WORLDWIDE wwPDB PROTEIN DATA BANK

wwPDB EM Validation Summary Report (i)

Aug 23, 2023 – 02:07 PM JST

EMDB ID	:	EMD-35396
Title	:	Tomogram of chromatin fibers isolated from Hela S3 cell by negative staining
Authors	:	Ping, Z.; Yan, L.; Haonan, Z.
Deposited on	:	2023-02-16
Resolution	:	Not provided

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/EMTomogramValidationReportHelp
with specific help available everywhere you see the (i) 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 (i)) were used in the production of this report:

EMDB validation analysis	:	0.0.1.dev50
Validation Pipeline (wwPDB-VP)	:	2.35

1   Experimental information ⓘ

Property	Value	Source
EM reconstruction method	TOMOGRAPHY	Depositor
Imposed symmetry	Not Provided	
Number of tilted images used	120	Depositor
Resolution determination method	Not provided	
CTF correction method	Not provided	
Microscope	FEI TECNAI SPIRIT	Depositor
Voltage (kV)	120	Depositor
Electron dose $(e^-/\text{Å}^2)$	4.0	Depositor
Minimum defocus (nm)	2.5	Depositor
Maximum defocus (nm)	4.0	Depositor
Magnification	Not provided	
Image detector	FEI EAGLE (2k x 2k)	Depositor
Maximum voxel value	2350.000	Depositor
Minimum voxel value	-3303.000	Depositor
Average voxel value	-1084.328	Depositor
Voxel value standard deviation	375.511	Depositor
Recommended contour level	Not applicable	
Tomogram size (Å)	11372.641, 8463.36, 528.96	wwPDB
Tomogram dimensions	1376, 1024, 64	wwPDB
Tomogram angles (°)	90.0, 90.0, 90.0	wwPDB
Grid spacing (Å)	8.265, 8.265, 8.265	Depositor

# 2 Tomogram visualisation (i)

This section contains visualisations of the EMDB entry EMD-35396. These allow visual inspection of the internal detail of the tomogram and identification of artifacts.

## 2.1 Orthogonal projections (i)

| X | Y | Z |
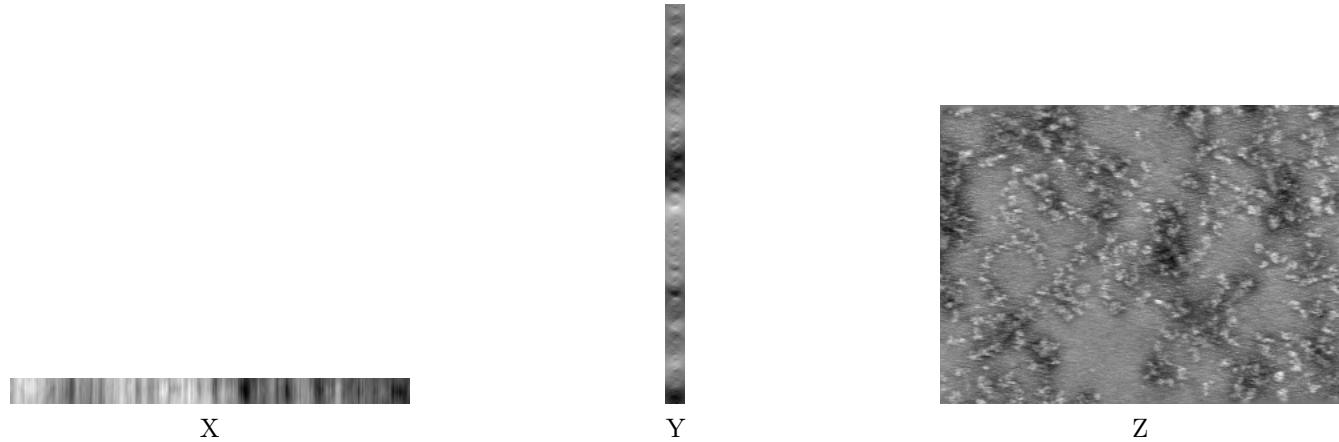
The images above show the tomogram projected in three orthogonal directions.

2.2 Central slices (i)

X Index: 688   Y Index: 512   Z Index: 32
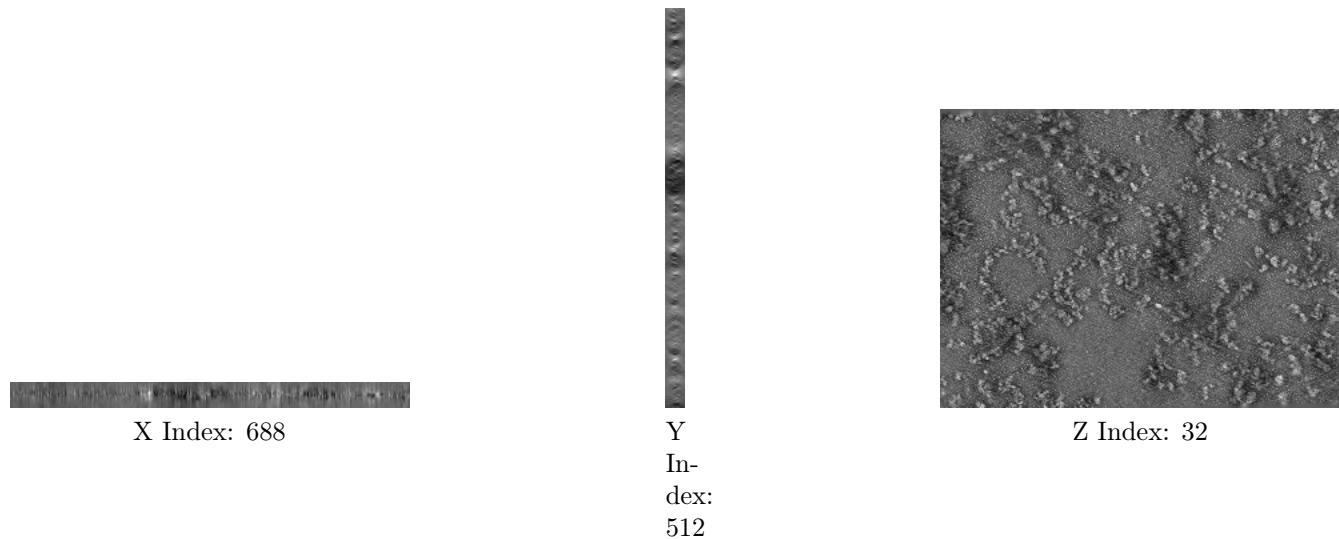
The images above show central slices of the tomogram in three orthogonal directions.

2.3   Largest variance slices ⓘ

X Index: 1291   Y
                                            In-
                                            dex:
                                            657

Z Index: 34
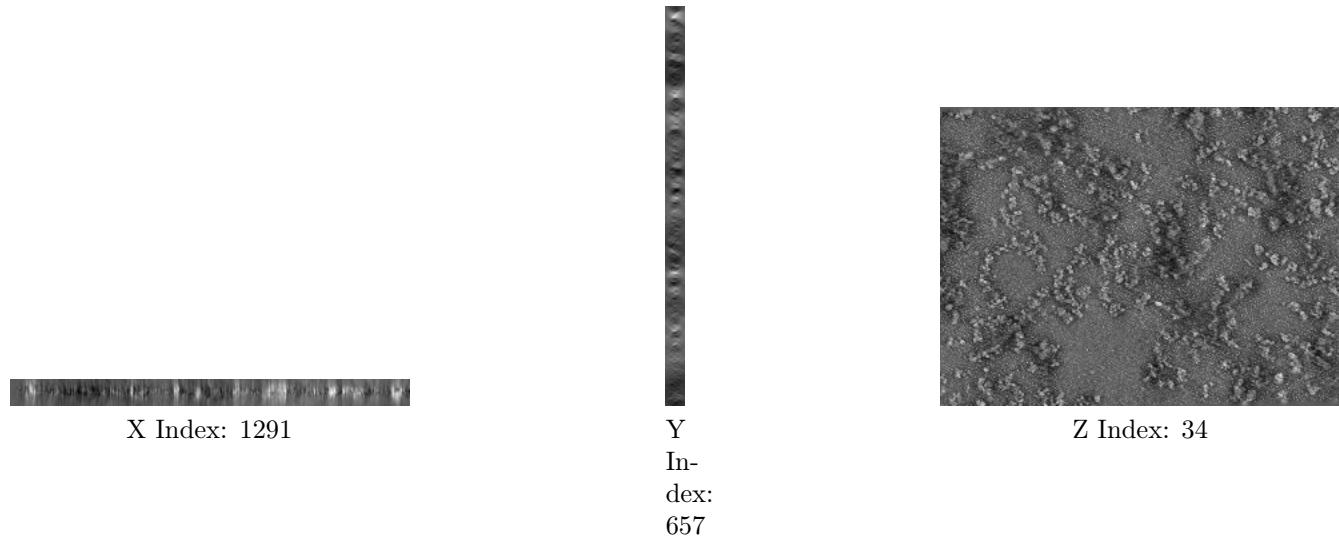
The images above show the largest variance slices of the tomogram in three orthogonal directions.

2.4   Orthogonal standard-deviation projections (False-color) ⓘ

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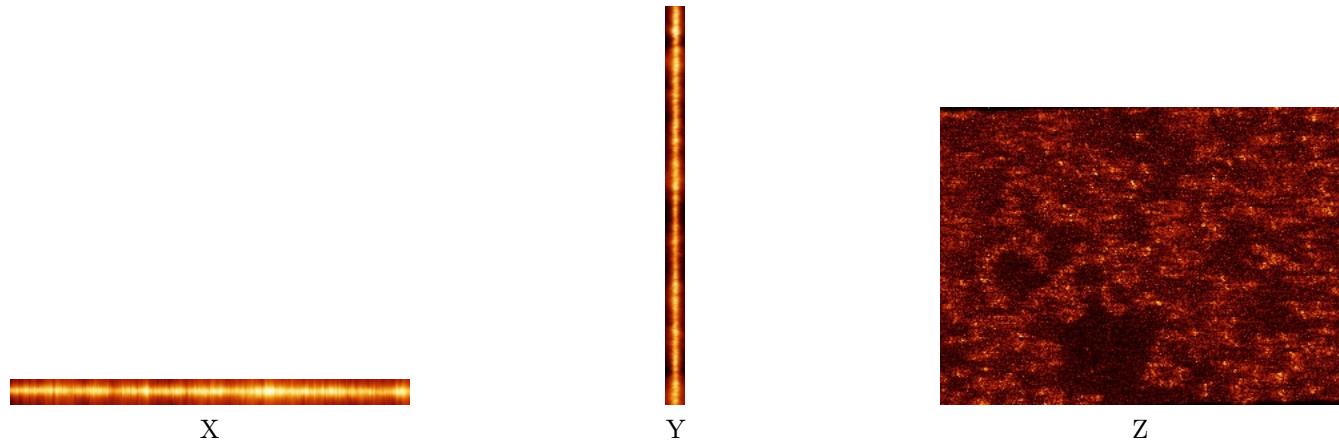
The images above show the tomogram projected in three orthogonal directions.

2.5   Mask visualisation ⓘ

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

3   Tomogram analysis ⓘ

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

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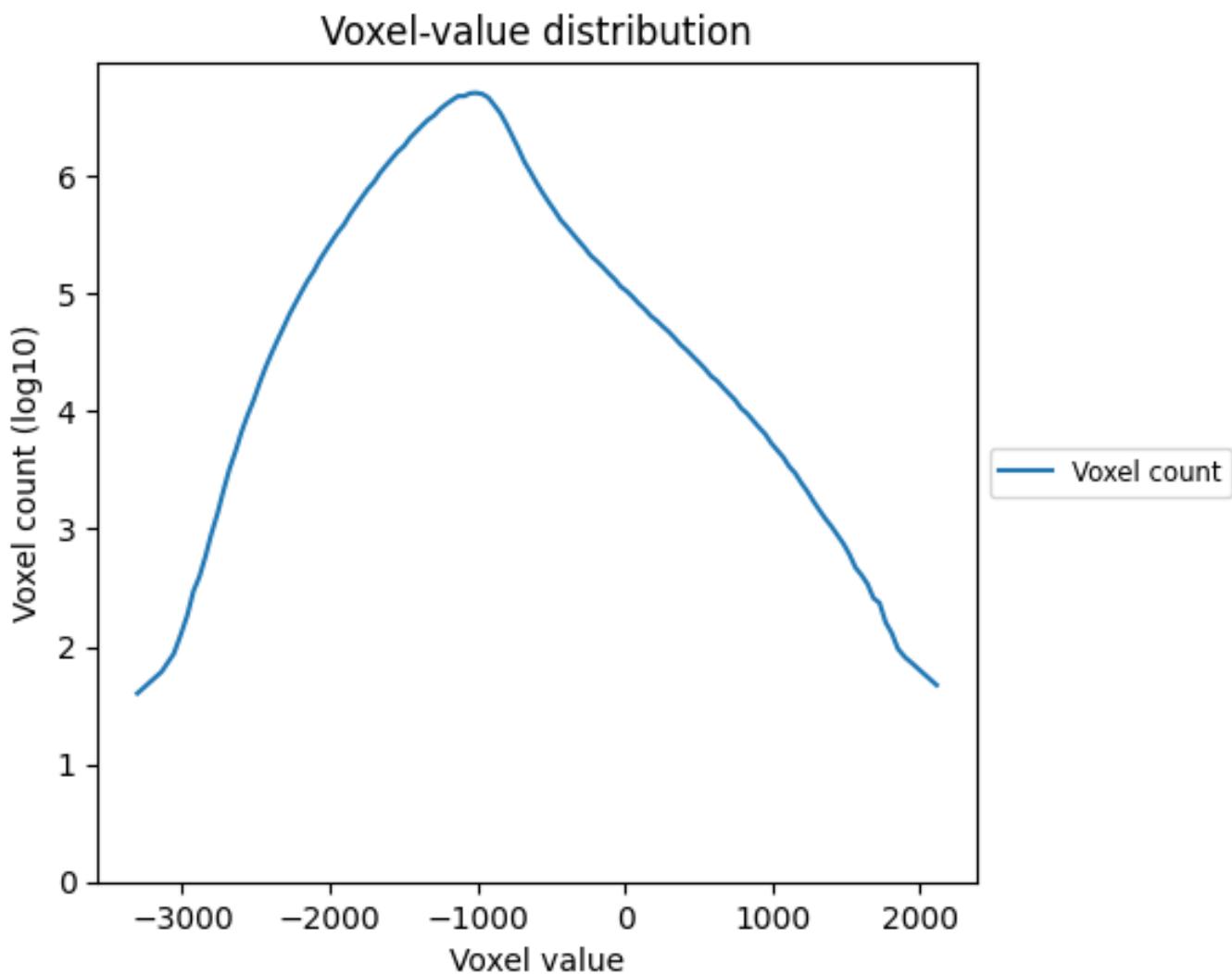
The voxel-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic.