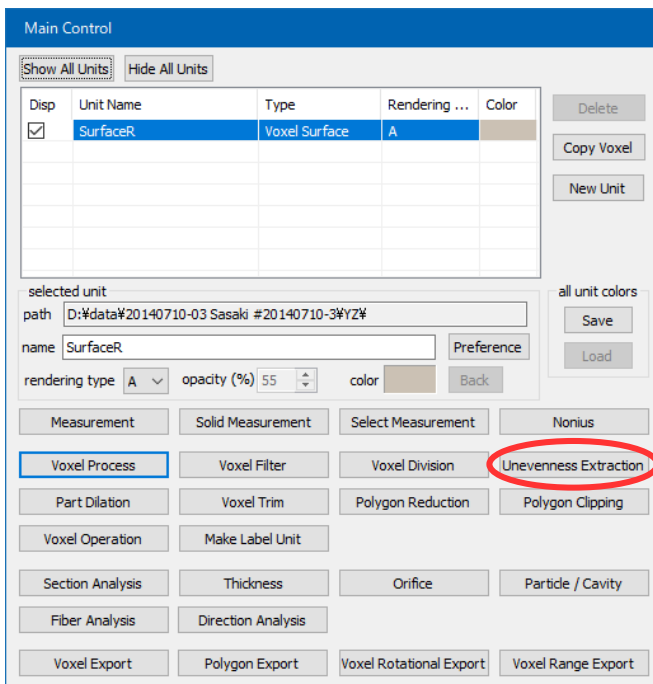
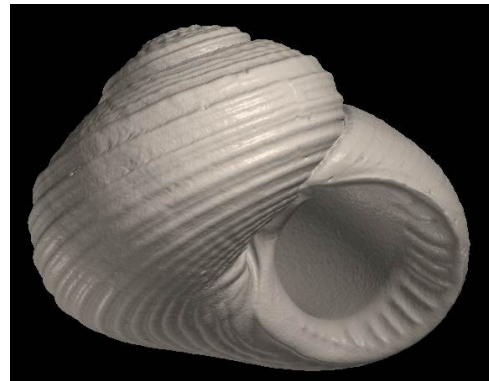


Measurement: measure inner volume of snail

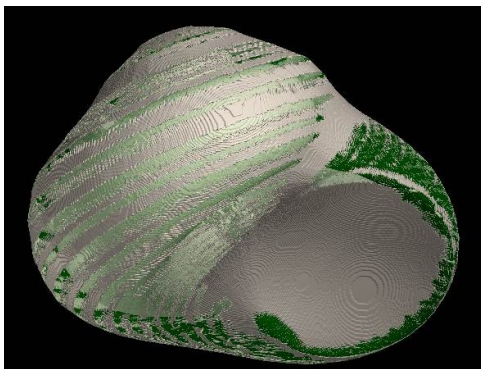
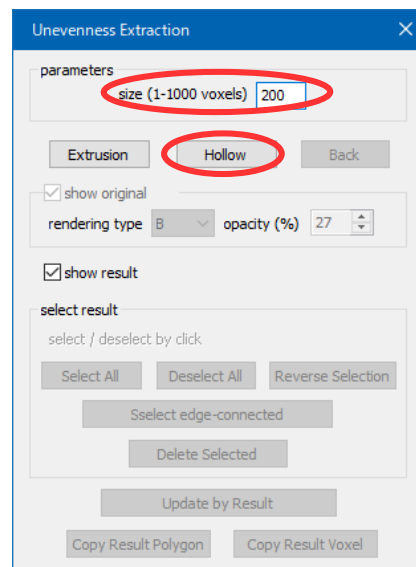
For v1.7

Try to measure inner volume of snail.



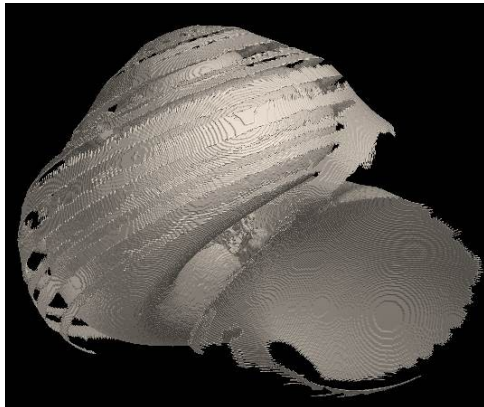
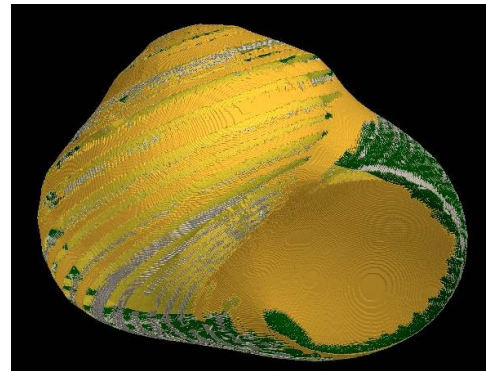
Change to "Surface Rendering" and press "Unevenness Extraction".

Set "size" to 200 and press "Hollow".



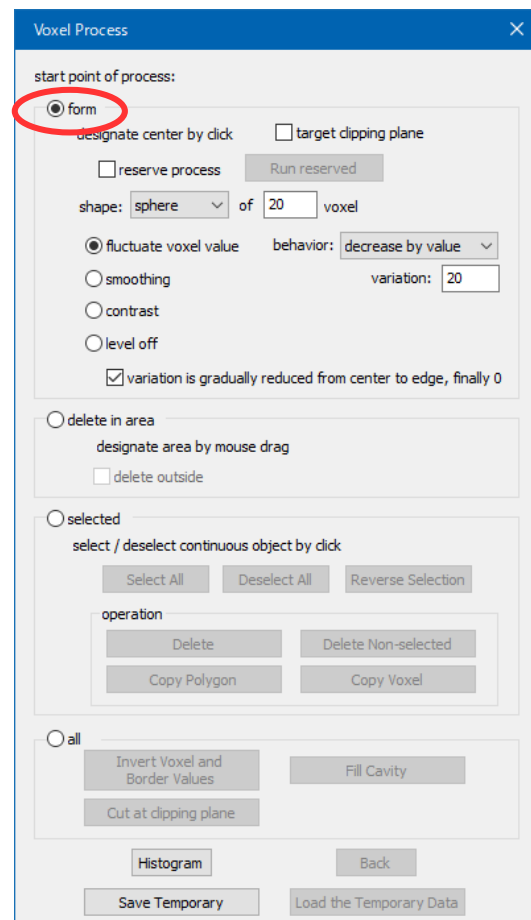
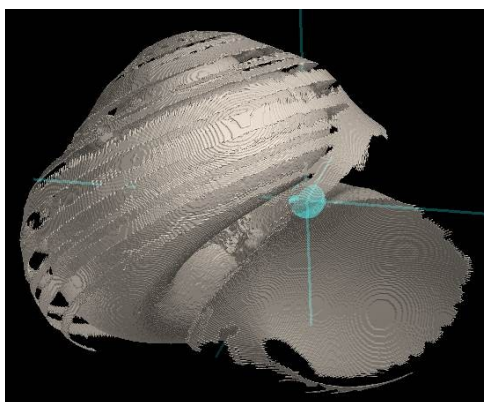
After hollow extraction, holes are filled.

Select inner hole part by click, press "Copy Result Voxel".
Close "Unevenness" dialog.

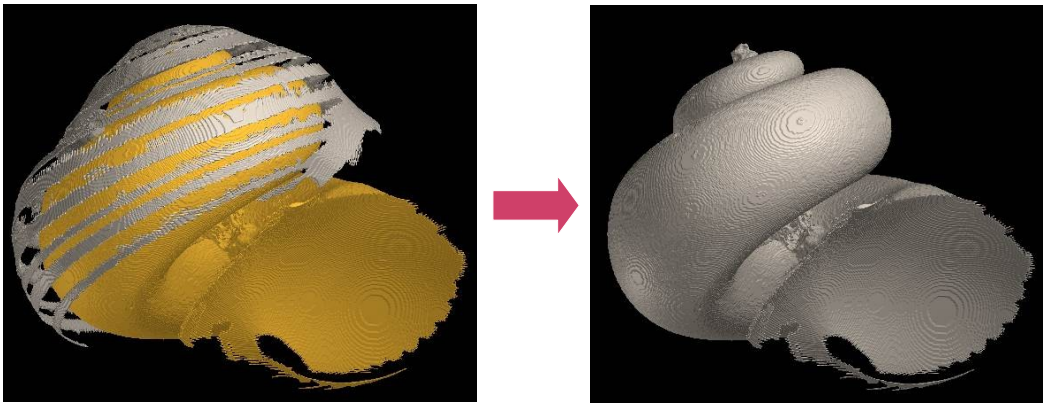


Hide original unit.
Next step is voxel process to remove unnecessary parts.

Press "Voxel Process".
Separate unnecessary outer parts by "form" manipulation.



In "selected" manipulation, select only inner part and press "Delete Non-selected" to remove unnecessary parts at once.



Extraction is completed.
Last step is measurement.



Press "Solid Measurement". Select extracted inner area to know its volume and so on.

Main Control

Show All Units Hide All Units

Disp	Unit Name	Type	Rendering ...	Color
<input type="checkbox"/>	SurfaceR	Voxel Surface	A	
<input checked="" type="checkbox"/>	BeVox_0	Voxel Surface	A	

selected unit
path YZ_0_ct%

name BeVox_0 Preference

rendering type A opacity (%) 55 color Back

all unit colors Save Load

Measurement **Solid Measurement** Select Measurement Nonius

Voxel Process Voxel Filter Voxel Division Unevenness Extraction

Part Dilation Voxel Trim Polygon Reduction Polygon Clipping

Voxel Operation Make Label Unit

Section Analysis Thickness Orifice Partide / Cavity

Fiber Analysis Direction Analysis

Voxel Export Polygon Export Voxel Rotational Export Voxel Range Export

Solid Measurement

select / deselect continuous voxels by click

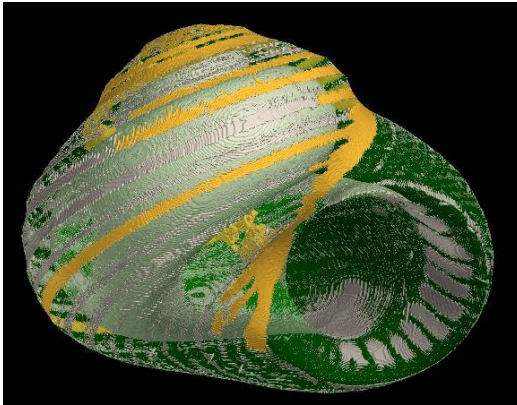
Select All Deselect All Reverse Selection

Copy Center of Mass Histogram

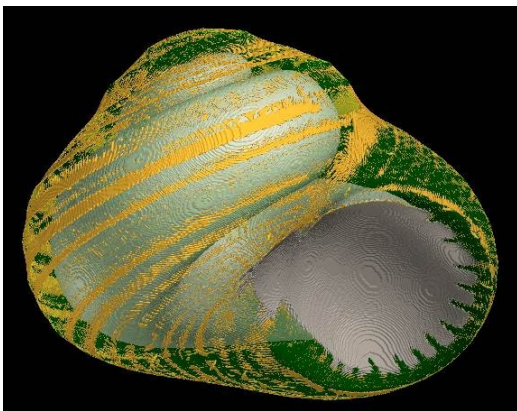
result (measuring unit: mm)

average of voxel value = 46.6744
standard deviation of voxel value = 21.6834
number of voxels = 3464
volume = 25.855934
surface area = 82.753985
center of mass = -53.8097, -20.5029, -10.0791
radius of same volume sphere = 1.83439

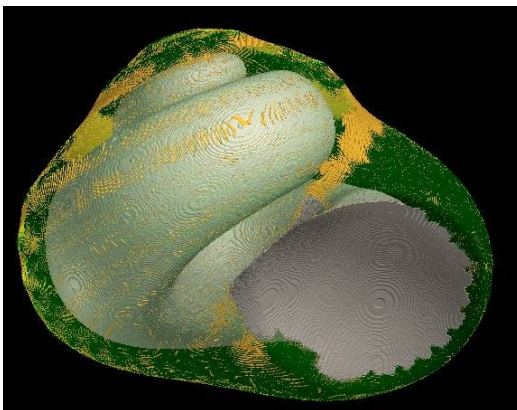
Show another method by "Unevenness Extraction" only.
Fill smaller hollows previously by increasing "size" gradually.



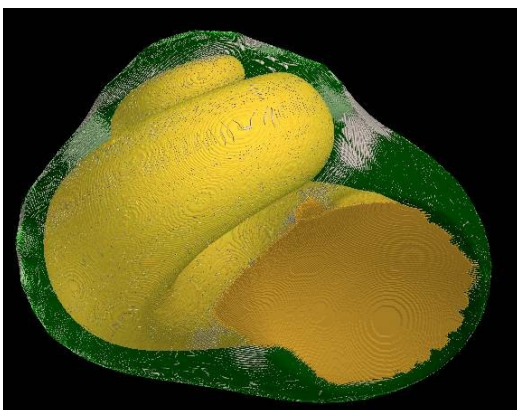
Extract hollows by "size" 70. Select outer parts and press "Update by Result".



Extract hollows again by "size" 100. Select all parts except inner hole and press "Update by Result".



Extract hollows again by "size" 150. Select all parts except inner hole and press "Update by Result".



Extract hollows again by "size" 200. Inner hole area is extracted.