

# wwPDB EM Validation Summary Report (i)

Mar 31, 2021 – 10:01 am BST

EMDB ID : EMD-1711

Title : Pyrococcus furiosus RNA Polymerase

Authors: Kusser, A.G.; Bertero, M.G.; Naji, S.; Becker, T.; Thomm, M.; Beckmann,

R.; Cramer, P.

Deposited on : 2010-03-31

Resolution : 13.00 Å(reported)

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

The following versions of software and data (see references (1)) were used in the production of this report:

EMDB validation analysis : 0.0.0.dev75

Validation Pipeline (wwPDB-VP) : 2.1

# 1 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	Not Provided	
Number of particles used	22240	Depositor
Resolution determination method	FSC 0.5 CUT-OFF	Depositor
CTF correction method	Wiener filtering of defocus group volumes	Depositor
Microscope	FEI TECNAI F30	Depositor
Voltage (kV)	300	Depositor
Electron dose $(e^-/\text{Å}^2)$	25	Depositor
Minimum defocus (nm)	1.5	Depositor
Maximum defocus (nm)	3.5	Depositor
Magnification	67000.0	Depositor
Image detector	KODAK SO-163 FILM	Depositor
Maximum map value	0.000	Depositor
Minimum map value	-0.000	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.000	Depositor
Recommended contour level	1e-06	Depositor
Map size (Å)	222.75, 222.75, 222.75	wwPDB
Map dimensions	180, 180, 180	wwPDB
Map angles (°)	90, 90, 90	wwPDB
Pixel spacing (Å)	1.2375, 1.2375, 1.2375	Depositor



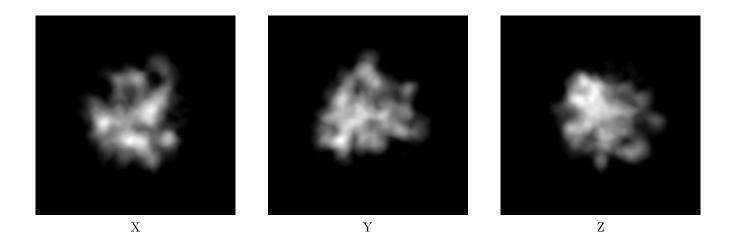
# 2 Map visualisation (i)

This section contains visualisations of the EMDB entry EMD-1711. 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)

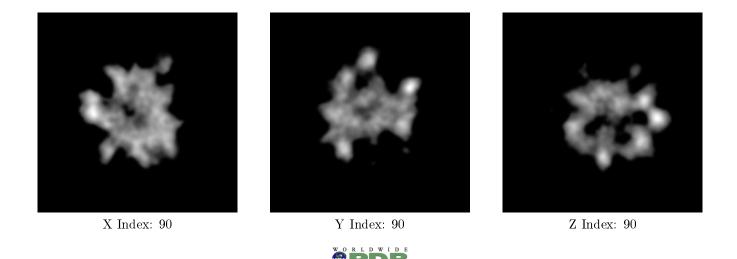
#### 2.1.1 Primary map



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

### 2.2 Central slices (i)

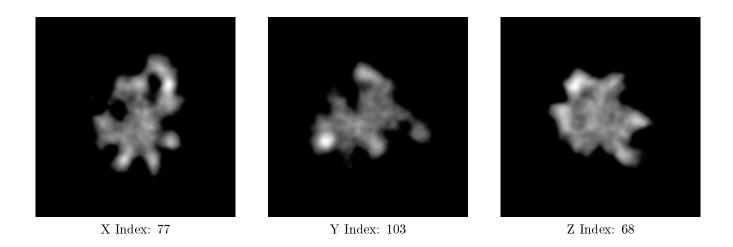
#### 2.2.1 Primary map



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

### 2.3 Largest variance slices (i)

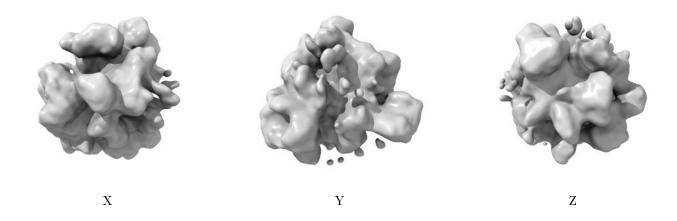
#### 2.3.1 Primary map



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 1e-06. 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)

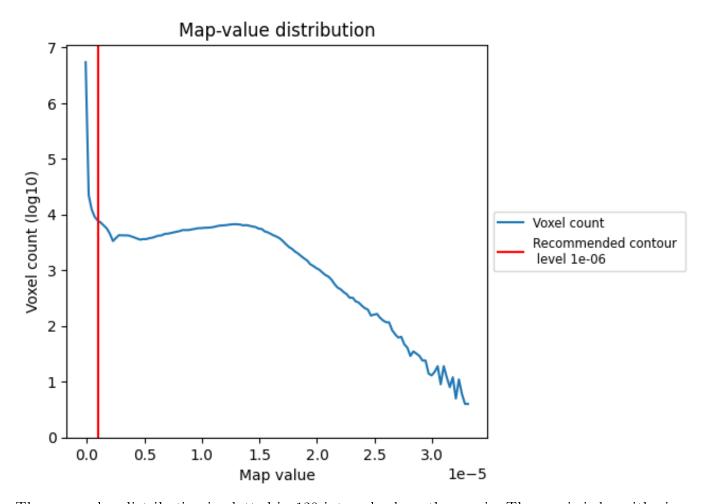
This section was not generated. No masks/segmentation were deposited.



# 3 Map analysis (i)

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

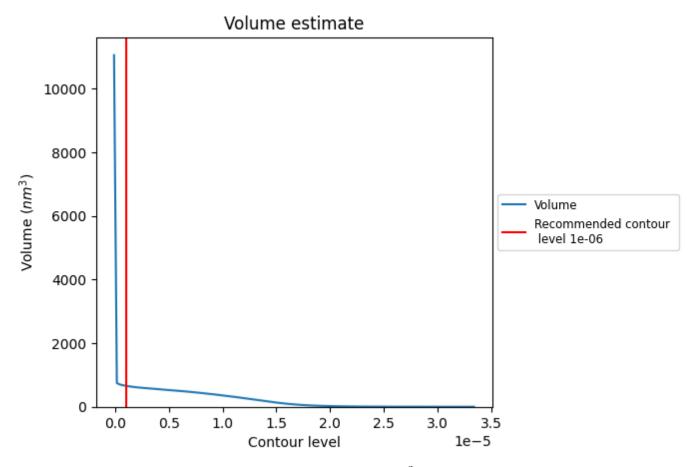
## 3.1 Map-value distribution (i)



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)

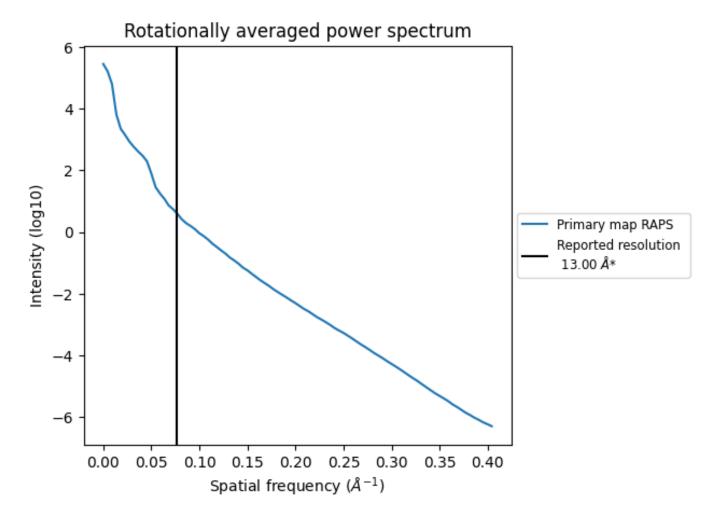


The volume at the recommended contour level is  $659~\mathrm{nm}^3$ ; this corresponds to an approximate mass of  $595~\mathrm{kDa}$ .

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)



<sup>\*</sup>Reported resolution corresponds to spatial frequency of 0.077  ${\rm \AA}^{-1}$ 



# 4 Fourier-Shell correlation (i)

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

