



Preliminary Full wwPDB EM Validation Report ⓘ

Apr 7, 2023 – 05:40 PM EDT

Deposition ID : D_1000271908

This wwPDB validation report is NOT for manuscript review

This is a Preliminary Full wwPDB EM Validation Report.

This report is produced by the wwPDB Deposition System during initial deposition but before 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/EMTomogramValidationReportHelp> with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

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

EMDB validation analysis : 0.0.1.dev50
Validation Pipeline (wwPDB-VP) : 2.32.2

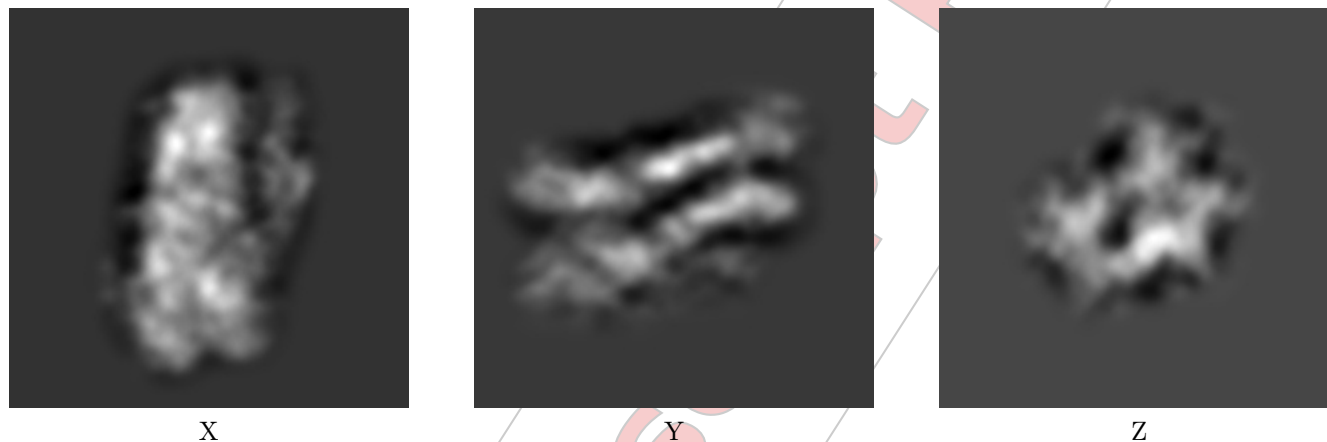
1 Experimental information

| Property | Value | Source |
|--------------------------------------|---|-----------|
| EM reconstruction method | TOMOGRAPHY | Depositor |
| Imposed symmetry | POINT, Not provided | |
| Number of tilted images used | Not provided | |
| Resolution determination method | Not provided | |
| CTF correction method | PHASE FLIPPING AND AMPLITUDE CORRECTION; The Contrast Transfer Function (CTF) was determined by Gctf and then corrected by TOMOCTF. | Depositor |
| Microscope | FEI TITAN KRIOS | Depositor |
| Voltage (kV) | 300 | Depositor |
| Electron dose ($e^-/\text{\AA}^2$) | 2.56 | Depositor |
| Minimum defocus (nm) | 2000 | Depositor |
| Maximum defocus (nm) | 2500 | Depositor |
| Magnification | 53000 | Depositor |
| Image detector | GATAN K3 BIOQUANTUM (6k x 4k) | Depositor |
| Maximum voxel value | 3.765 | Depositor |
| Minimum voxel value | -1.717 | Depositor |
| Average voxel value | 0.032 | Depositor |
| Voxel value standard deviation | 0.281 | Depositor |
| Recommended contour level | Not applicable | |
| Tomogram size (Å) | 240.48, 240.48, 240.48 | wwPDB |
| Tomogram dimensions | 144, 144, 144 | wwPDB |
| Tomogram angles (°) | 90.0, 90.0, 90.0 | wwPDB |
| Grid spacing (Å) | 1.67, 1.67, 1.67 | Depositor |

2 Tomogram visualisation ⓘ

This section contains visualisations of the EMDB entry D_1000271908. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

2.1 Orthogonal projections ⓘ



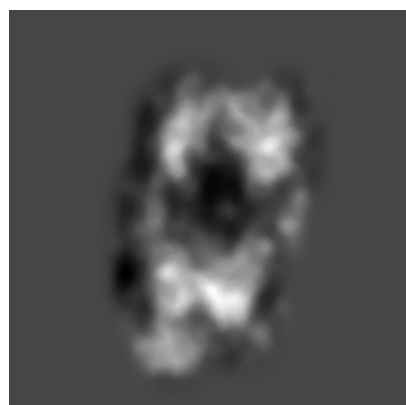
The images above show the tomogram projected in three orthogonal directions.

2.2 Central slices ⓘ



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

2.3 Largest variance slices [i](#)



X Index: 77



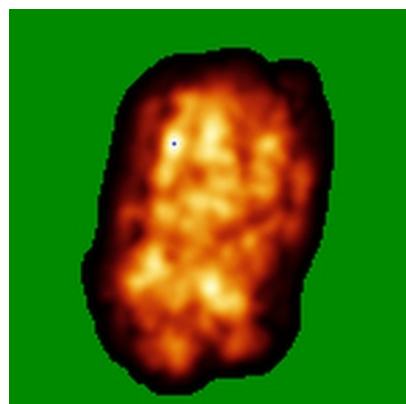
Y Index: 72



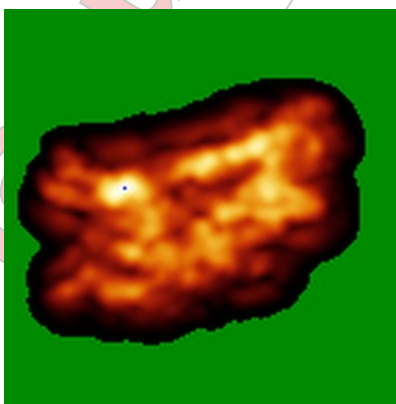
Z Index: 95

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

2.4 Orthogonal standard-deviation projections (False-color) [i](#)



X



Y



Z

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

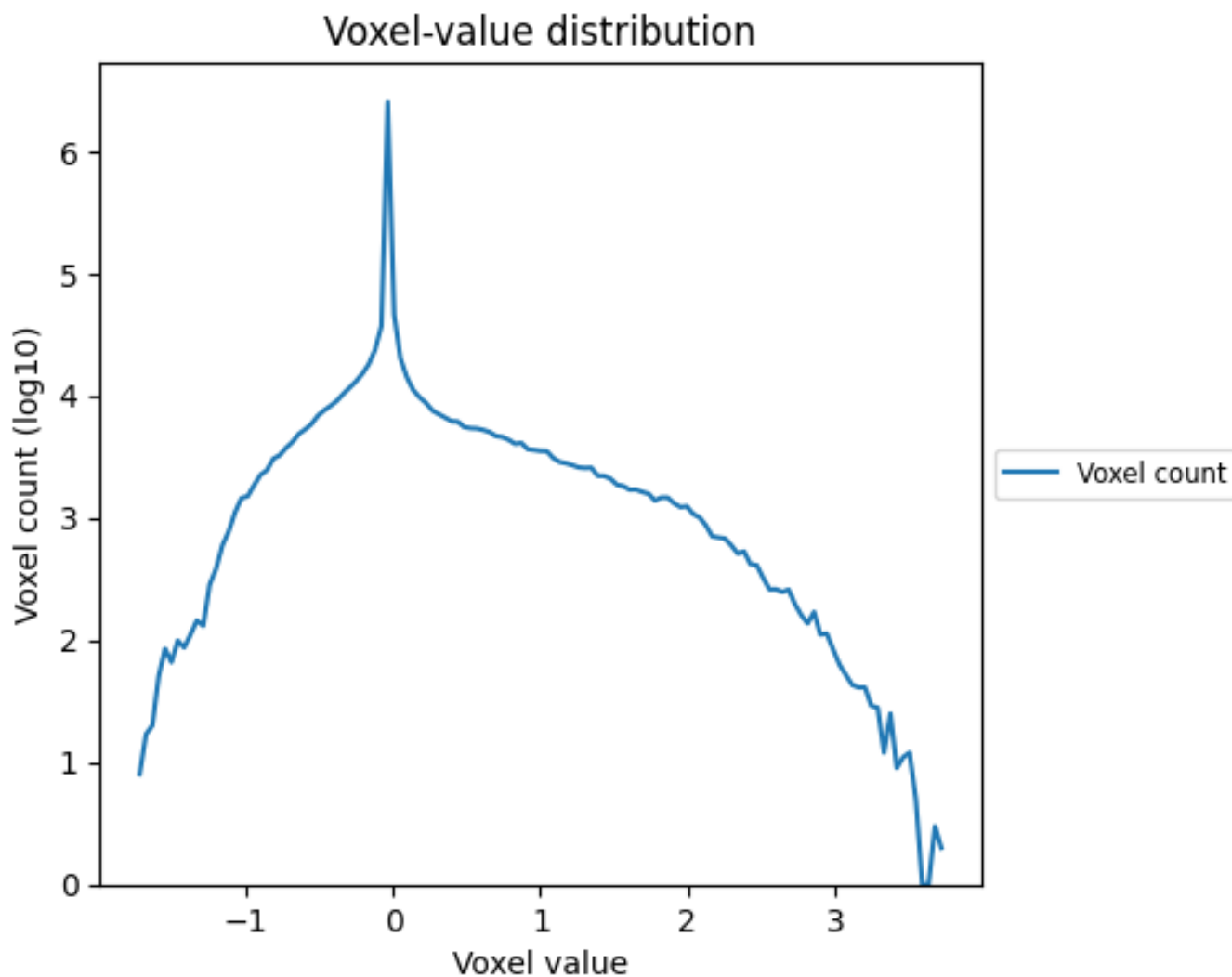
2.5 Mask visualisation [i](#)

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

3 Tomogram analysis [i](#)

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

3.1 Voxel-value distribution [i](#)



The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.