



wwPDB EM Validation Summary Report ⓘ

Mar 31, 2021 – 10:16 am BST

EMDB ID : EMD-2329
Title : electron cryo-tomography reconstruction and subvolume averaging of the Trichonympha proximal basal body
Authors : Guichard, P.; Hachet, V.; Majubu, N.; Neves, A.; Demurtas, D.; Olieric, N.; Fluckiger, I.; Yamada, A.; Kihara, K.; Nishida, Y.; Moriya, S.; Steinmetz, M.O.; Hongoh, Y.; Gonczy, P.
Deposited on : 2013-03-11
Resolution : 38.00 Å(reported)

This is a wwPDB EM Validation Summary Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/EMMapValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

EMDB validation analysis : 0.0.0.dev75
Validation Pipeline (wwPDB-VP) : 2.18

1 Experimental information ⓘ

Property	Value	Source
EM reconstruction method	SUBTOMOGRAM AVERAGING	Depositor
Imposed symmetry	Not Provided	
Number of subtomograms used	600	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Not provided	
Microscope	FEI TECNAI 20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	Not provided	
Minimum defocus (nm)	Not provided	
Maximum defocus (nm)	Not provided	
Magnification	29000.0	Depositor
Image detector	Not provided	
Maximum map value	1.441	Depositor
Minimum map value	-7.590	Depositor
Average map value	-3.727	Depositor
Map value standard deviation	0.671	Depositor
Recommended contour level	-3.07	Depositor
Map size (Å)	1500.0, 1500.0, 502.5	wwPDB
Map dimensions	200, 200, 67	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	7.5, 7.5, 7.5	Depositor

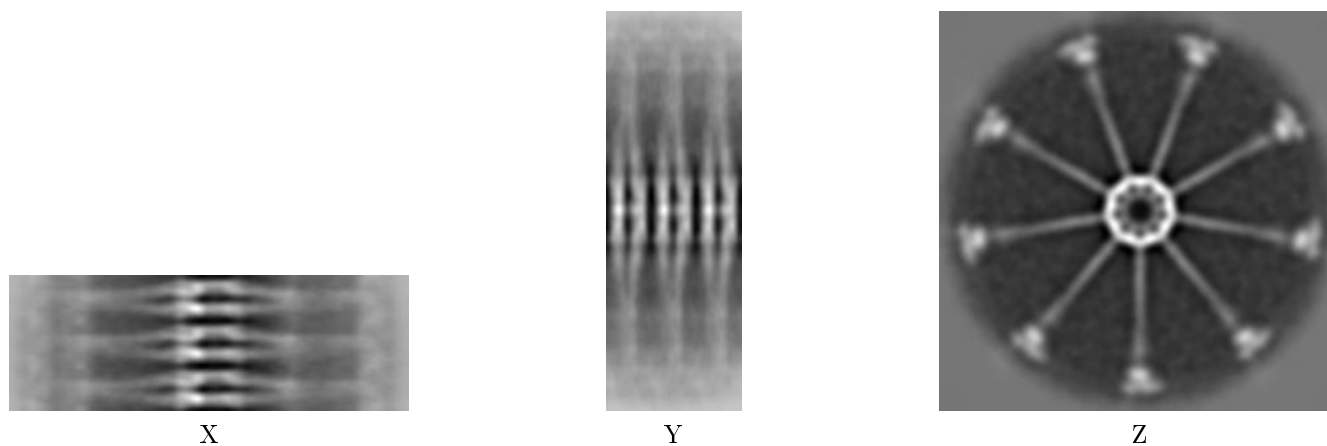
2 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-2329. These allow visual inspection of the internal detail of the map and identification of artifacts.

No raw map or half-maps were deposited for this entry and therefore no images, graphs, etc. pertaining to the raw map can be shown.

2.1 Orthogonal projections [i](#)

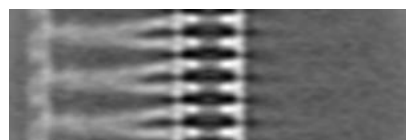
2.1.1 Primary map



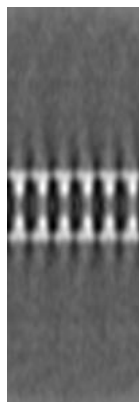
The images above show the map projected in three orthogonal directions.

2.2 Central slices [i](#)

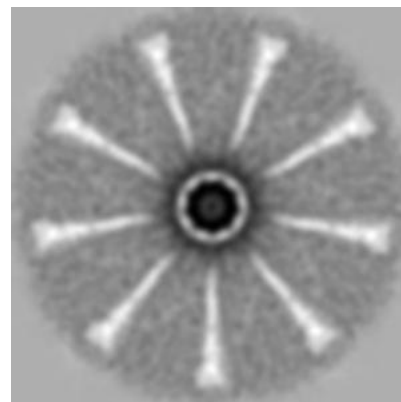
2.2.1 Primary map



X Index: 100



Y Index:
100

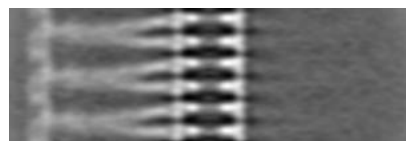


Z Index: 33

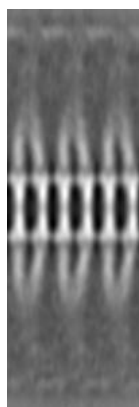
The images above show central slices of the map in three orthogonal directions.

2.3 Largest variance slices [i](#)

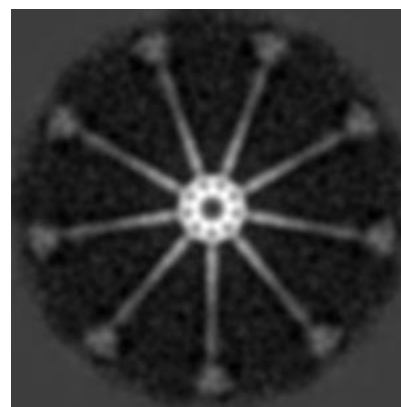
2.3.1 Primary map



X Index: 100



Y Index:
94

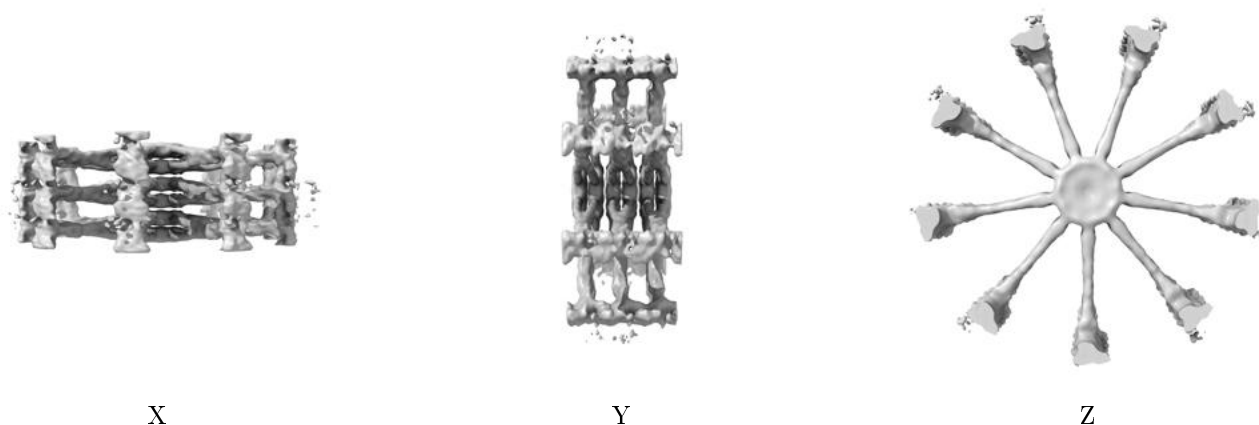


Z Index: 28

The images above show the largest variance slices of the map in three orthogonal directions.

2.4 Orthogonal surface views [i](#)

2.4.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level - 3.07. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

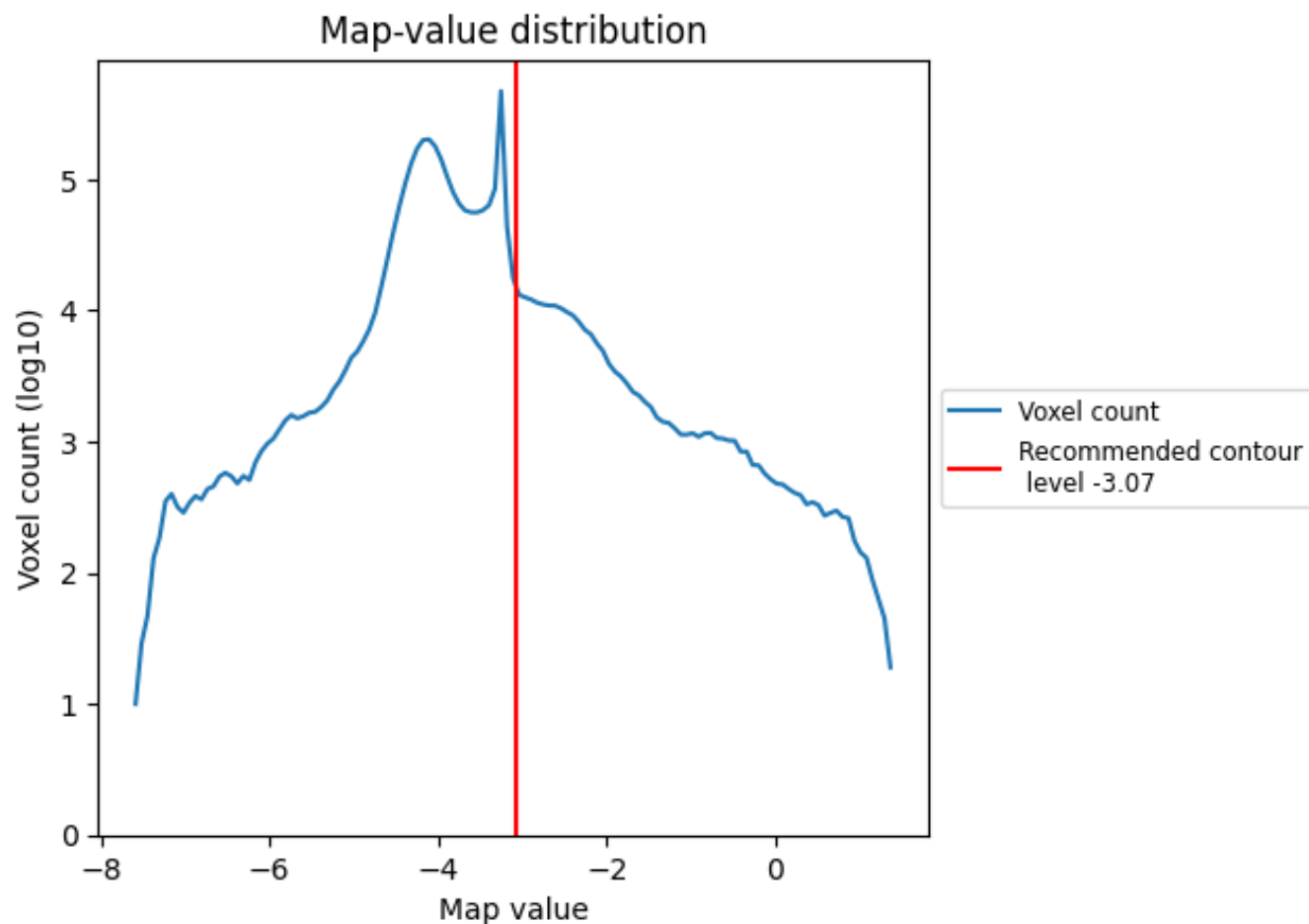
2.5 Mask visualisation [i](#)

This section was not generated. No masks/segmentation were deposited.

3 Map analysis [i](#)

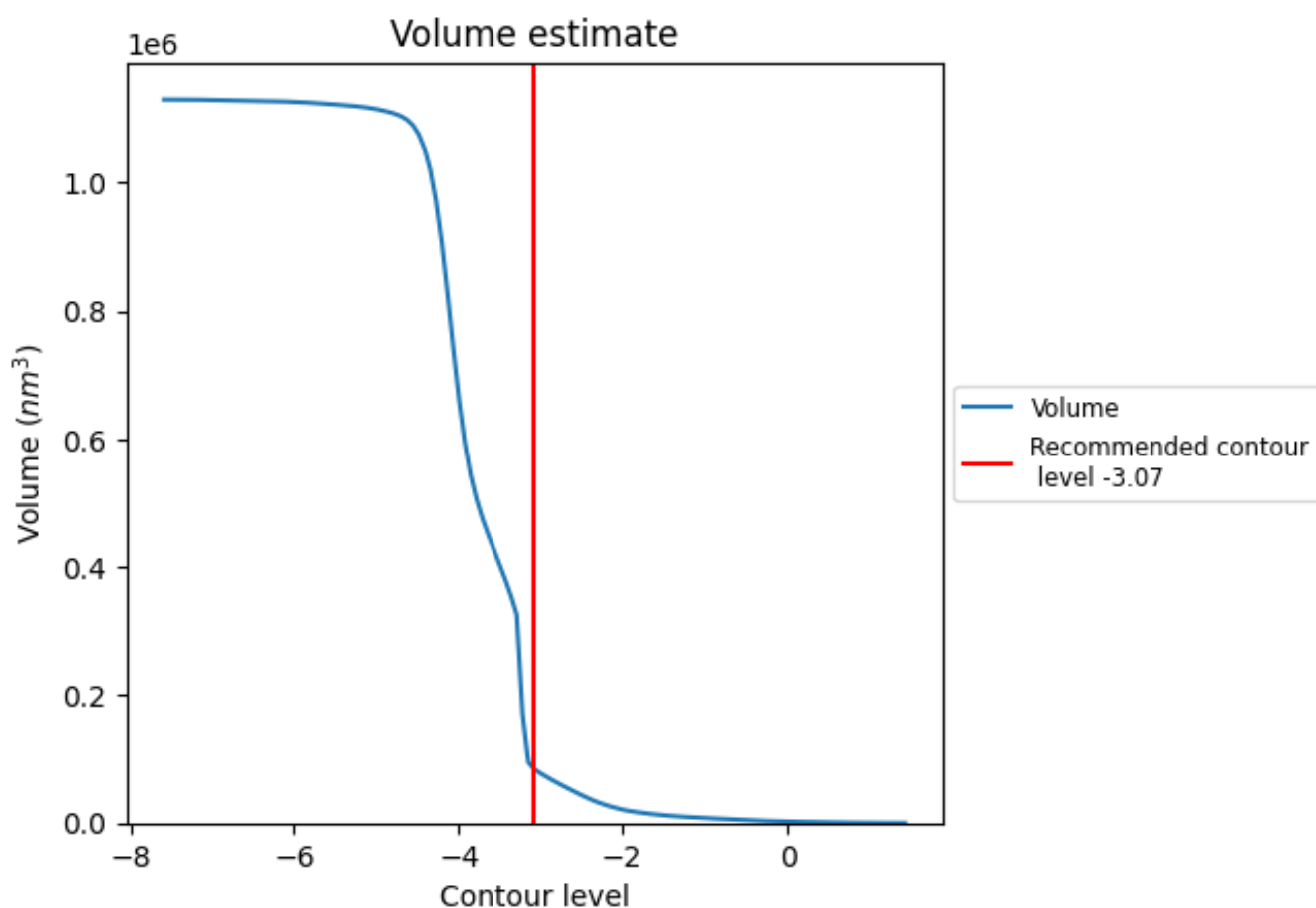
This section contains the results of statistical analysis of the map.

3.1 Map-value distribution [i](#)



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

3.2 Volume estimate [i](#)



The volume at the recommended contour level is 83806 nm³; this corresponds to an approximate mass of 75705 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

3.3 Rotationally averaged power spectrum [i](#)

This section was not generated. The rotationally averaged power spectrum is only generated for cubic maps.

4 Fourier-Shell correlation ⓘ

This section was not generated. No FSC curve or half-maps provided.