SBMT

Mapping Structures



This SBMT tutorial explains how to:

- Draw paths, polygons, circles, ellipses, and points on shape models
- Add names and labels to structures
- Save and load structures files
- Change display properties of structures

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The structures panel

- Located in the control panel
- Contains five tabs, one for each type of structure



Drawing paths

- Switch to Structures tab and click on "Paths".
- Press "New" to begin drawing a path.
- Click on the shape model to specify the vertices of the path.
- Press "Edit" when finished drawing the path.

Note: Clicking "New" puts the SBMT into "edit" mode: the shape model is frozen in the rendering panel. Rotate, zoom, and pan functions do not work in "edit" mode. Once "edit" is unselected, the SBMT returns to normal navigation.







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Drawing polygons

- Switch to Structures tab and click on "Polygons".
- Press "New" to begin drawing a polygon.
- Click on the shape model to specify the vertices of the polygon.
- Press "Edit" when finished drawing the polygon.

Note: Clicking "New" puts the SBMT into "edit" mode: the shape model is frozen in the rendering panel. Rotate, zoom, and pan functions do not work in "edit" mode. Once "edit" is unselected, the SBMT returns to normal navigation.





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Drawing circles

Note: The shape model is frozen when in "edit" mode. Rotate, zoom, and pan functions do not work. Once "edit" is unselected, the SBMT returns to normal navigation.

- Switch to Structures tab and click on "Circles".
- Press "Edit" to begin drawing a circle.
- Click 3 points to define a circle. After clicking the third one, a circle appears passes through those points.
- Click another 3 locations to draw a second circle, etc.
- Press "Edit" when finished drawing circles.



Ready.

Lat: 19.642° Lon: 322.323° Radius: 269.095 km Range: 1243.285 km

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Change size and position of circles

- Click "Edit" to enter editing mode.
- Position the cursor over a circle. The cursor will change to a hand shape.
- To move a circle: left-click on the circle and drag the circle to the desired location.
- To change a circle's size: left-click on the circle, hold down the shift or control key, and drag the boundary.

Drawing ellipses

Note: The shape model is frozen when in "edit" mode. Rotate, zoom, and pan functions do not work. Once "edit" is unselected, the SBMT returns to normal navigation.

- Switch to Structures tab and click on "Ellipses".
- Press "Edit" to begin drawing a circle.
- Click 3 times: two points along the semi-major axis and a third to set the semi-minor axis.
- Click another 3 points to draw a second ellipse, etc.
- Press "Edit" again when finished drawing ellipses.



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ellipse, Id = 1, Diameter = 219.61497517241384 km

Change ellipse properties (part 1)

- Click "Edit" to enter editing mode.
- Position the cursor over an ellipse. The cursor will change into a hand shape.
- To move an ellipse: left-click on the ellipse and drag it to the desired location.
- To change an ellipse's size: left-click on the ellipse, hold down shift or control, and drag the boundary.

Change ellipse properties (part 2)

- To change the flattening of an ellipse (ratio of semimajor to semi-minor axes): hold down the "z" or "/" keys, left-click on the ellipse, and drag the ellipse boundary.
- To change an ellipse's size: hold down the shift button, left-click on the ellipse, and drag the boundary.

Drawing points

Note: The shape model is frozen when in "edit" mode. Rotate, zoom, and pan functions do not work. Once "edit" is unselected, the SBMT returns to normal navigation.

- Switch to Structures tab and click on "Points".
- Press "Edit" to begin drawing points.
- Each time you left-click on the shape model, a point appears at that location.
- Press "Edit" again when finished drawing points.



Ready.

Lat: 13.612° Lon: 295.530° Radius: 267.054 km Range: 1247.132 km



Ready.

Range: 1247.132 km

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This SBMT tutorial explains how to:

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Names and labels overview

- Names and labels work the same for all five types of structures.
- Users can add, edit, or delete the name of a structure.
- Users can add, edit, delete, and hide labels.

Adding and editing names

- Expand the control panel, if needed, to see the "name" column of the structures panel.
- Double click the name cell next to the structure you wish to name.
- Type in the desired name (e.g., the name of a crater).
- To edit or delete the name, double click the name cell once more.

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Range: 1231.085 km

Adding and editing labels

- Expand the control panel, if needed, to see the "label" column of the structures panel.
- Double click the label cell next to the structure you wish to annotate.
- Type the label (e.g., description of a crater).
- Edit the text at will.



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Saving a structures file

- Click "Save" near the top of the structures tab. A new window will open.
- Choose the directory where you want to save the file.
- Give the file a useful name.
- Click "Save". The window will close.

Note: You must save each type of structure separately. Paths and polygons are saved as XML files. Circles, ellipses, and points are saved as tab-separated text files. See the SBMT User Manual at http://sbmt.jhuapl.edu/docs/Manual.pdf for additional information about the saved structures files.

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Loading a structures file

- Select the appropriate object from the "Body" menu.
- Select the appropriate type of structure from the "Structures" tab.
- Click "Load" near the top of the structures tab.
- Navigate to the saved structure file.
- Click "Open". The structures will appear on the body.

Loading a structures file (cont.)

- If a user edits an exported structures file in Excel (e.g., to select a subset of the data), the SBMT may give an error that says "There was an error reading the file" when the file is re-imported because of invisible characters added by Microsoft.
- The file should load once these invisible characters are removed.



Ready.

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Changing display properties

Users can change the following for structures:

✤ Color

- Line width (for paths, polygons, circles, and ellipses)
- Point diameter (for points only)

Changing structure color

- Right click on the structure whose color you wish to change.
- Click "change color" from the pop-up menu.
- Choose a color from the Color Choose Dialog.
- Click "OK".
- Individual structures can be given their own colors.

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circle, Id = 7, Diameter = 25.876617218679872 km

Range: 1500.380 km

Changing line width

- Click "Change Line Width".
- Enter the desired line width.
- Click "OK".
- The line widths of the displayed structures should update. The change affects only one type of structure (e.g., circles if you click "Change Line Width" from the circles tab).

• •					SBMT - /	steroids > Main	Belt > 4 Vesta > I	image-based > Gaskell (2013)			
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circle, Id = 8, Diameter = 27.73407301708463 km



circle, Id = 8, Diameter = 27.73407301708463 km

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Changing point diameter





SBMT

For more information, visit sbmt.jhuapl.edu.

