



Full wwPDB EM Map Validation Report ⓘ

Aug 31, 2020 – 11:59 AM EDT

EMDB ID : EMD-22519
Title : The N-terminus of varicella-zoster virus glycoprotein B has a functional role in fusion
Deposited on : 2020-08-27
Resolution : 7.30 Å(reported)

This is a Full wwPDB EM Map Validation Report.

This report is produced by the wwPDB biocuration pipeline after annotation of the structure.

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.dev33
Validation Pipeline (wwPDB-VP) : 2.13.1

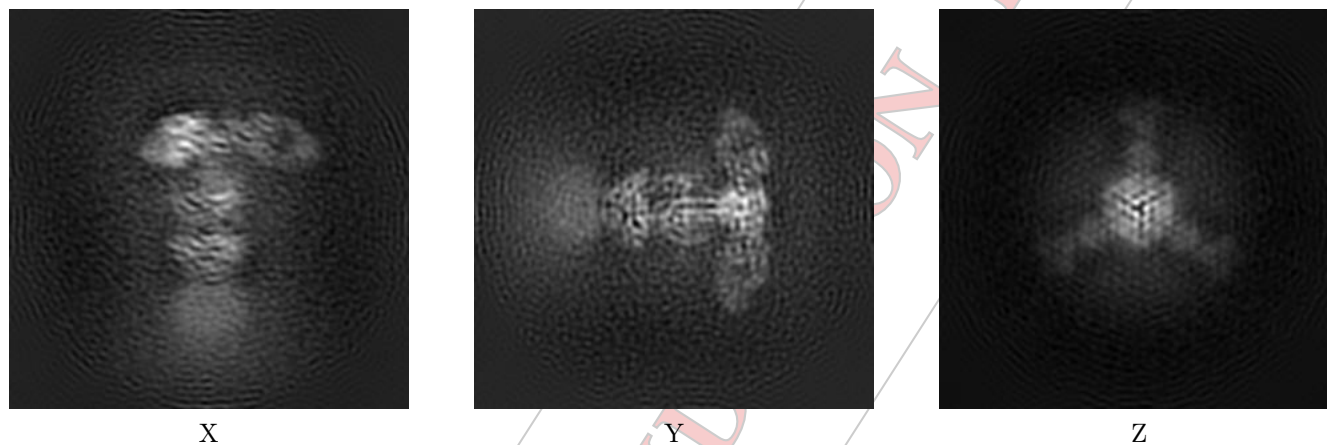
1 Experimental information [i](#)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	Depositor
Number of particles used	39591	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	FEI TECNAI F20	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/\text{\AA}^2$)	7.8	Depositor
Minimum defocus (nm)	Not provided	Depositor
Maximum defocus (nm)	Not provided	Depositor
Magnification	Not provided	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	3.198	Depositor
Minimum map value	-2.058	Depositor
Average map value	-0.000	Depositor
Map value standard deviation	0.096	Depositor
Recommended contour level	0.5	Depositor
Map size (Å)	384.90018, 384.90018, 384.90018	Depositor
Map dimensions	300, 300, 300	Depositor
Map angles (°)	90.0, 90.0, 90.0	Depositor
Pixel spacing (Å)	1.2830006, 1.2830006, 1.2830006	Depositor

2 Map visualisation [i](#)

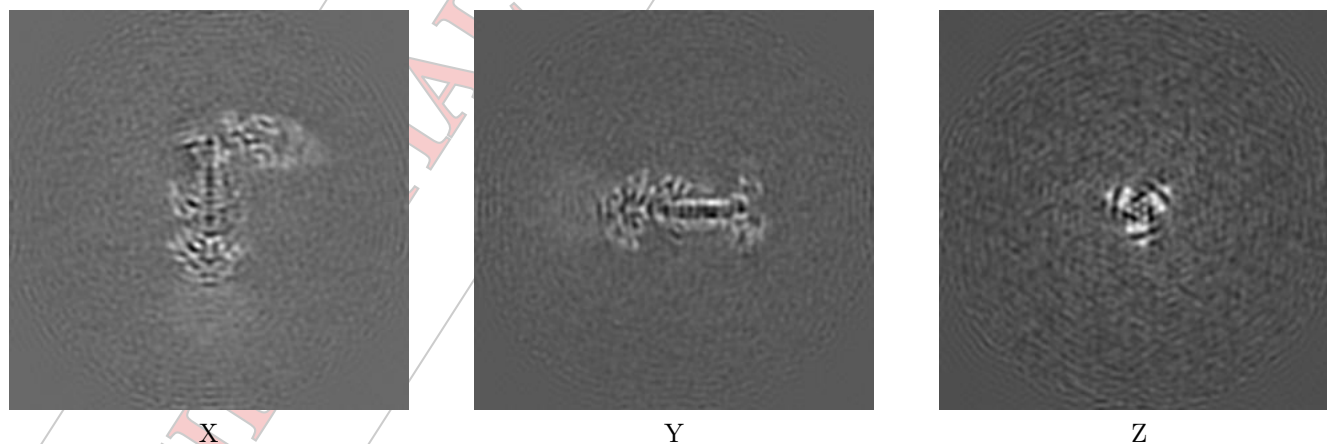
This section contains visualisations of the EMDB entry EMD-22519. These are intended to permit visual inspection of the internal detail of the map and identification of artifacts.

2.1 Orthogonal projections [i](#)



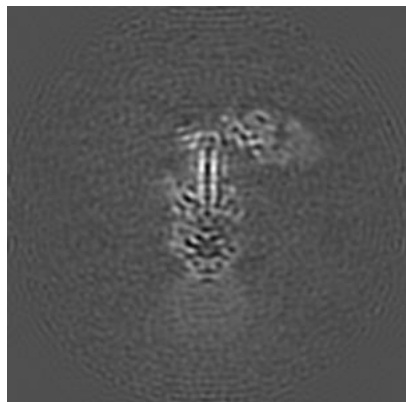
The images above show the map projected in three orthogonal projections, in greyscale.

2.2 Central slices [i](#)

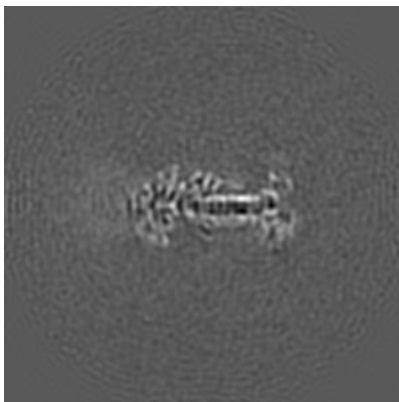


The images above show central slices of the map in three orthogonal directions, in greyscale.

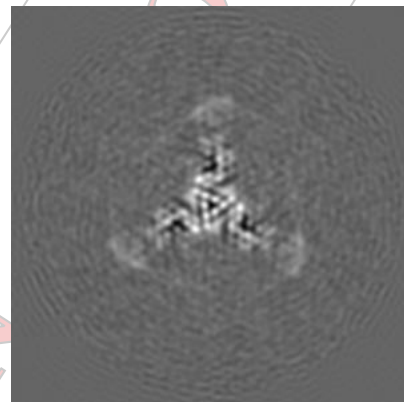
2.3 Largest variance slices [i](#)



X Index: 147



Y Index: 150



Z Index: 201

The images above show the highest variance slices of the map in three orthogonal directions, in greyscale.

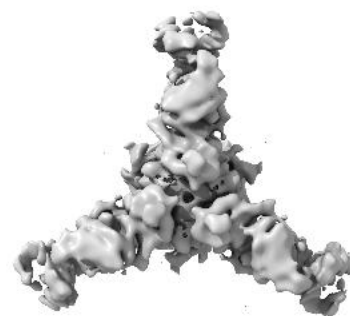
2.4 Orthogonal surface views [i](#)



X



Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.5. This in conjunction with the slice images can indicate whether an appropriate contour level has been selected.

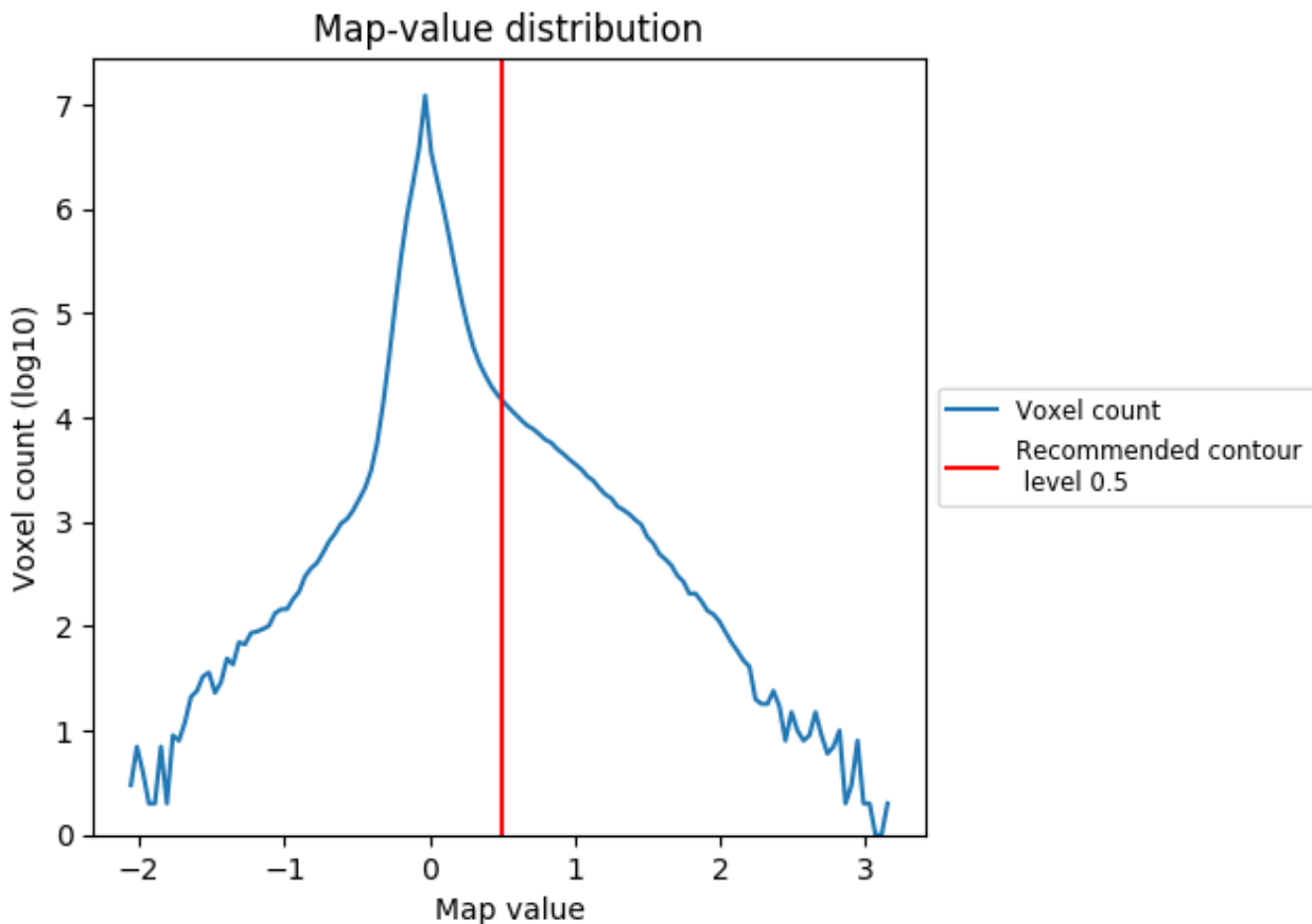
2.5 Mask visualisation [i](#)

This section was not generated. No masks were provided.

3 Map analysis [i](#)

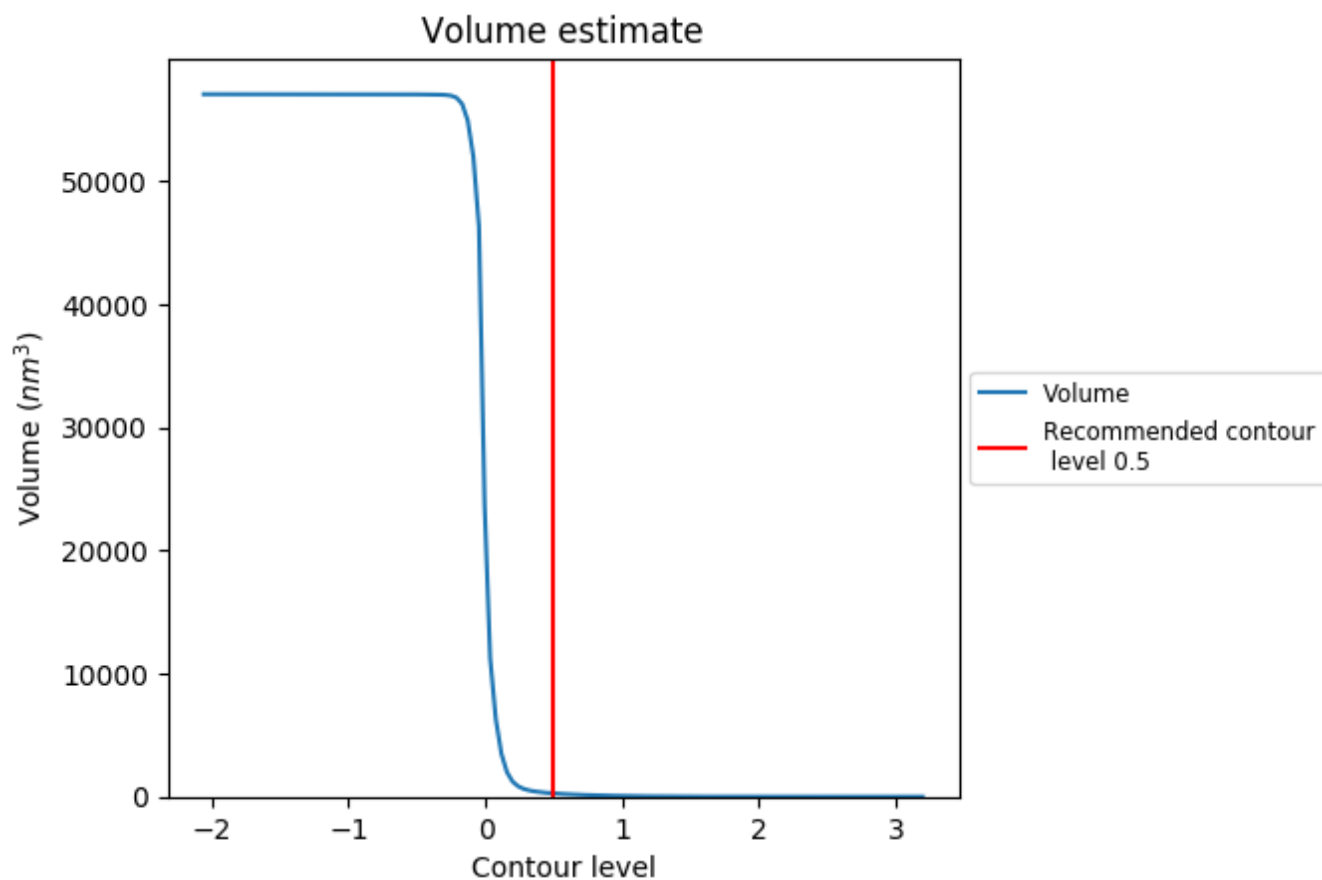
This section contains the results of statistical analysis of the map.

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.

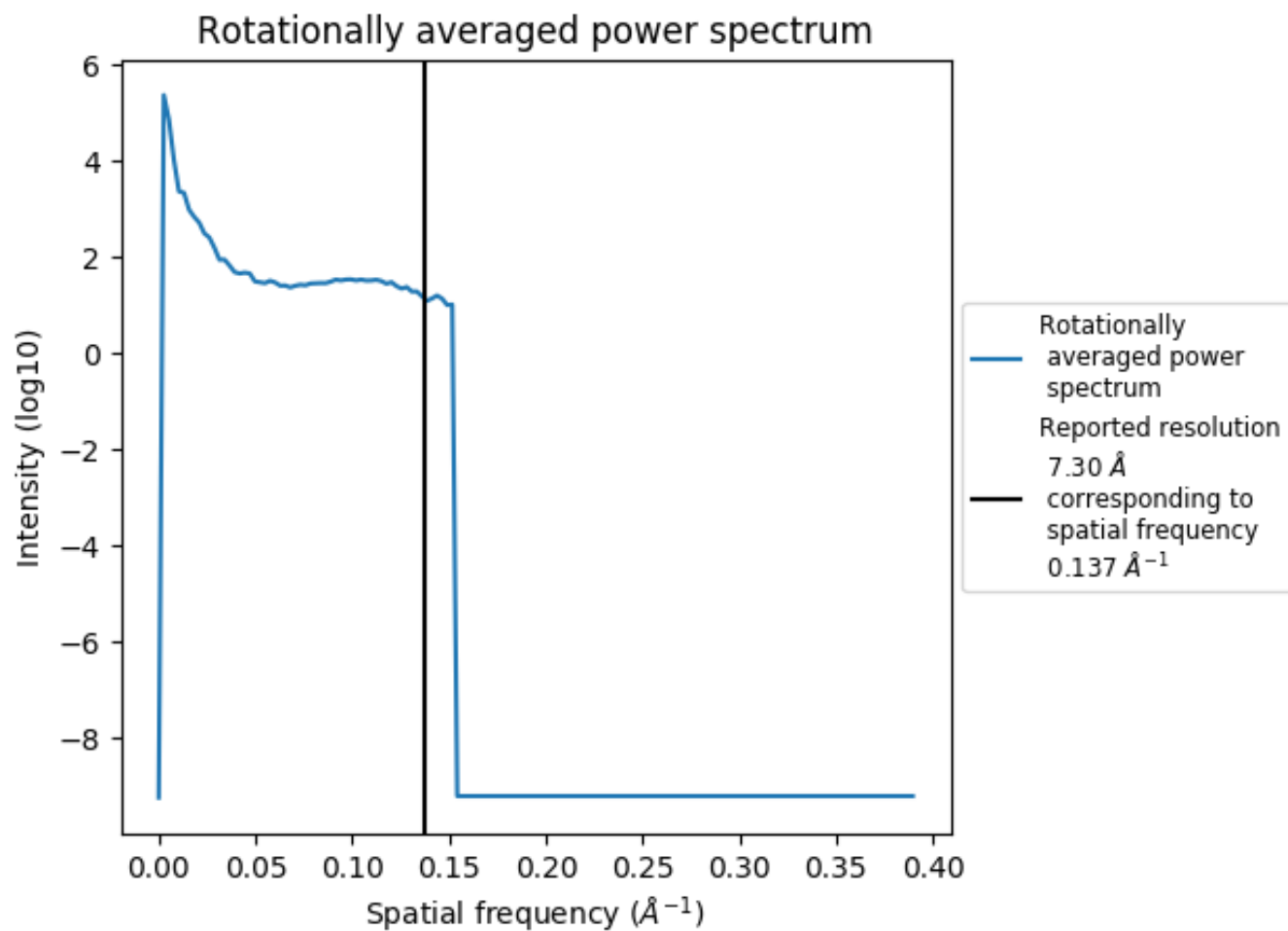
3.2 Volume estimate [i](#)



The volume at the recommended contour level is 268 nm³; this corresponds to an approximate mass of 242 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



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4 Fourier-Shell correlation [i](#)

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

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