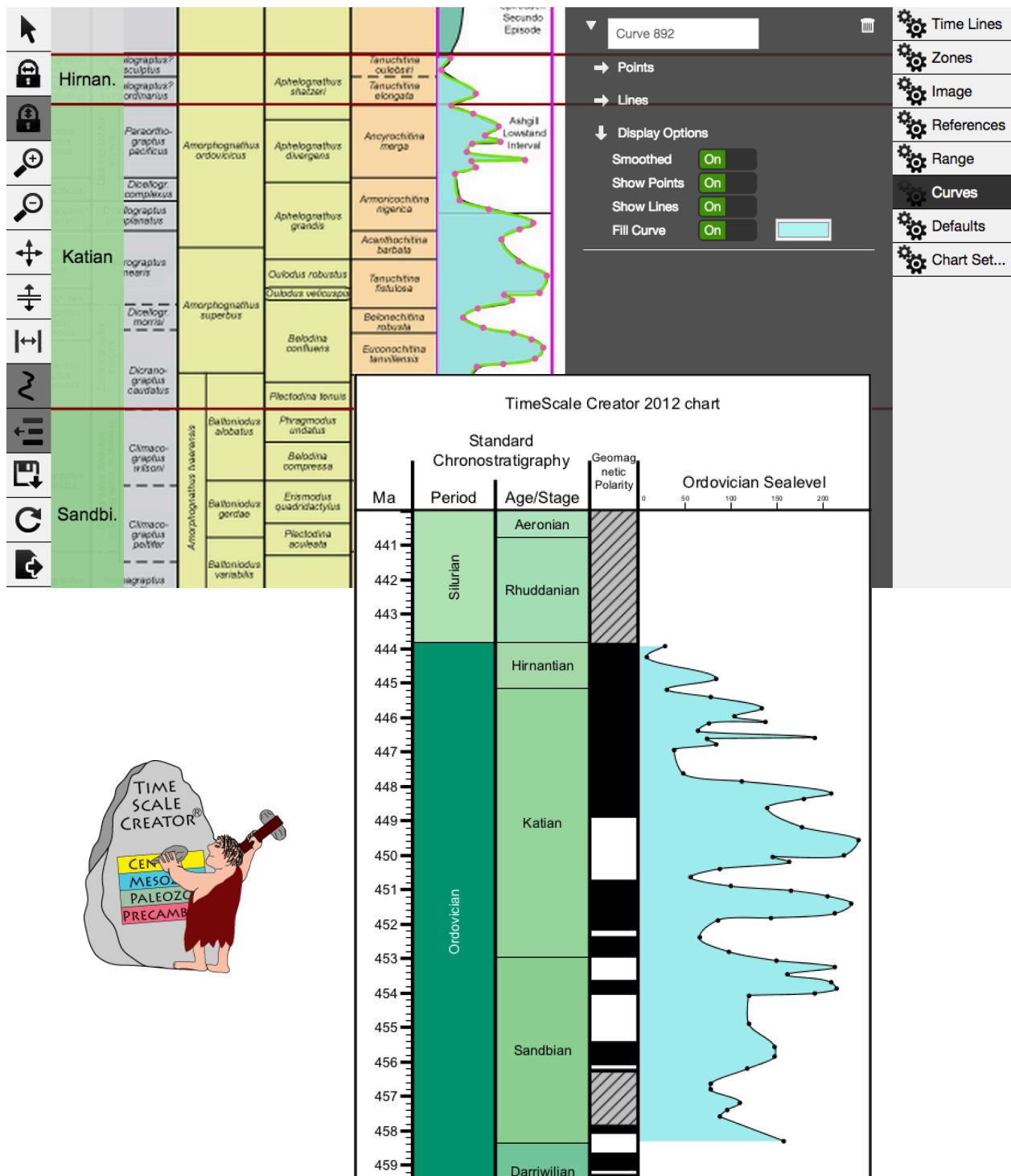


# Curve Maker for TimeScale Creator

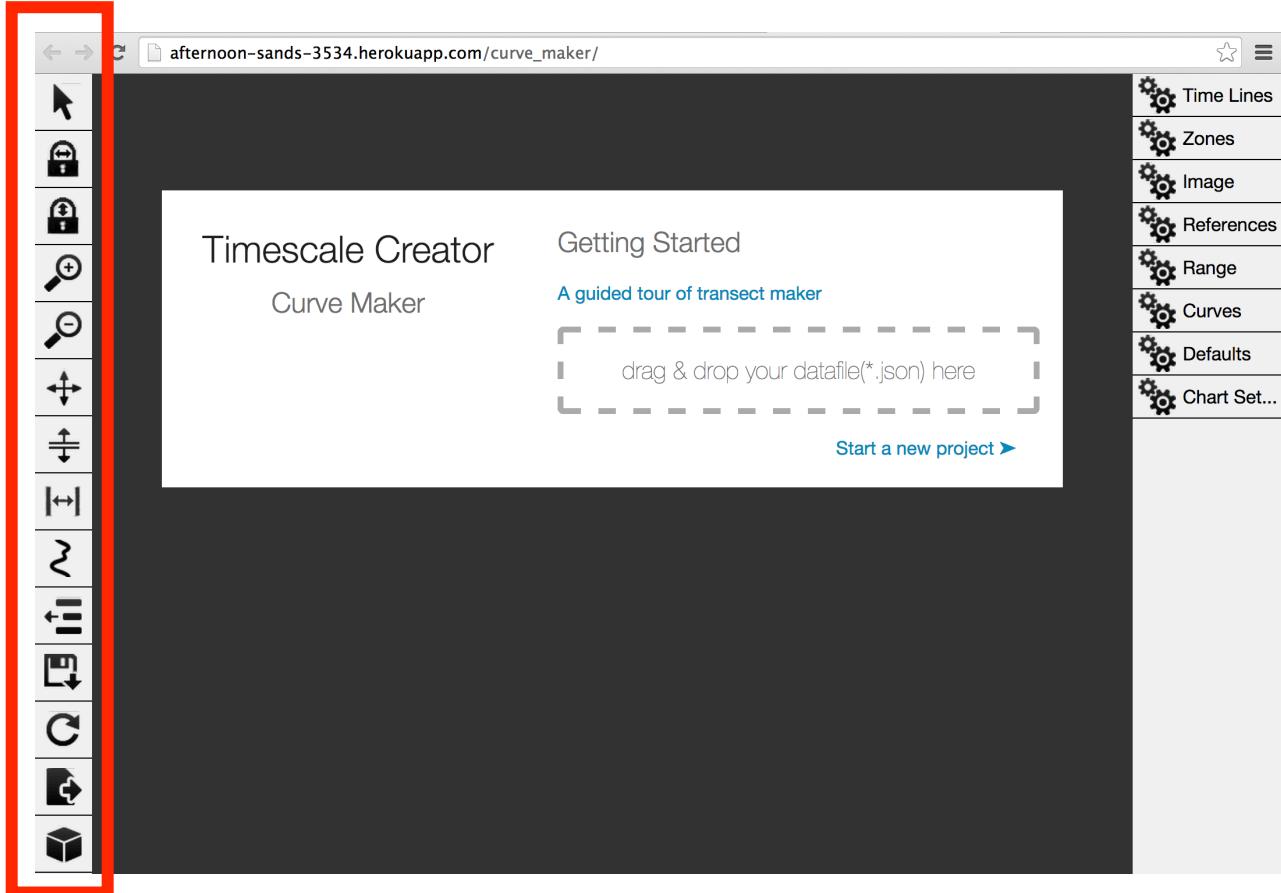
Keehwan Park

September 2014



## Curve Maker Overview

Tools (left side of opening window)



**Pointer Tool** - Doesn't really do anything. Clicking the pointer tool will unselect any of the other tools that are active.



**No Function at the moment**



**No Function at the moment**



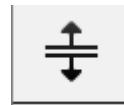
**Zoom in** - Click on the magnifying glass as often as you need to zoom in.



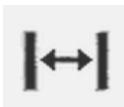
**Zoom out** - Click on the magnifying glass as often as you need to zoom out.



**Panning** - Click the panning option to move your image up or down or left and right. To leave the panning option, click it again or click the pointer tool.



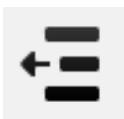
**Add Timeline** - Select and then **double-click** on the canvas to add a timeline.



**Range Tool** - Select and **double-click** where you want your left and right border of your curve.



**Curve Tool** - Select and **double-click** on the first point on your curve. Continue double-clicking new points until your curve is finished. Deselect the curve tool to end the curve.



**Reference Column** -Select this icon to see the reference column displayed. Click the icon again and the column disappears. Works only if you used the Reference Time Scale for your timelines.



**Saving a json** - Click and a json file is saved to your computer. You can reload the file via the drag and drop box on the opening screen.



**No Function at the moment**

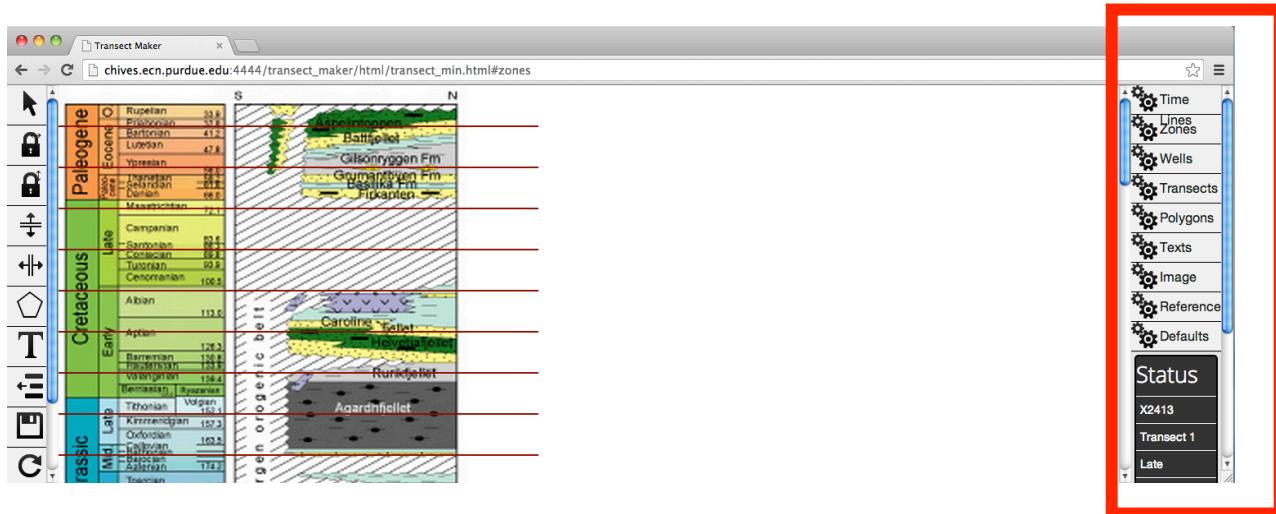


**Export** - Select and you will get a view containing the tab-separated Timescale Creator format. You can choose to view the **table** or **text** view. The **Export Tab** will download a "txt" file called "test\_output.txt" to your computer.



**No Function at the moment**

# Input Column (right side of opening window)



**Time Lines**  
Add ages and label timelines. Hit return after the entries to record your changes.

**Zones**  
Add zone descriptions

**Image**  
Drag and drop your image. Adjust size.

**Reference**  
Choose reference time frame and what columns to use (periods, epochs, stages).

**Range**  
Set left and right range limit of your curve

**Curves**  
Choose options for curves

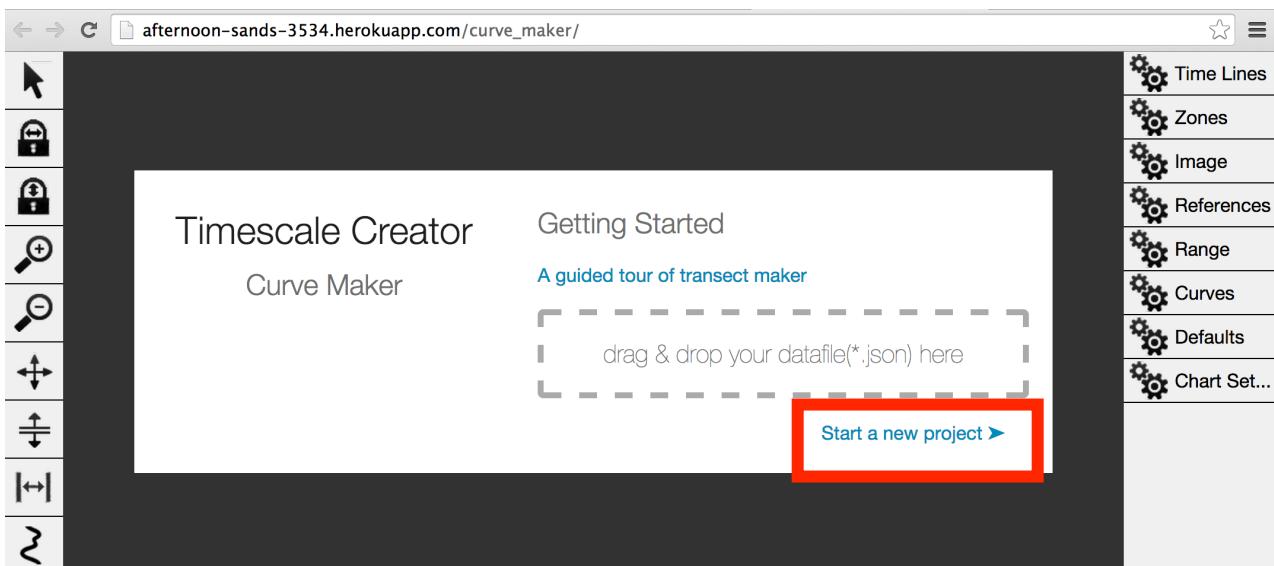
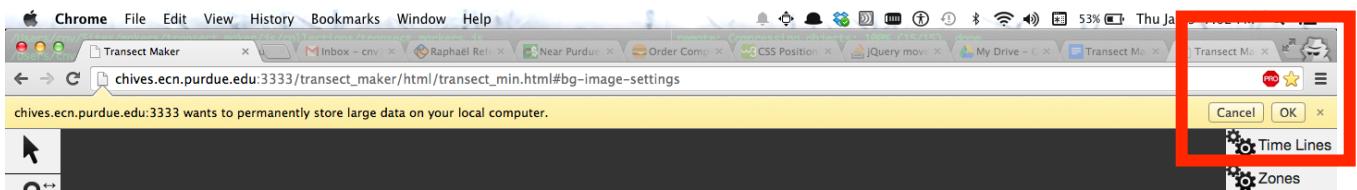
**Defaults**  
This is tab has no function yet.

**Chart Set...**  
This is tab has no function yet.

# Getting Started... A Step by Step Guide

## Browser Requirements : Google Chrome

**Step 1** - On opening the URL the app will ask for your permission to create a space (sandbox) on your system. By accepting it, you will have the ability to store projects in this sandbox and load them when required.



**Step 2** - To start a new project just click "start new project" and an empty page will appear.

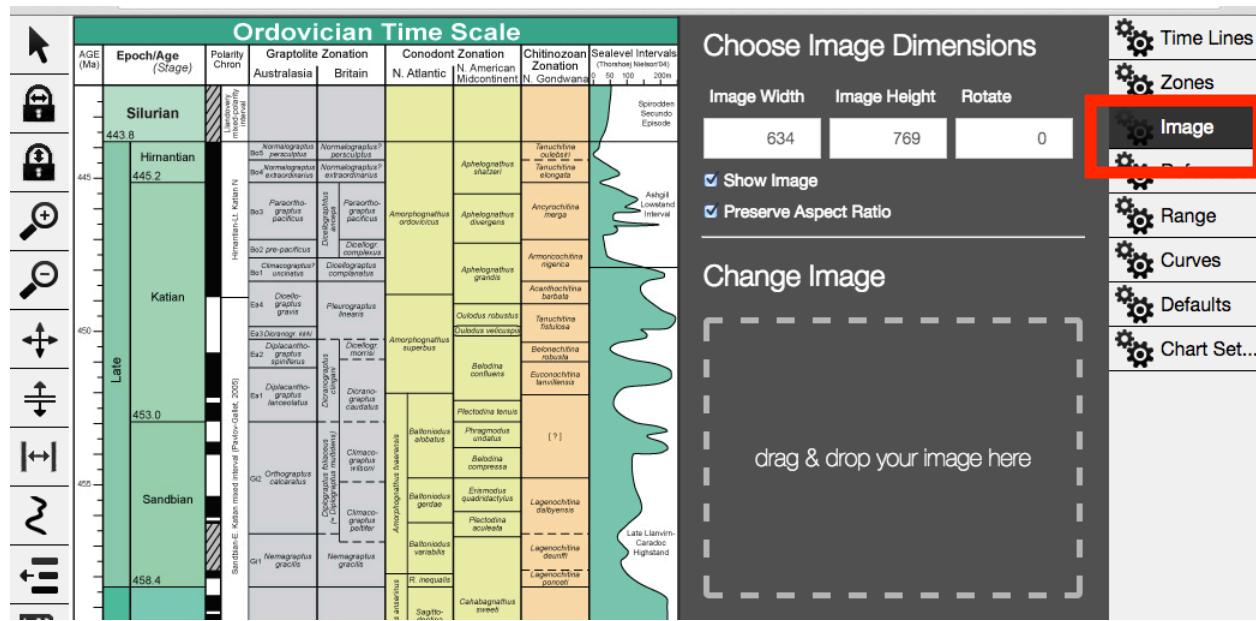
**Hint:** If you have already a **json** file from a previous project you can just drag it into the "drag and drop" box. It will automatically load.

If you have a saved project in your sandbox, then just click the sandbox icon and load the **json** file from there.

## Start new project

Click “start new project” on the intro view. This will take you to an empty page.

Add an image by selecting the **Image Tab** on the right hand setting panel and then drag and drop an image. Image can be of any format (**png/gif/jpeg**) except pdf. You can resize the image or rotate it according to your needs.



## Resize your image before you put in timelines and range lines.

Later resizing does not keep the timelines and range lines in the same place.



To move your image use the panning tool . Click on the panning tool, a crosshair appears and you can move your image around.



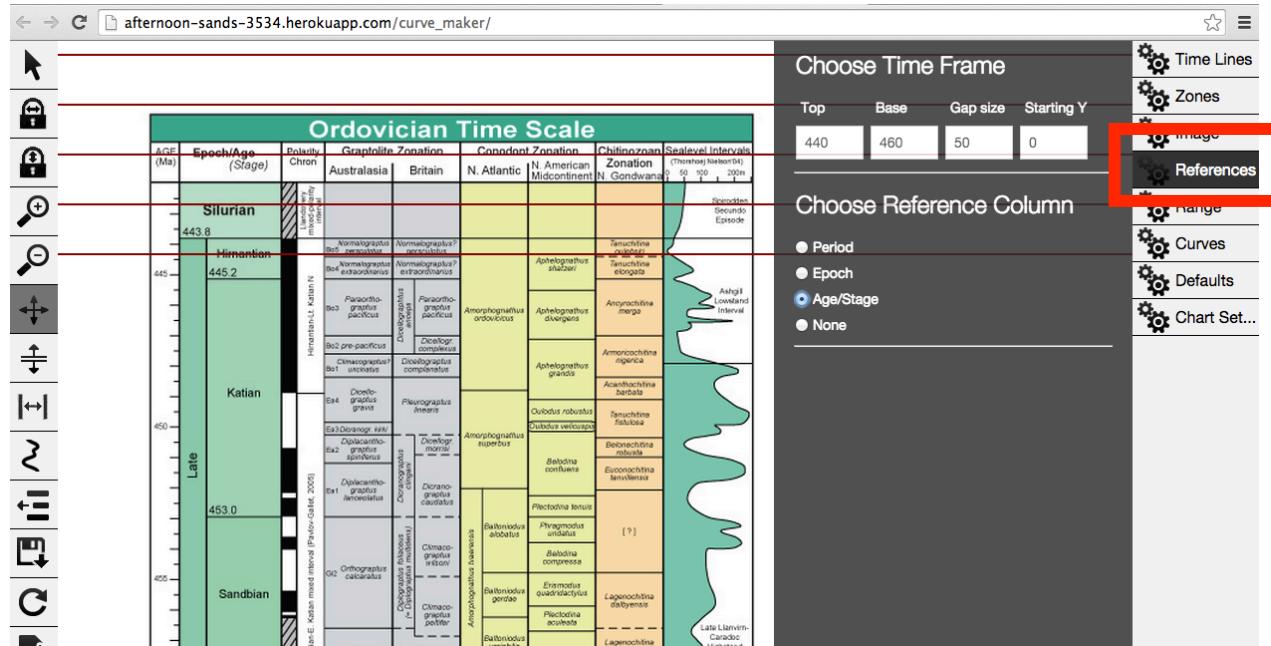
To exit the panning mode click on the panning tool again or the pointer tool .

## Adding or Editing information to curve maker elements (Timelines / Zones / Range lines / Curves /)

Before starting to draw a curve you have to create **timelines** and **range lines**. Each of the properties of the curve elements can be edited in the settings list on the right hand side. Start editing the field by clicking on the corresponding name. In order to close the input fields after the information is updated - press enter or esc key. This will update the info to the appropriate element. To close the Tab completely just click it again.

## Add Timelines from the reference Time Scale (GTS2012):

Open **Reference** Tab on right hand side. This gives you a window where you can choose your time frame and what columns to use (periods, epochs, stages).



Choose your top and base age, then choose your reference column and the timelines will appear evenly spaced at the top of the screen.

Select the timeline tool on the left side and drag them to the appropriate location. When you have lots of timelines, they will be off the screen. Use the **panning** tool to move down or up and you will find them.

*If you want to change your top or base age, you must click none for reference column before clicking the reference column, which you want to generate new timelines. (This will be fixed in the future).*

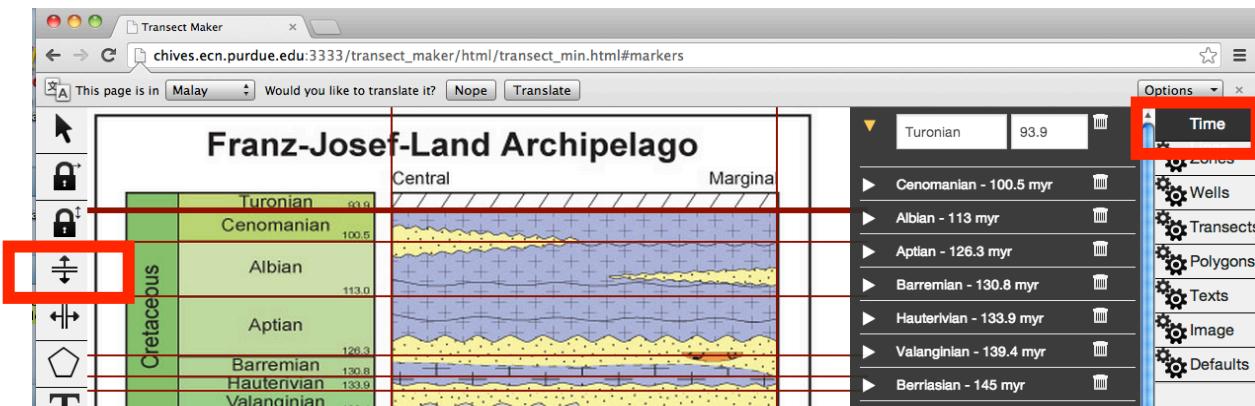
**Hint:** For large images zoom out to make it easier to position the time lines.

If you select your timelines from the Reference Time Scale, then the Zone descriptions are already filled in. However, you can still edit or delete them under the **Zones** tab.

## Add Timelines:

Open **Time** Tab on right hand side, here you can add information for your timelines.

If you selected your timelines from the Reference Time Scale, then the appropriate names and ages for your timelines are already displayed. You can now add or delete other timelines or change the ages.



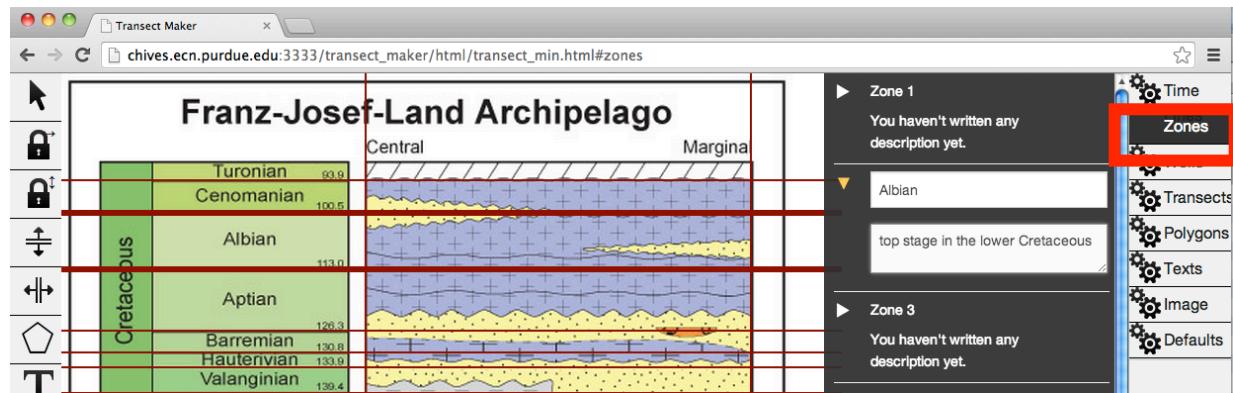
To add new timelines click **timeline** button on left tool bar and double-click the base of a zone or stage on your image, which you want to use as a timeline. On the right side panel a new timeline is added, you can change the name and add the age in myr. Hit **enter** after each entry. Continue until all your timelines are done.

## Add Zones:

Open **Zones** Tab on right hand side, here you can add information for your zones, which is the interval between two of your timelines. If you hover the cursor over the zone, the corresponding two timelines will appear bold. Type in zone name and description.

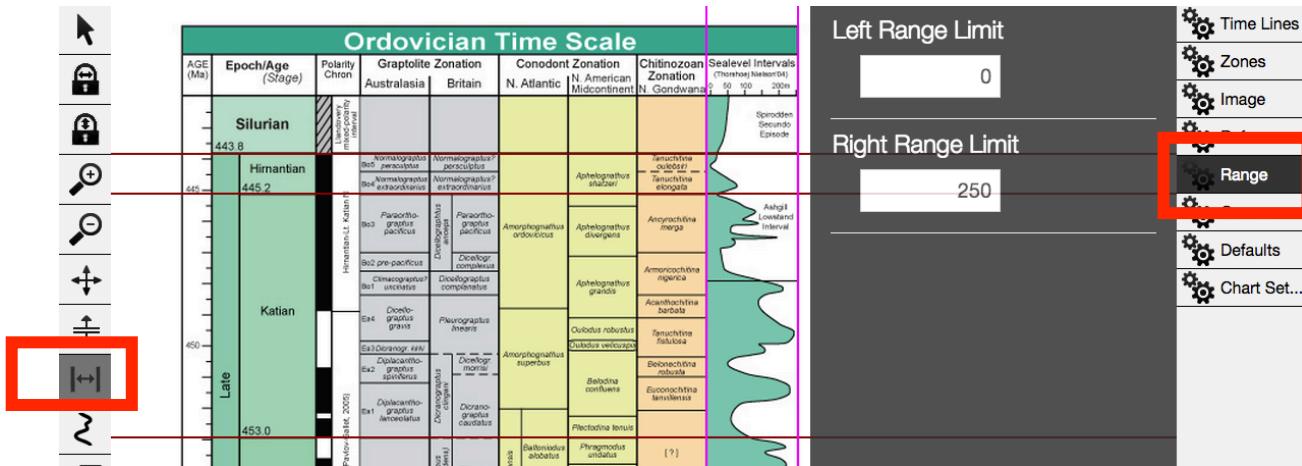
If you selected your timelines from the Reference Time Scale, then the Zone descriptions are already filled in. However, you can still edit or delete them.

To edit existing zone information, just click on the white arrow and it will open the text box.



## Add Range Lines:

Open **Range** Tab on right hand side,. Once you have placed your range lines you can decide on a scale.



Next click **range** button  and double-click where you want your right and left borders.

**Save** your project to your “download folder” on your computer. Click  to download a json file.

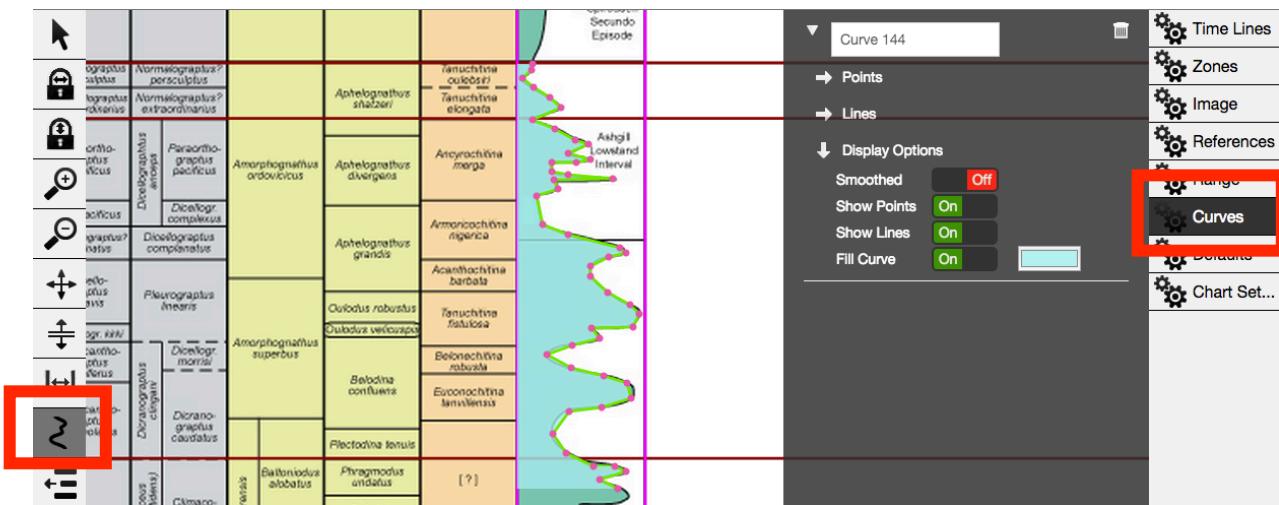
Depending on your settings in Google Chrome the download will be automatic or you have the possibility to choose a file name.

Reload this json file via the opening screen by dragging it into the drop box.

# How to draw a Curve:

Open **Curve** Tab on right hand side and click on curve tool  on the left side.

Start your curve by double-clicking points on a curve. Once your curve is done, click on the curve tool again or double-click a second time on your last point. Your points will now appear in black. You can label your curve and choose some options in the curve panel, just click on the "on" and "off" buttons.



You can re-activate your curve to continue drawing or adjusting points by selecting the curve tool again and double-clicking any of the points.

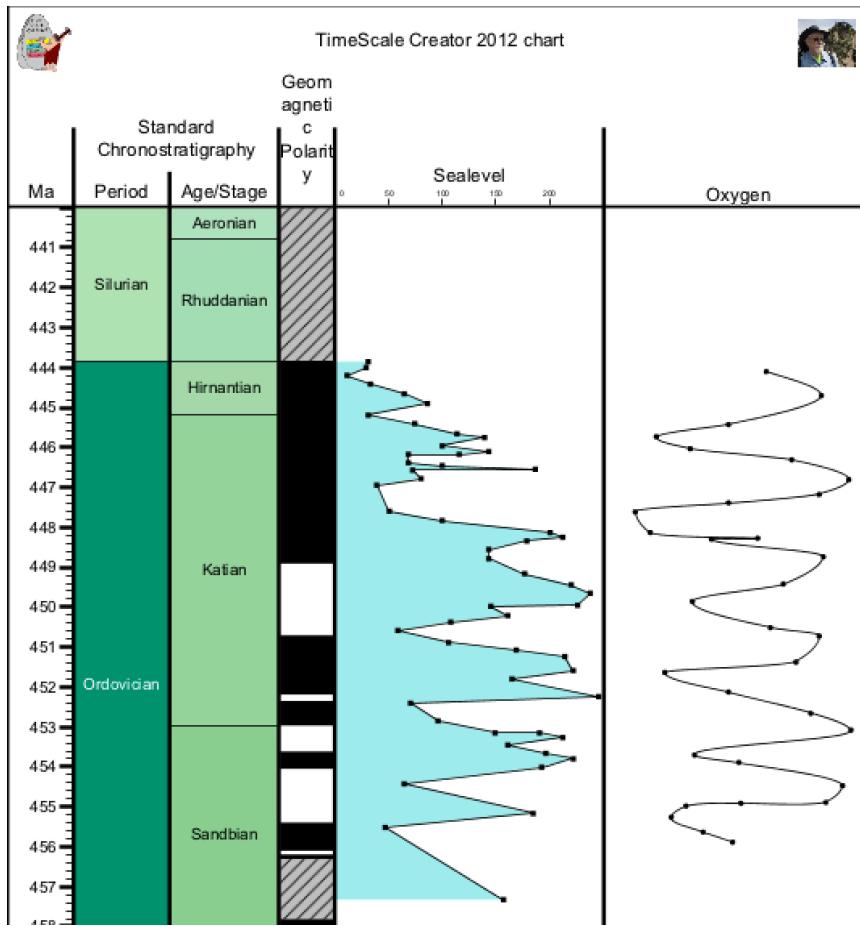
All points can be adjusted, by selecting and dragging them with your mouse. However, the vertical movement is constraint by the adjacent points.

## Adding a second curve:

You can add a second curve by just repeating the same process, however, the first curve needs to have **no fill color**. Once you have drawn your second curve you can fill the first curve again.



Both curves will be displayed in separate columns once they are loaded into the TSCreator Program.



# Saving Data

## Saving a json file:

Save your finished project to your “download folder” on your computer. Click  to download a json file.

Depending on your settings in Google Chrome the download will be automatic or you have the possibility to choose a file name.

Reload this json file via the opening screen by dragging it into the drop box.

**Hint:** Don't forget to save a json file. Only the json file can be reloaded and edited in the Curve Maker.

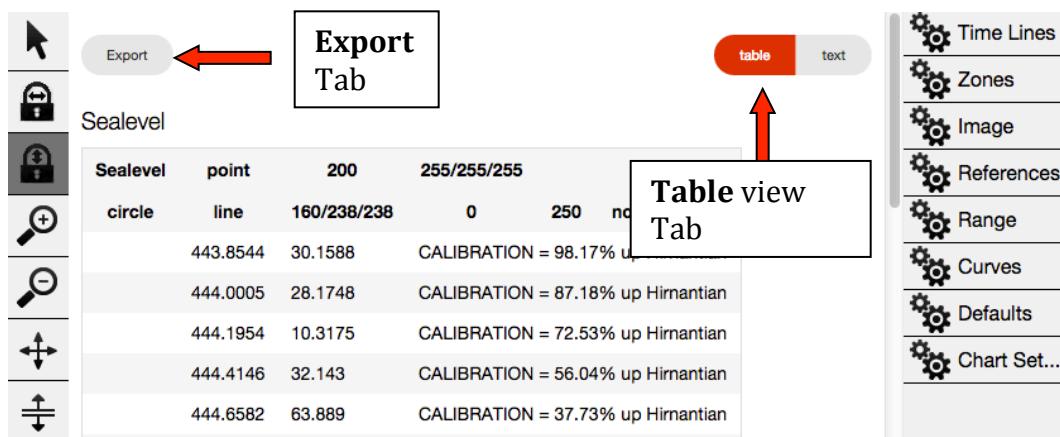
## Saving a txt file:

You can download the data in Timescale Creator format with **Export**  . The **Export Tool** will open up the view containing the tab-separated Timescale Creator format. You can choose to view the **table** to quickly verify the output or use the **text** view.

The **Export Tab** will download a “txt” file called “test\_output.txt” to your computer.

Depending on your settings in Google Chrome the download will be automatic or you have the possibility to choose differen file name.

**Hint:** Make sure you close the right hand side tabs by again clicking on the tab, otherwise you won't see the full screen and the button to switch from **table** to **text** view.



Export

**Export Tab**

format version: 1.4  
date: 9/18/2014  
age units: Ma

Sealevel point 200 255/255/255  
circle line 160/238/238 0 250 notsmoothed  
443.8544 30.1588 CALIBRATION = 98.17% up Hirnantian  
444.0005 28.1748 CALIBRATION = 87.18% up Hirnantian  
444.1954 10.3175 CALIBRATION = 72.53% up Hirnantian  
444.4146 32.143 CALIBRATION = 56.04% up Hirnantian  
444.6582 63.889 CALIBRATION = 37.73% up Hirnantian  
444.9018 85.7143 CALIBRATION = 19.41% up Hirnantian  
445.1927 30.1588 CALIBRATION = 99.58% up Katian  
445.4028 73.8095 CALIBRATION = 96.89% up Katian  
445.6595 113.492 CALIBRATION = 93.60% up Katian  
445.7529 139.2858 CALIBRATION = 92.41% up Katian  
445.9629 99.6033 CALIBRATION = 89.72% up Katian  
446.103 143.254 CALIBRATION = 87.93% up Katian  
446.173 115.4763 CALIBRATION = 87.03% up Katian  
446.173 67.8573 CALIBRATION = 87.03% up Katian  
446.3831 67.8573 CALIBRATION = 84.34% up Katian  
446.4531 99.6033 CALIBRATION = 83.44% up Katian  
446.5465 186.9048 CALIBRATION = 82.25% up Katian  
446.5698 71.8255 CALIBRATION = 81.95% up Katian  
446.7799 79.762 CALIBRATION = 79.26% up Katian  
446.9433 38.0953 CALIBRATION = 77.17% up Katian  
447.5968 50 CALIBRATION = 68.80% up Katian  
447.8302 99.6033 CALIBRATION = 65.81% up Katian  
448.1337 200.7938 CALIBRATION = 61.92% up Katian  
448.2504 212.6985 CALIBRATION = 60.43% up Katian  
448.3438 178.9682 CALIBRATION = 59.23% up Katian  
448.5538 143.254 CALIBRATION = 56.55% up Katian  
448.7872 143.254 CALIBRATION = 53.56% up Katian  
449.1607 176.9843 CAI IRRATION = 48.77% up Katian

Time Lines  
Zones  
Image  
References  
Range  
Curves  
Defaults  
Chart Set...

table text

**Text view Tab**

The finished **txt** file can now be loaded into the TSCreator Pro program.

