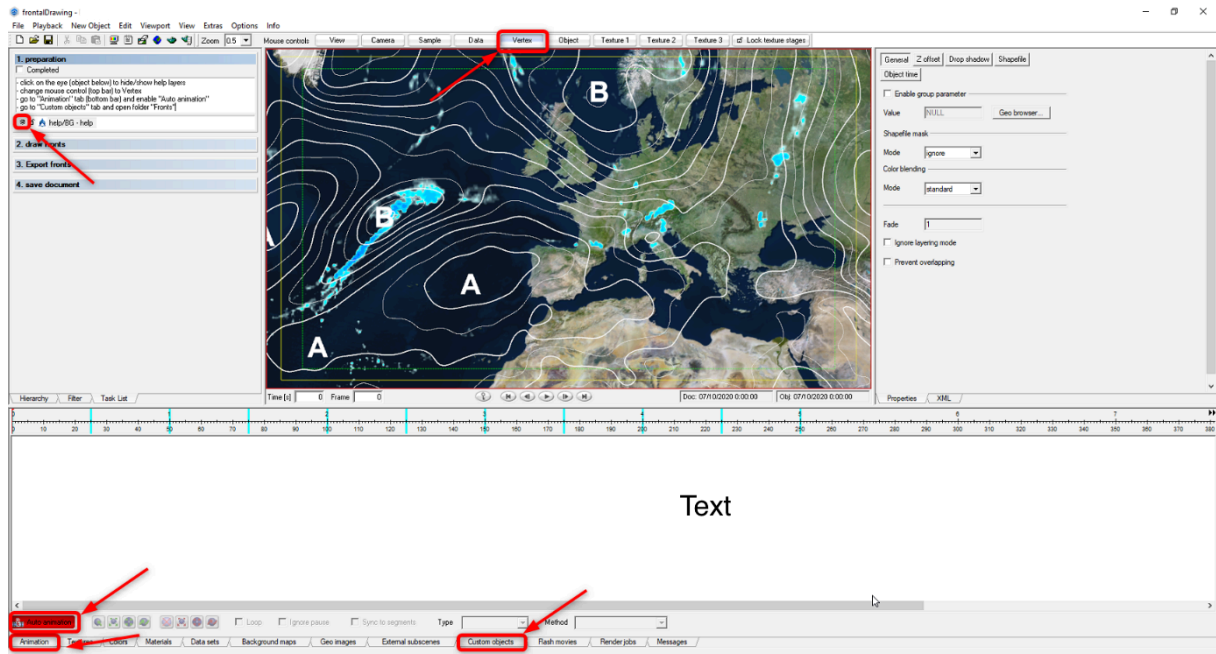
When the opening dialogue appears, select the document “frontalDrawing.dvz” from the Templates.

Press ok or double click the template document.



2 Preparation

After opening, prepare your document for drawing the fronts.



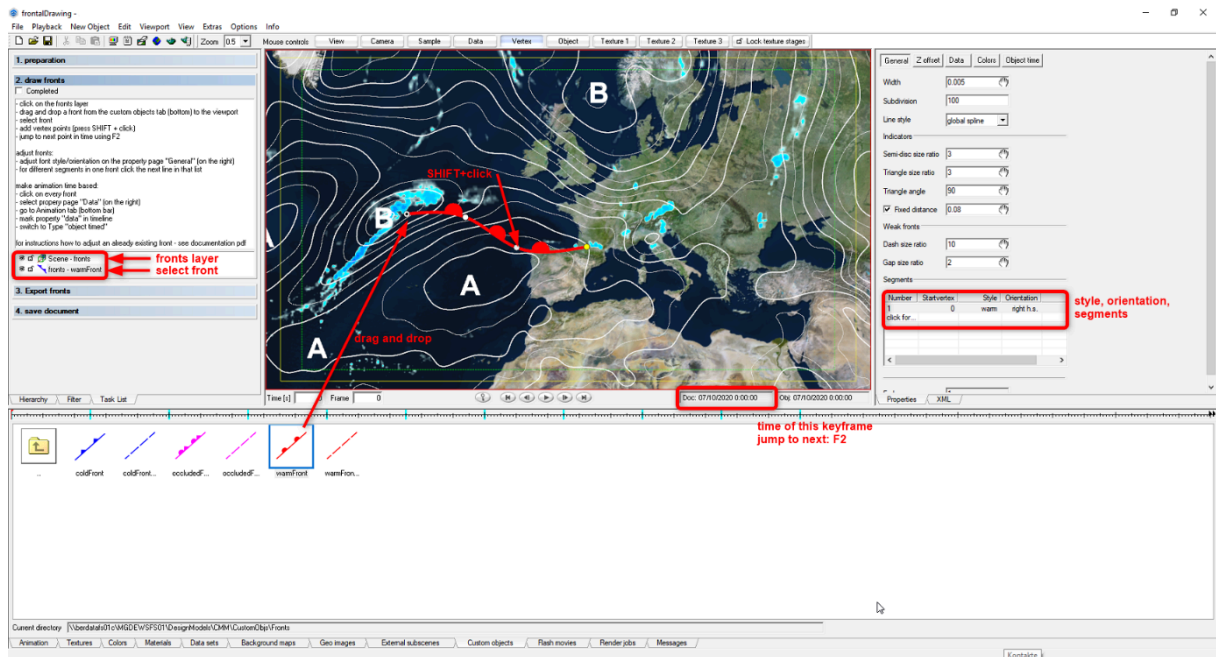
The mouse control needs to be set to “Vertex” – you can find that top bar directly above the viewport.

Go to the Animation tab in the bottom menu and click on “Auto animation”. If selected that will be highlighted in red. Having that enabled, Weather Designer will automatically create keyframes when you add/change fronts.

After that, select the Custom objects tab from the bottom menu and navigate into the folder “Fronts”.

You can hide or show helping layers – pressure lines with Highs and Lows as well as precipitation. Use the eye next to the object in the task.

3 Drawing fronts



Add fronts

Select the fronts layer (object in the tasks).

Now drag and drop a front from the bottom to the viewport. It will appear as little circle with a point in the center. The Front will appear in the object list in the task.

Click either on the object in the list or on the circle in the viewport. Add more vertex points using SHIFT+click. You can adjust the position of single vertex points with the mouse (drag and drop) or move the whole front by dragging and dropping the front (not a single vertex).

Animate fronts

To animate the front, use F2 to jump to the next timestep (there is a fixed timestep every 12h). The document time shows which timestep you are looking at.

In the viewport you will see green lines. These show the translation paths of the vertex points.

The document is prepared to draw fronts for 5 days. This is not mandatory. You can also skip single timesteps and move the front only every 24h – the animation in between will be interpolated.

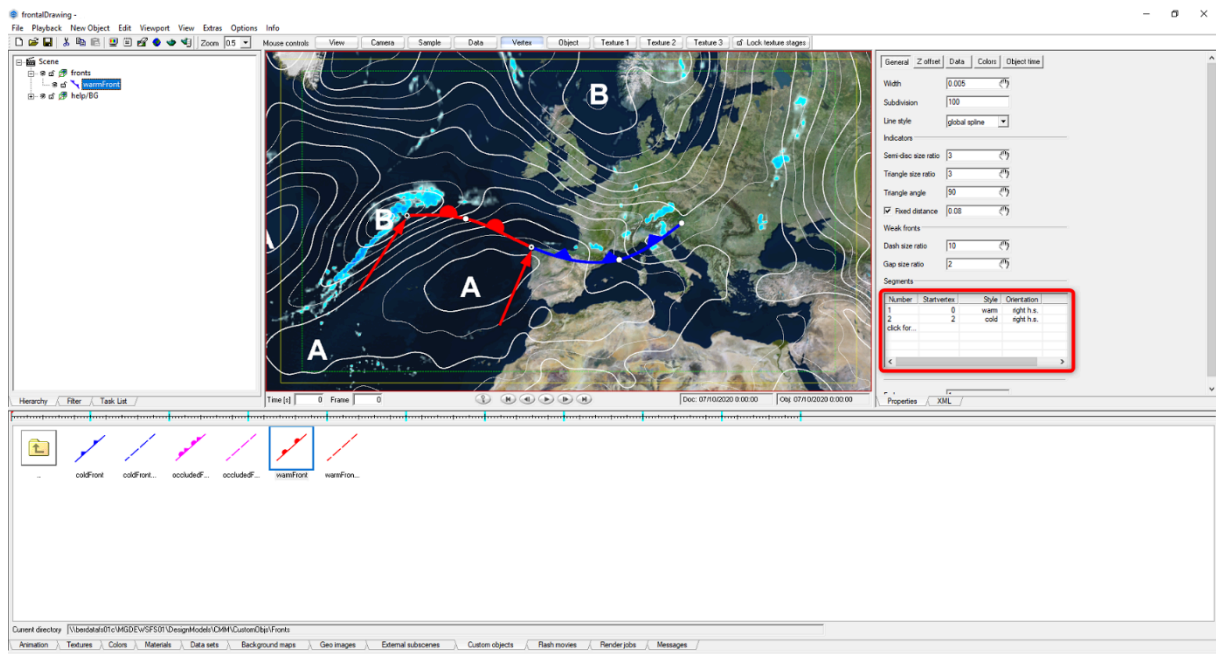
When you reached the end of the document F2 will also bring you to the start again.

Adjusting fronts

On the property page “General” (on the right-hand side) you can adjust the style and orientation of each front. You can choose between cold, warm, and mixed (occluded front) and also draw weak fronts.

The orientation defines, on which side of the front the indicators will be shown.

If necessary, you can split one front into several segments:

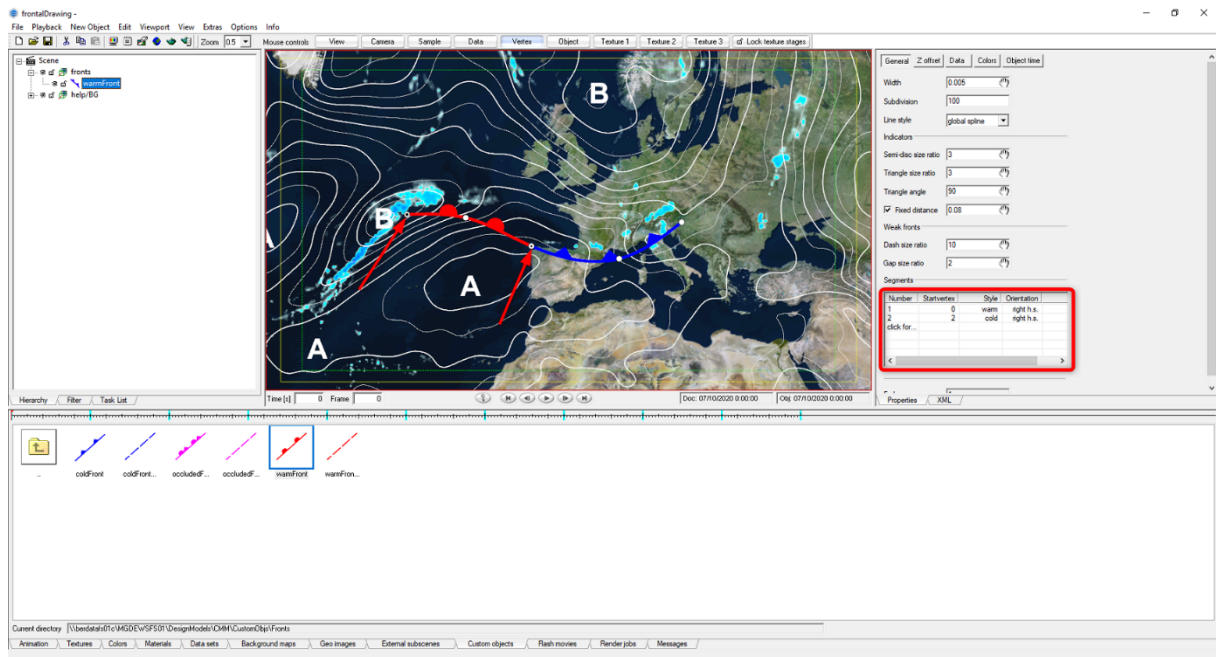


Click the next free line in the segments table and the front will be split. Define, where that new segment should start with the Startvertex (visible with the circle with point). Set style and orientation separately for each of the segments.

4 Time based animation

Make animation time based

When happy with the animation, the keyframes need to be linked to the time.



Do the following steps for every front that you have drawn:

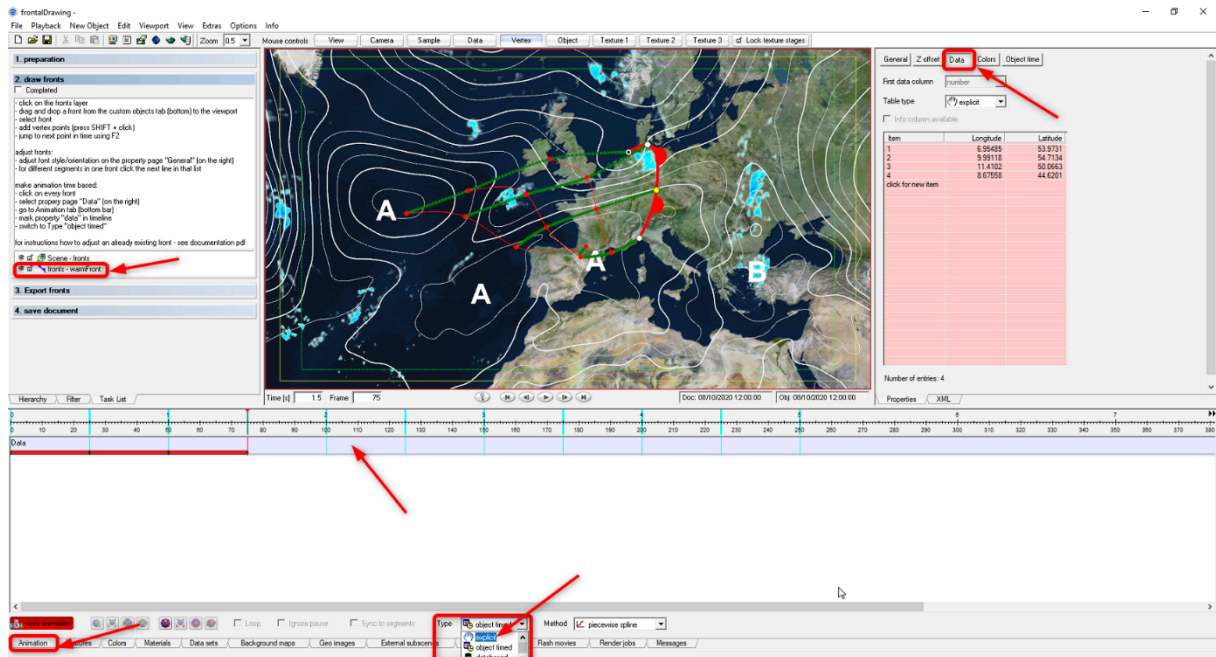
- Click on the front (in the objects list of the tasks).
- Select the property page "Data" (on the right-hand side).
- Select the Animation tab from the bottom menu.
- Select the property (where you see the keyframes – just click somewhere in that area)
- Switch the type to be "object timed"

The keyframes are now linked to the specific timestep.

After switching to object timed you will not be able to change the position or animation of fronts.

Edit time based fronts

In case you want to adjust front that are already object timed, click on the front you want to adjust.



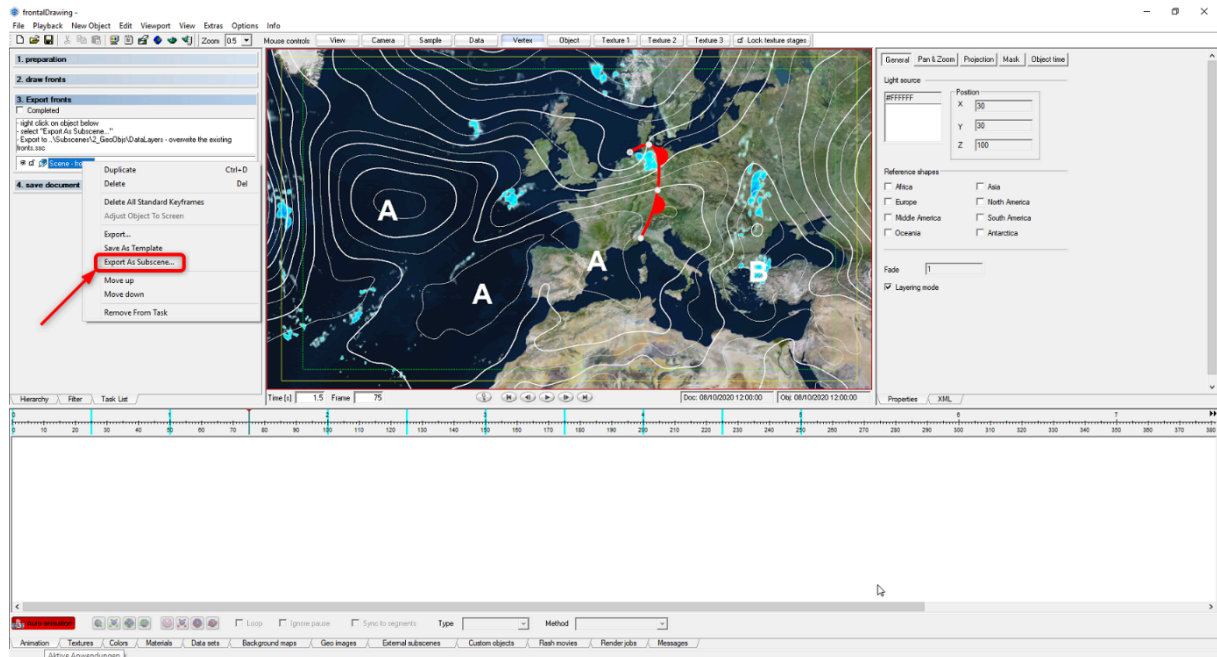
- Click on the property page “Data” (right-hand side)
- Select the Animation tab in the bottom menu
- Click on the property (with the keyframes)
- Select the type “explicit”

The position of the front is editable again and not bound to the timestep any longer.

5 Export and save

Export fronts

In order to make the fronts available in Weather Presenter, they need to be saved as subscene.



Right click on the object in the task.

Select "Save as Subscene..." and save the subscene to 2_GeoObjs\DataLayers.

Overwrite the existing fronts.ssc

Save document

You can save the document. Go to File > Save as... and navigate to TemplateDocs\.

Overwrite the existing frontalDrawing.dvz or save with a date in the filename. Be aware that there is no housekeeping in place.

6 Reusing documents

You can reuse the fronts that you have drawn the day before.

Before you start editing, you should delete fronts that are no longer needed. For all the other fronts you need to switch the keyframes to explicit. See [Lesson 4](#) how to do it.

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