Text PIP Updates for SOS v5.5

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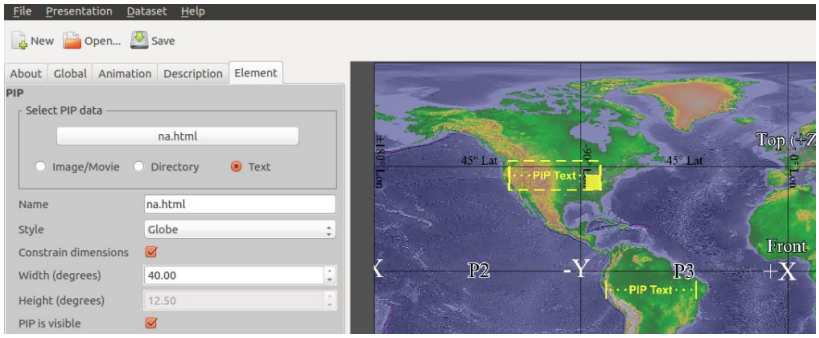
Updates

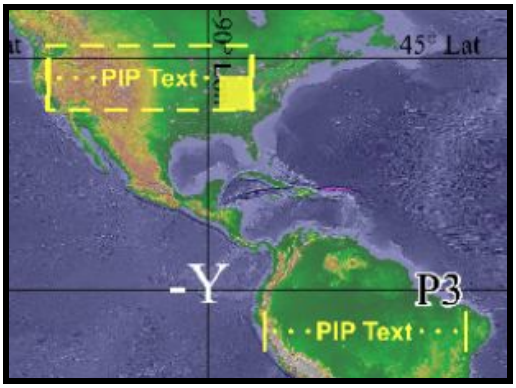
Update #1: Actual text appears in the Preview window!

In the SOS Visual Playlist Editor v5.5, you can now see the actual text of a Text PIP in the Preview window! Prior to v5.5, you could only see a placeholder image and that made it very challenging to get a sense of what the text would look like in a dataset.

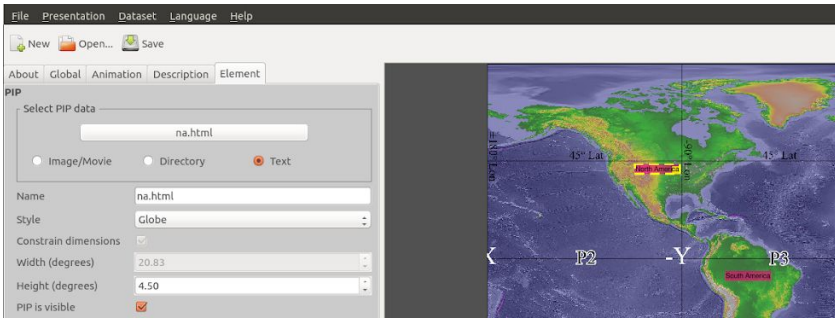
Figure 1

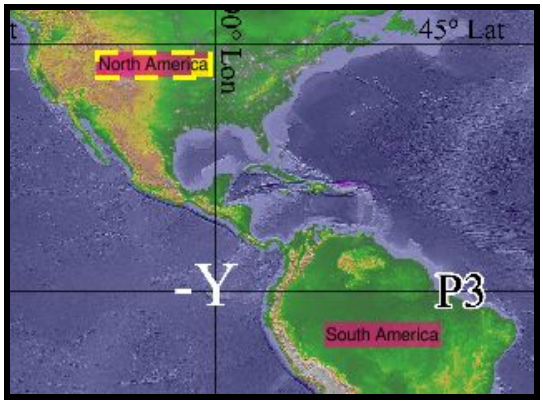
v5.4





v5.5





Update #2: Text scaled to fit PIP height instead of PIP width

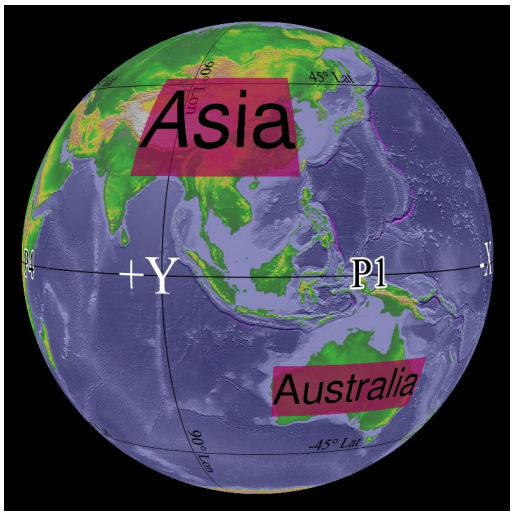
In SOS v5.5, based on feedback from SOS users, an important change was made to how Text PIPs are sized and rendered. Prior to SOS v5.4, Text PIPs were sized based on PIP width and text would get auto-scaled to fit the PIP width. **With SOS v5.5, Text PIPs are sized based on PIP height and text gets auto-scaled to fit the PIP height.**

As an example, prior to v5.5, if you created two Text PIPs - say “Australia” and “Asia” - and you did not resize the Text PIPs and left them at their default PIP width of 40 degrees longitude, the font size for “Asia” would appear really big compared to “Australia” because the software was scaling the text “Asia” to fit into 40 degrees, just as it was scaling the text “Australia” to fit into 40 degrees.

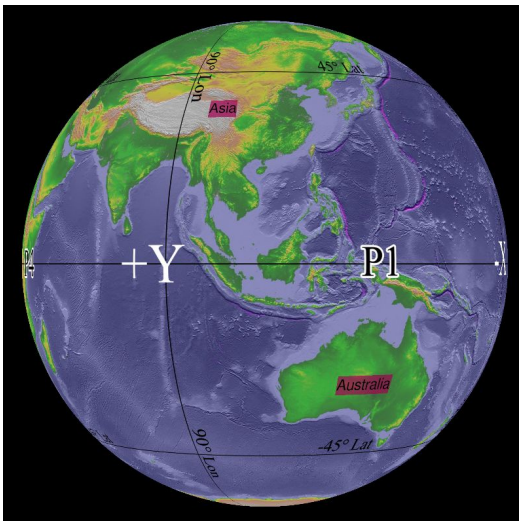
Now, in v5.5, because the software is sized and auto-scaled based on PIP height (the default height is 4.5 degrees latitude), the font size of both Text PIPs will look the same. If you do choose to resize the PIPs and you want the font size to look the same across all one-liner Text PIPs, you simply have to decide on a PIP height and then you can set each of the PIPs to be that height.

Figure 2

v5.4: Using default 40 degree width



v5.5: Using default 4.5 degree height



Steps to take after you upgrade to SOS v5.5 **(PLEASE READ)**

Because of the changes in Text PIP rendering, there are a few scenarios you need to be aware of after you upgrade your software to SOS version 5.5. These scenarios are explained in the next section. You will most likely need to make simple size adjustments to your existing Text PIPs. We understand that this change may be a bit of an inconvenience and appreciate your patience. This will only need to be done once, and going forward, you should have a much better experience creating Text PIPs! If you have any questions, please email: sos.gsd@noaa.gov

For each of your site-custom datasets that contain Text PIPs, you need to:

1. Use the Visual Playlist Editor (VPLE) to open the site-custom dataset.
2. Observe how the Text PIPs look in the VPLE Preview window.
3. Resize any Text PIPs as needed.
4. Save the dataset in the VPLE.
5. Load the dataset onto SOS to confirm you are satisfied with the changes.

Examples of what to expect after the upgrade

Scenario #1: Loading default sized Text PIPs created in v5.4 into v5.5

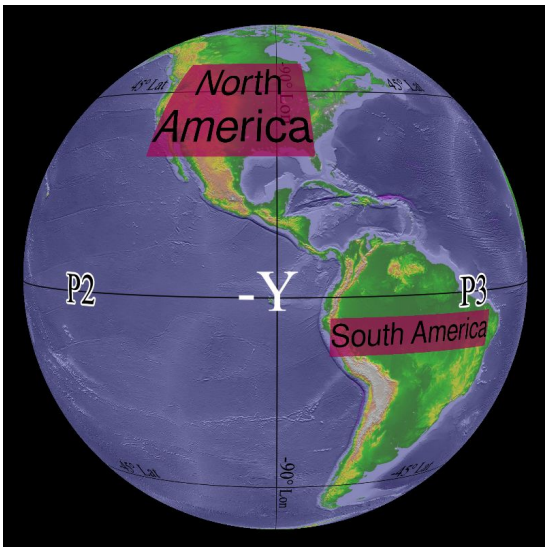
In this case, a default PIP width of 40 degrees was used in v5.4 (i.e. the user did not resize any of the Text PIPs). When loading the dataset into v5.5, the default PIP height of 4.5 is used instead and the text is rendered as shown in Figure 3 below.

To note:

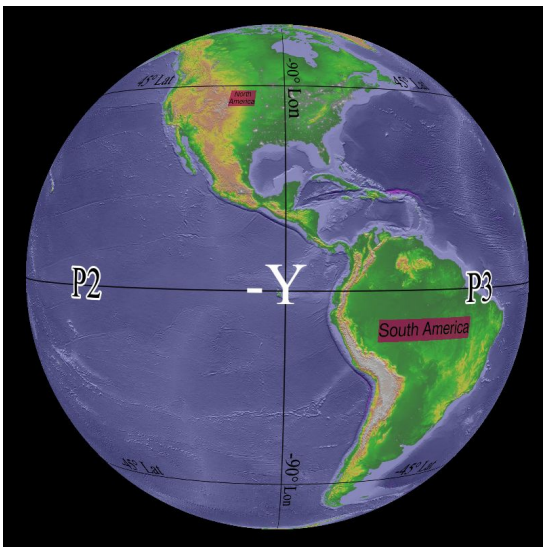
- Even though we have two lines of text present in the "North America" Text PIP, in v5.5, the total height is still 4.5 degrees (i.e. the two lines of text are being auto-scaled to fit the default 4.5 degree height). That is why the font sizes don't look the same between the two Text PIPs as they did in the one-liner Text PIPs shown in the right image of **Figure 2** above. In this example, if you did want the font sizes to look the same, simply double the height of the two-liner Text PIP.
- When you load a v5.4 dataset into a v5.5 VPLE, even if you don't make any changes to the dataset, you may get a Save YES or NO pop-up message because new values may have been auto-computed for the PIP size. You should select YES so that you don't get the Save prompt again.

Figure 3

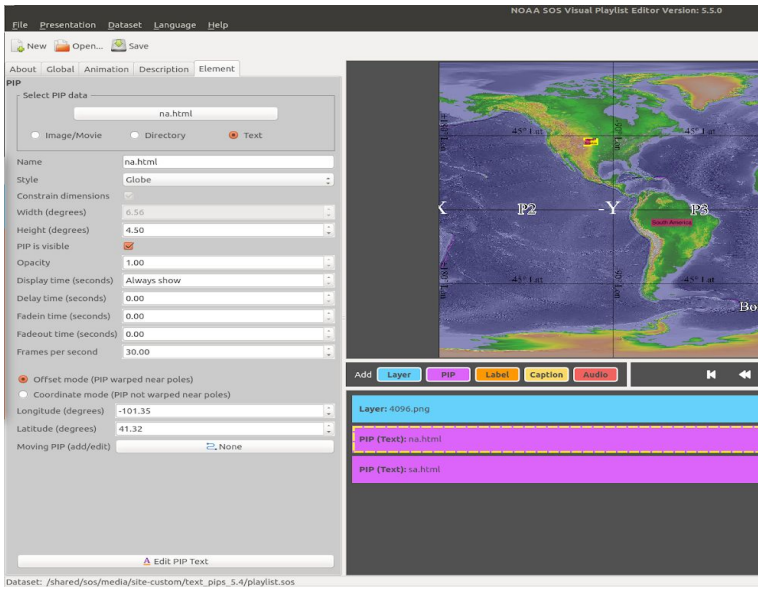
v5.4: Using default 40 degree width

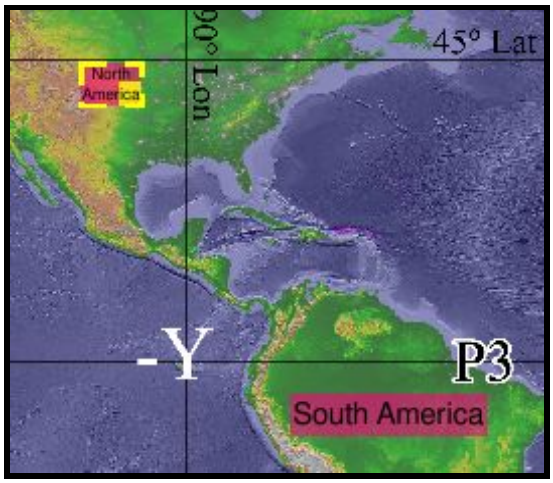


v5.5: Using default 4.5 degree height



v5.5: Using default 4.5 degree height





Scenario #2: Loading resized Text PIPs created in v5.4 into v5.5

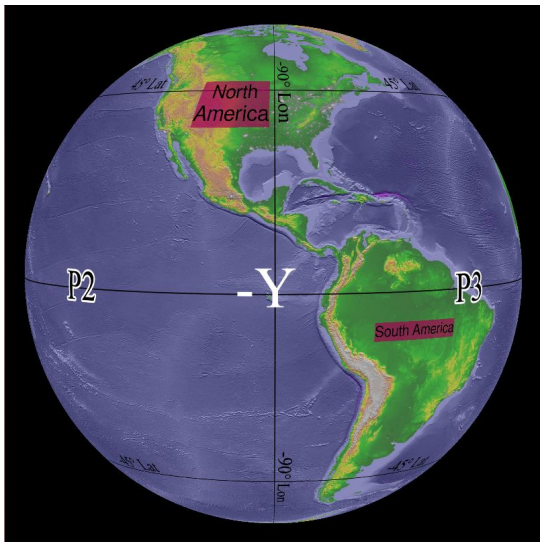
In this case, Text PIPs were created in v5.4 and then resized to each be 20 degrees in width. Because they were resized, an estimated PIP height (in this case, 6.3 degrees) was written to the dataset's playlist file in v5.4. When this dataset gets loaded into v5.5, the rendering is based off of the PIP height that was previously written in the file.

To note:

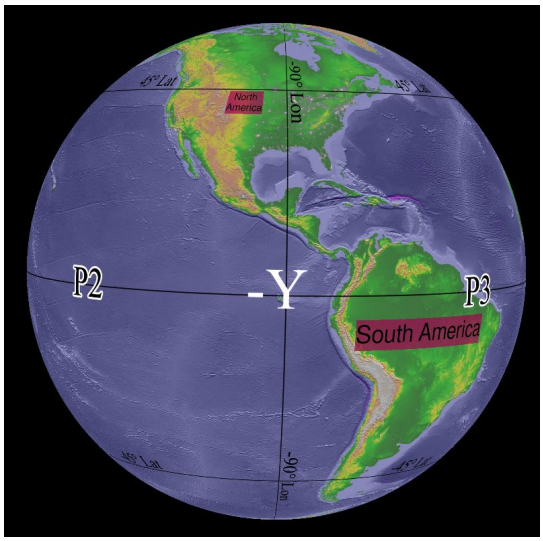
- Even though we have two lines of text present in the “North America” Text PIP, in v5.5, the total height is still 6.3 degrees (i.e. the two lines of text are being auto-scaled to fit the 6.3 degree height). That is why the font sizes don’t look the same between the two Text PIPs as they did in **Figure 2** above. In this example, if you did want the font sizes to look the same, simply double the height of the two-liner Text PIP.
- When you load a v5.4 dataset into a v5.5 VPLE, even if you don’t make any changes to the dataset, you may get a Save YES or NO pop-up message because new values may have been auto-computed for the PIP size. You should select YES so that you don’t get the Save prompt again.

Figure 4

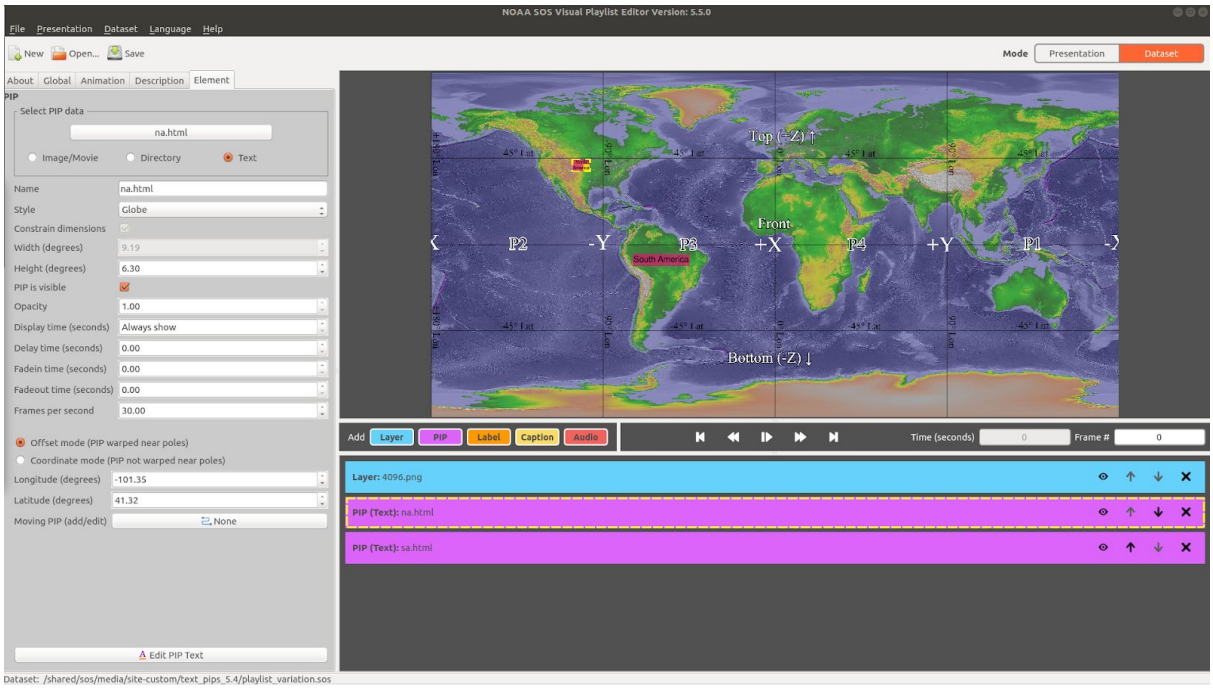
v5.4: Using user-set 20 degrees width



v5.5: Using pre-written 6.3 degrees height



v5.5: Using pre-written 6.3 degree height



Scenario #3: Creating Text PIPs in v5.5 from scratch

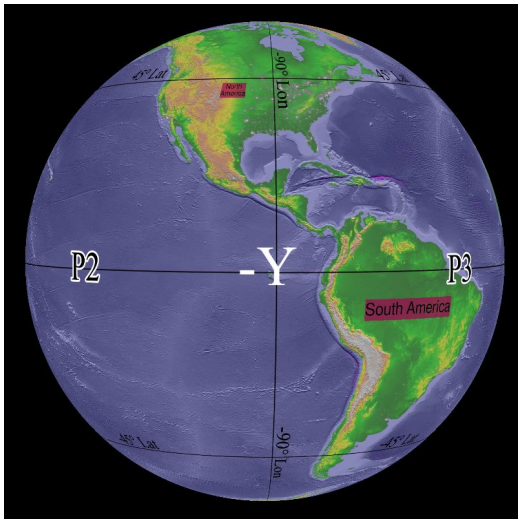
In this case, a new dataset was created in v5.5 of the VPLE and all default values were used.

To note:

- Even though we have two lines of text present in the “North America” Text PIP, in v5.5, the total height is still 4.5 degrees (i.e. the two lines of text are being auto-scaled to fit the default 4.5 degree height). That is why the font sizes don’t look the same between the two Text PIPs as they did in the right image of **Figure 2** above. In this example, if you did want the font sizes to look the same, simply double the height of the two-liner Text PIP.

Figure 5

v5.5: Using default 4.5 degree height



v5.5: Using default 4.5 degree height