



wwPDB EM Validation Summary Report ⓘ

Feb 8, 2026 – 04:45 PM JST

PDB ID : 9WC0 / pdb_00009wc0
EMDB ID : EMD-65853
Title : The structure of NCP-RA module of ncBAF-nucleosome complex
Authors : Chen, K.J.; Chen, Z.C.
Deposited on : 2025-08-15
Resolution : 2.40 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/EMValidationReportHelp>

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.dev129
MolProbity : 4-5-2 with Phenix2.0
Percentile statistics : 20231227.v01 (using entries in the PDB archive December 27th 2023)
EM percentile statistics : 202505.v01 (Using data in the EMDb archive up until May 2025)
MapQ : 1.9.13
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.47

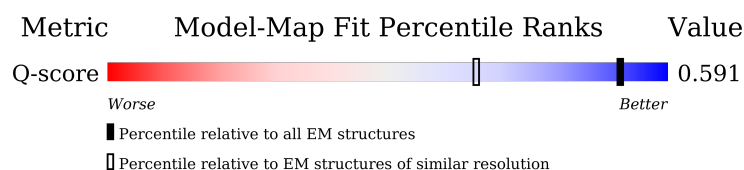
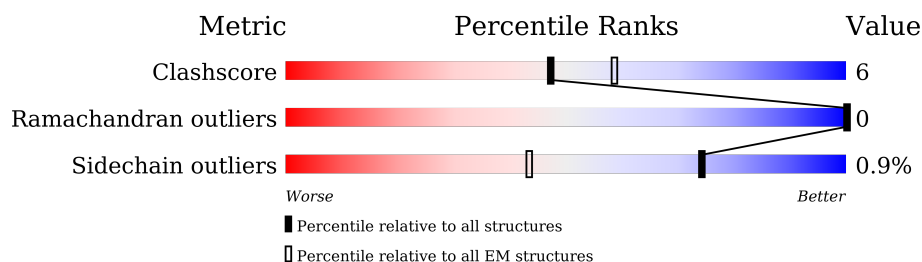
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

ELECTRON MICROSCOPY

The reported resolution of this entry is 2.40 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



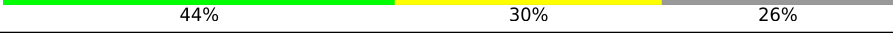
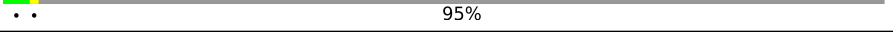
Metric	Whole archive (#Entries)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	210492	15764	-
Ramachandran outliers	207382	16835	-
Sidechain outliers	206894	16415	-
Q-score	-	25397	5628 (1.90 - 2.90)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion $< 40\%$). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	B	102	 9% 75% 11% 5%
1	F	102	 5% 76% 8% 11%
2	C	129	 1% 77% 6% 16%
2	G	129	 1% 71% 12% 16%

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Mol	Chain	Length	Quality of chain
3	D	125	 70%26%
3	H	125	 68%6%26%
4	E	135	 66%30%
4	K	135	 60%13%27%
5	I	207	 5%43%32%26%
6	J	207	 5%44%30%26%
7	O	210	 95%

2 Entry composition [i](#)

There are 7 unique types of molecules in this entry. The entry contains 12431 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called Histone H4.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	B	87	Total	C	N	O	S	0	0
			703	443	142	117	1		
1	F	86	Total	C	N	O	S	0	0
			672	424	130	117	1		

- Molecule 2 is a protein called Histone H2A.

Mol	Chain	Residues	Atoms				AltConf	Trace
2	C	107	Total	C	N	O	0	0
			811	510	158	143		
2	G	108	Total	C	N	O	0	0
			828	522	162	144		

- Molecule 3 is a protein called Histone H2B 1.1.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	D	93	Total	C	N	O	S	0	0
			717	450	128	137	2		
3	H	93	Total	C	N	O	S	0	0
			725	456	130	137	2		

- Molecule 4 is a protein called Histone H3.2.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	E	95	Total	C	N	O	S	0	0
			779	492	148	136	3		
4	K	98	Total	C	N	O	S	0	0
			801	506	153	139	3		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
E	102	ALA	GLY	conflict	UNP P84233

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Chain	Residue	Modelled	Actual	Comment	Reference
K	102	ALA	GLY	conflict	UNP P84233

- Molecule 5 is a DNA chain called DNA (207-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
5	I	154	Total	C	N	O	P	0	0
			3139	1489	572	924	154		

- Molecule 6 is a DNA chain called DNA (207-MER).

Mol	Chain	Residues	Atoms					AltConf	Trace
6	J	154	Total	C	N	O	P	0	0
			3175	1501	596	924	154		

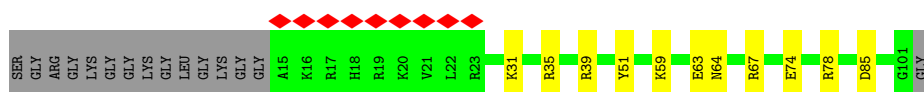
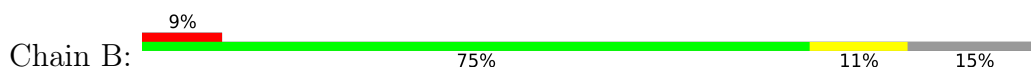
- Molecule 7 is a protein called B-cell CLL/lymphoma 7 protein family member A.

Mol	Chain	Residues	Atoms				AltConf	Trace
7	O	10	Total	C	N	O	0	0
			81	47	20	14		

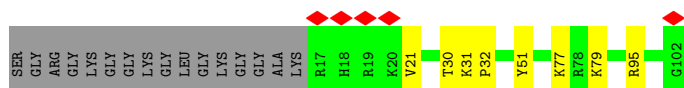
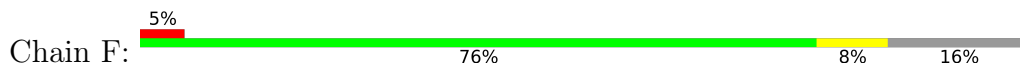
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

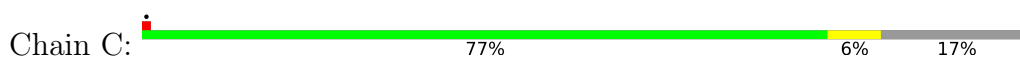
- Molecule 1: Histone H4



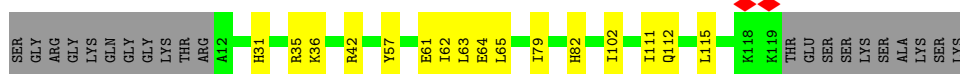
- Molecule 1: Histone H4



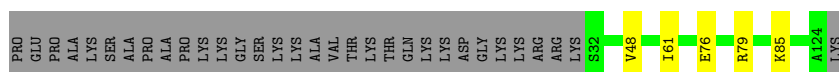
- Molecule 2: Histone H2A



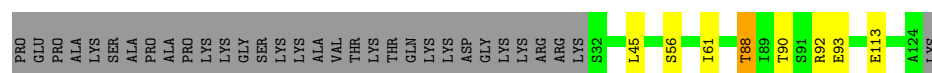
- Molecule 2: Histone H2A



- Molecule 3: Histone H2B 1.1

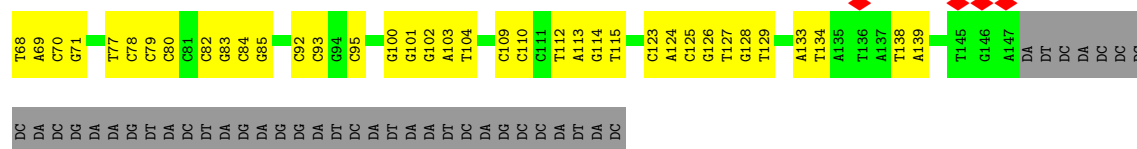


- Molecule 3: Histone H2B 1.1

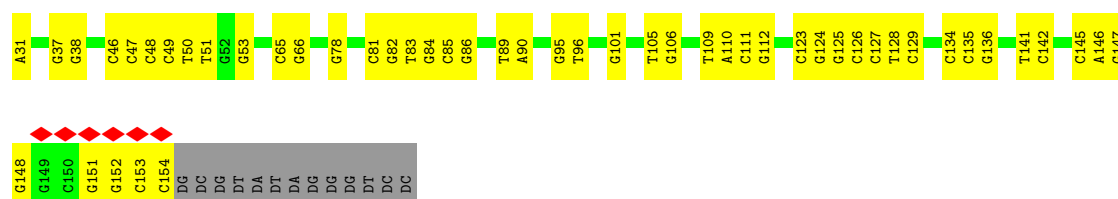


ALA	ARG	THR	LYS	GLN	THR	ARG	ALA	LYS	SER	THR	GLY	GLY	LYS	ALA	PRO	ARG	LYS	GLN	LEU	ALA	THR	LYS	ALA	ALA	ARG	LYS	SER	ALA	PRO	PRO	THR	GLY	GLY	VAL	LYS	LYS	PRO	HIS	R40	R49	Q76	D106	L126	I130	R131	R134	ALA
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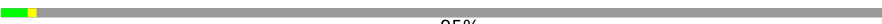
ALA	ARG	THR	GLN	THR	ALA	ARG	LYS	SER	THR	GLY	LYS	ALA	PRO	ARG	LYS	GLN	LEU	ALA	THR	LYS	ALA	ALA	ARG	LYS	SER	ALA	PRO	ALA	THR	GLY	GLY	VAL	LYS	R37	R42	T45	E50	I51	R52	R53	Y54	L60	K64	Q68	R72	K79	V89
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[illegible]

DG	DT	DA	DT	DG	DG	DC	DG	DG	DA	DT	DT	DA	DT	DT	DT	DT	DT	DT	DT	DT	DT	DT	DT	DT	T1	C2	A3	G4	G5	A6		T9		T15	C16		C20	A21		C26	C27	T28		C29
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● Molecule 7: B-cell CLL/lymphoma 7 protein family member A

Chain O:  95%

MET	ASN	ALA	THR
SER	LYS	VAL	SER
GLY	LYS	PRO	ALA
ARG	LYS	ILE	ILE
SER	GLY	SER	SER
	LYS	GLN	GLN
V6	ASP	THR	ASP
	GLU	GLU	LEU
E9	LYS	ALA	GLY
T10	CYS	LYS	GLY
R11	GLY	VAL	VAL
S12	SER	ASP	PRO
R13	GLU	GLU	PRO
A14	VAL	ALA	SER
K15	THR	GLN	LYS
ASP	THR	ALA	LYS
	ASP	GLN	MET
ILE	PRO	ASP	LYS
LYS	GLY	LYS	LEU
ARG	ASN	GLY	GLU
VAL	SER	HIS	ALA
	SER	PRO	SER
ALA	SER	GLY	GLN
ALA	PRO	ALA	GLN
ILE	GLY	GLU	ASN
GLU	MET	ASP	SER
LYS	MET	ALA	GLU
VAL	ASP	SER	GLU
ARG	MET	ASP	GLY
LYS	HIS	ASP	ASP
TRP	ASP	GLU	GLN
GLU	ASP	GLN	ASN
LYS	ASN	SER	SER
TRP	ASN	GLN	SER
VAL	ASN	SER	MET
THR	SER	MET	GLU
VAL	SER	HIS	LYS
GLY	ILE	SER	SER
ASP	ALA	MET	ASN
THR	ALA	SER	SER
SER	SER	ASN	GLU
LEU	PRO	SER	LYS
ARG	ILE	SER	VAL
	LYS	GLN	ASP
TYR	LYS	VAL	ARG
LYS	GLN	VAL	GLN
TRP	TRP	ASP	PRO
VAL	VAL	SER	GLY
PRO	VAL	ASN	ASP
	THR	SER	SER
GLU	ASN	SER	GLY
PRO	SER	PRO	ASP
LYS	PRO	ALA	SER
VAL	VAL	PRO	GLY
ASP	ASP	LEU	ALA
LYS	ASN	ALA	ALA
ASN	LYS	GLU	GLU
LYS			

4 Experimental information

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	635115	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	NONE	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/\text{\AA}^2$)	50.0	Depositor
Minimum defocus (nm)	1400	Depositor
Maximum defocus (nm)	1800	Depositor
Magnification	Not provided	
Image detector	GATAN K3 (6k x 4k)	Depositor
Maximum map value	0.160	Depositor
Minimum map value	-0.044	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.017	Depositor
Map size ($\text{\AA}$)	216.5, 216.5, 216.5	wwPDB
Map dimensions	400, 400, 400	wwPDB
Map angles ($^\circ$)	90.0, 90.0, 90.0	wwPDB
Pixel spacing ($\text{\AA}$)	0.54125, 0.54125, 0.54125	Depositor

5 Model quality [i](#)

5.1 Standard geometry [i](#)

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	B	0.17	0/711	0.33	0/950
1	F	0.17	0/680	0.33	0/912
2	C	0.14	0/821	0.27	0/1112
2	G	0.15	0/838	0.31	0/1131
3	D	0.13	0/728	0.31	0/983
3	H	0.14	0/736	0.29	0/991
4	E	0.15	0/789	0.29	0/1059
4	K	0.16	0/813	0.29	0/1093
5	I	0.23	0/3517	0.43	0/5421
6	J	0.24	0/3565	0.41	0/5505
7	O	0.11	0/80	0.36	0/104
All	All	0.20	0/13278	0.37	0/19261

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	B	703	0	757	6	0
1	F	672	0	698	6	0
2	C	811	0	849	6	0
2	G	828	0	884	12	0
3	D	717	0	723	3	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
3	H	725	0	745	8	0
4	E	779	0	815	4	0
4	K	801	0	831	11	0
5	I	3139	0	1727	52	0
6	J	3175	0	1727	50	0
7	O	81	0	88	2	0
All	All	12431	0	9844	130	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 6.

The worst 5 of 130 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:I:14:DG:N2	6:J:134:DC:O2	2.02	0.93
5:I:53:DC:N3	6:J:95:DG:N1	2.18	0.92
5:I:70:DC:N3	6:J:78:DG:N1	2.23	0.87
5:I:95:DC:N3	6:J:53:DG:N1	2.22	0.86
5:I:95:DC:O2	6:J:53:DG:N2	2.08	0.85

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	B	85/102 (83%)	81 (95%)	4 (5%)	0	100	100
1	F	84/102 (82%)	83 (99%)	1 (1%)	0	100	100
2	C	105/129 (81%)	104 (99%)	1 (1%)	0	100	100
2	G	106/129 (82%)	105 (99%)	1 (1%)	0	100	100
3	D	91/125 (73%)	90 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	H	91/125 (73%)	90 (99%)	1 (1%)	0	100	100
4	E	93/135 (69%)	93 (100%)	0	0	100	100
4	K	96/135 (71%)	95 (99%)	1 (1%)	0	100	100
7	O	8/210 (4%)	8 (100%)	0	0	100	100
All	All	759/1192 (64%)	749 (99%)	10 (1%)	0	100	100

There are no Ramachandran outliers to report.

5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	B	72/78 (92%)	72 (100%)	0	100	100
1	F	67/78 (86%)	66 (98%)	1 (2%)	60	77
2	C	81/101 (80%)	81 (100%)	0	100	100
2	G	84/101 (83%)	83 (99%)	1 (1%)	67	82
3	D	77/105 (73%)	76 (99%)	1 (1%)	65	81
3	H	79/105 (75%)	77 (98%)	2 (2%)	42	63
4	E	82/110 (74%)	82 (100%)	0	100	100
4	K	84/110 (76%)	83 (99%)	1 (1%)	67	82
7	O	8/182 (4%)	8 (100%)	0	100	100
All	All	634/970 (65%)	628 (99%)	6 (1%)	74	88

5 of 6 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	H	56	SER
3	H	88	THR
4	K	94	GLU
1	F	95	ARG
3	D	85	LYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 12 such sidechains are listed below:

Mol	Chain	Res	Type
2	G	24	GLN
2	G	84	GLN
4	K	85	GLN
2	G	104	GLN
3	D	67	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

There are no ligands in this entry.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

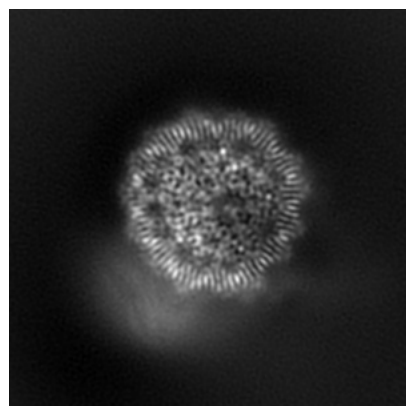
6 Map visualisation [i](#)

This section contains visualisations of the EMDB entry EMD-65853. These allow visual inspection of the internal detail of the map and identification of artifacts.

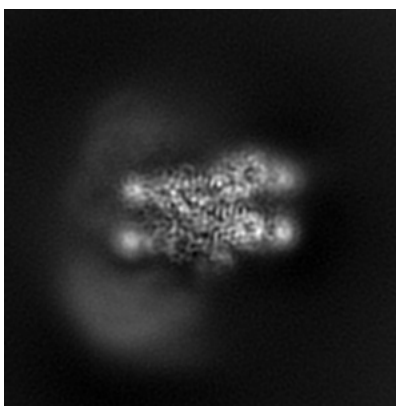
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections [i](#)

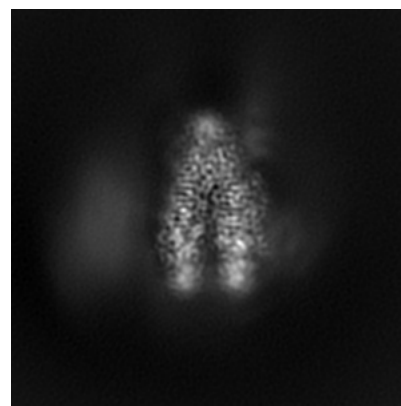
6.1.1 Primary map



X

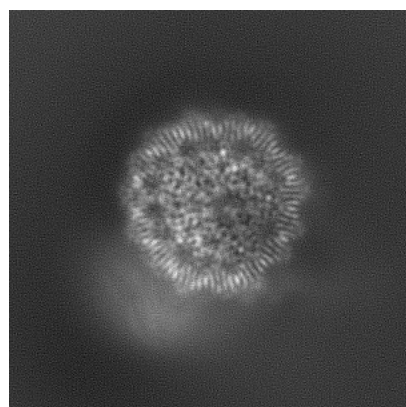


Y

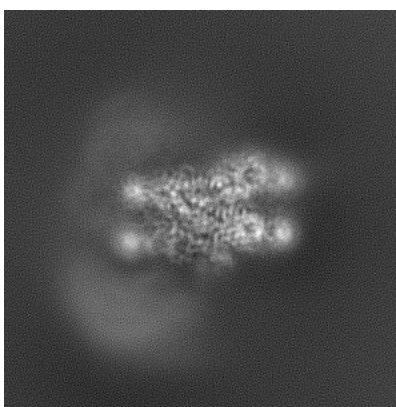


Z

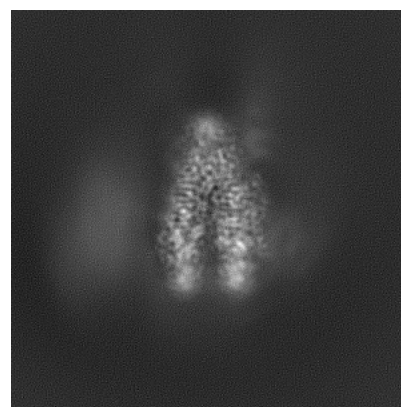
6.1.2 Raw map



X



Y

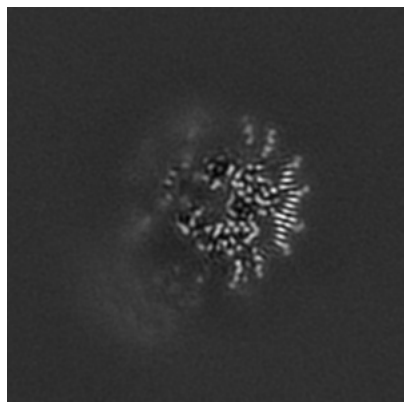


Z

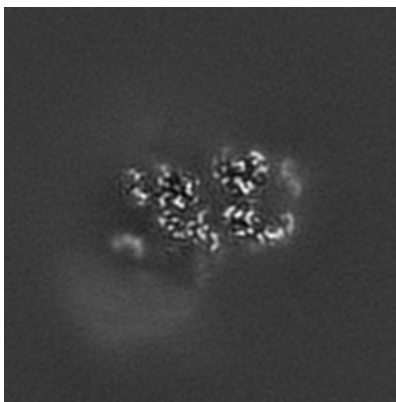
The images above show the map projected in three orthogonal directions.

6.2 Central slices [i](#)

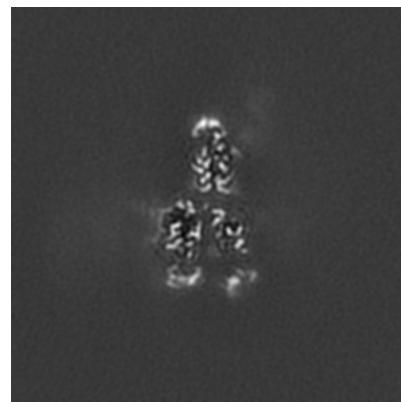
6.2.1 Primary map



X Index: 200

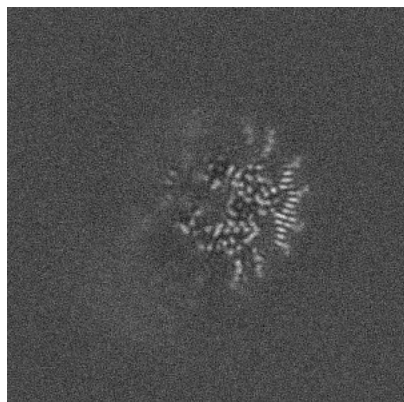


Y Index: 200

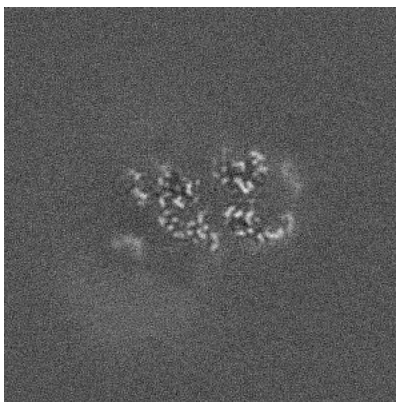


Z Index: 200

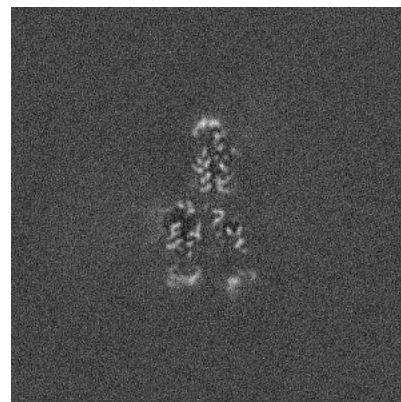
6.2.2 Raw map



X Index: 200



Y Index: 200

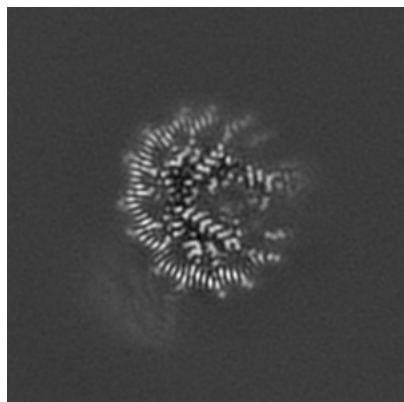


Z Index: 200

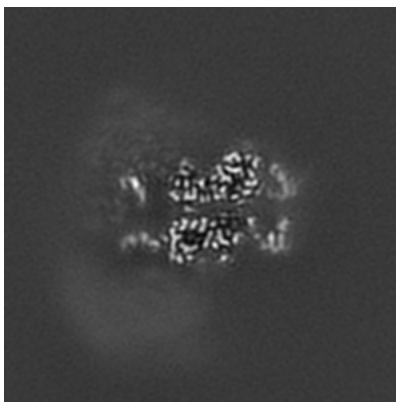
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices [i](#)

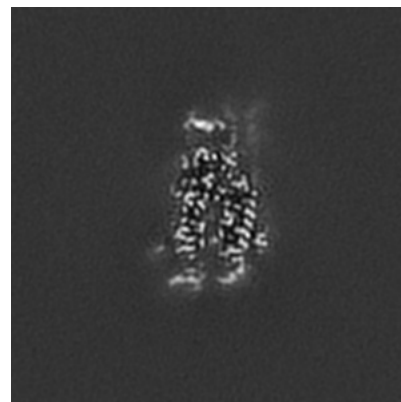
6.3.1 Primary map



X Index: 222

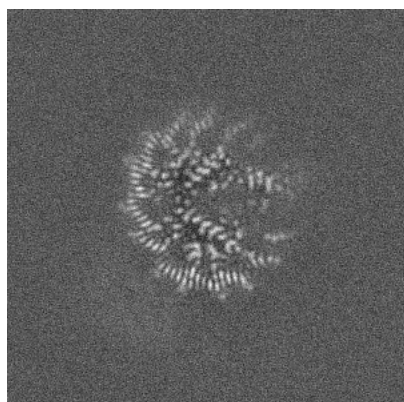


Y Index: 171

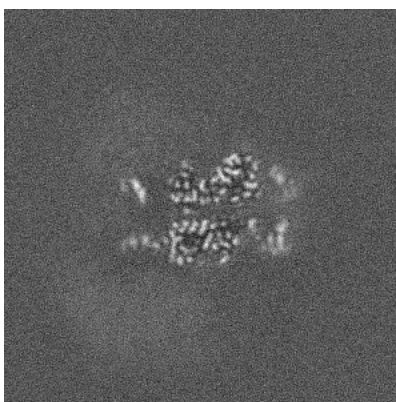


Z Index: 232

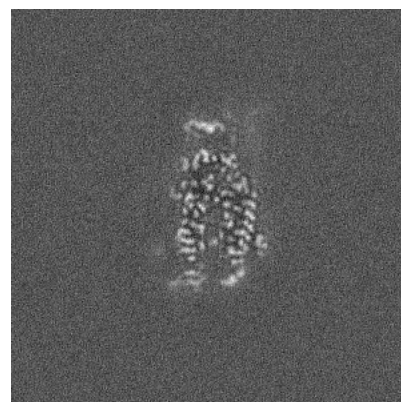
6.3.2 Raw map



X Index: 221



Y Index: 172

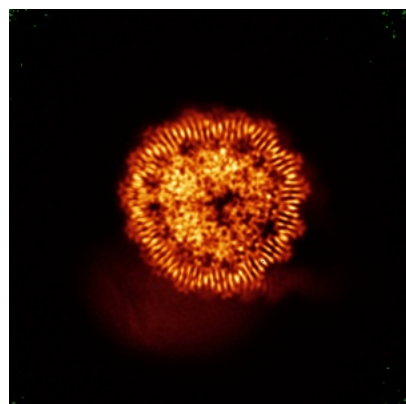


Z Index: 233

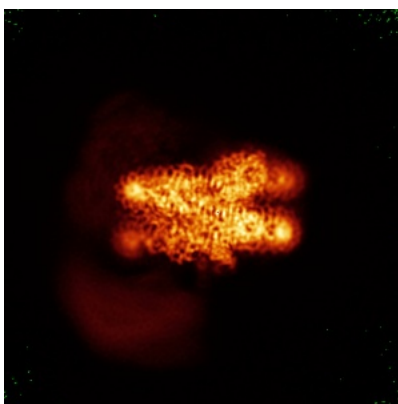
The images above show the largest variance slices of the map in three orthogonal directions.

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

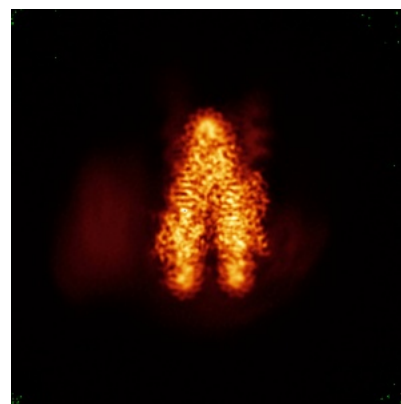
6.4.1 Primary map



X

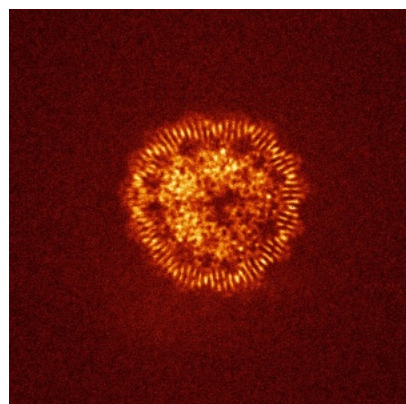


Y

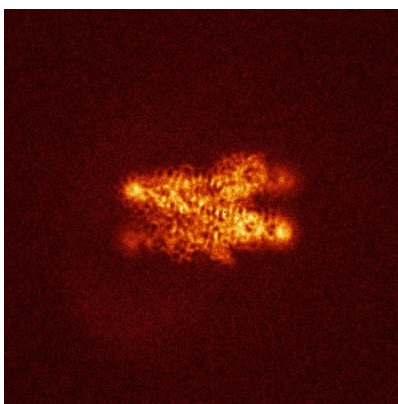


Z

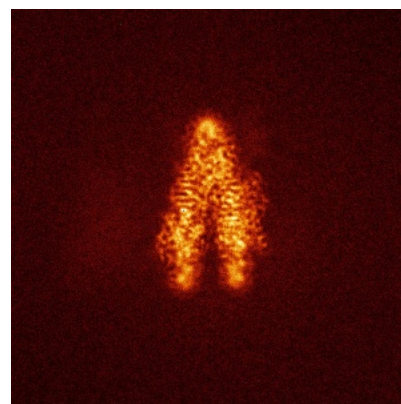
6.4.2 Raw map



X



Y

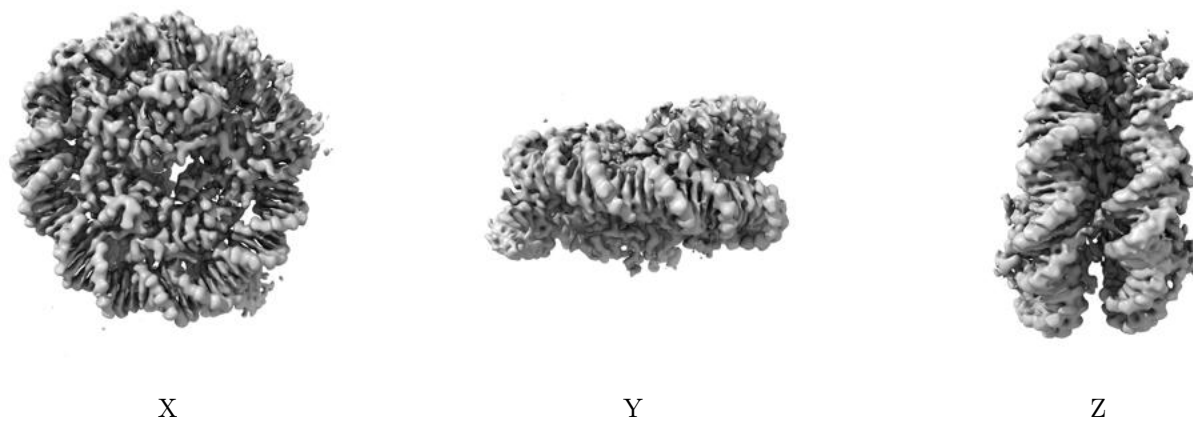


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

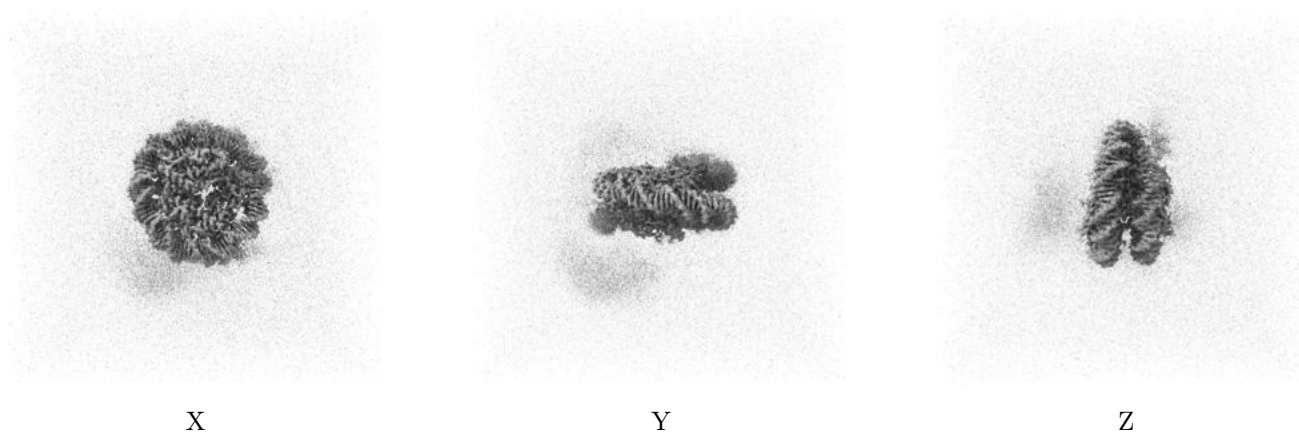
6.5 Orthogonal surface views [i](#)

6.5.1 Primary map



The images above show the 3D surface view of the map at the recommended contour level 0.017. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

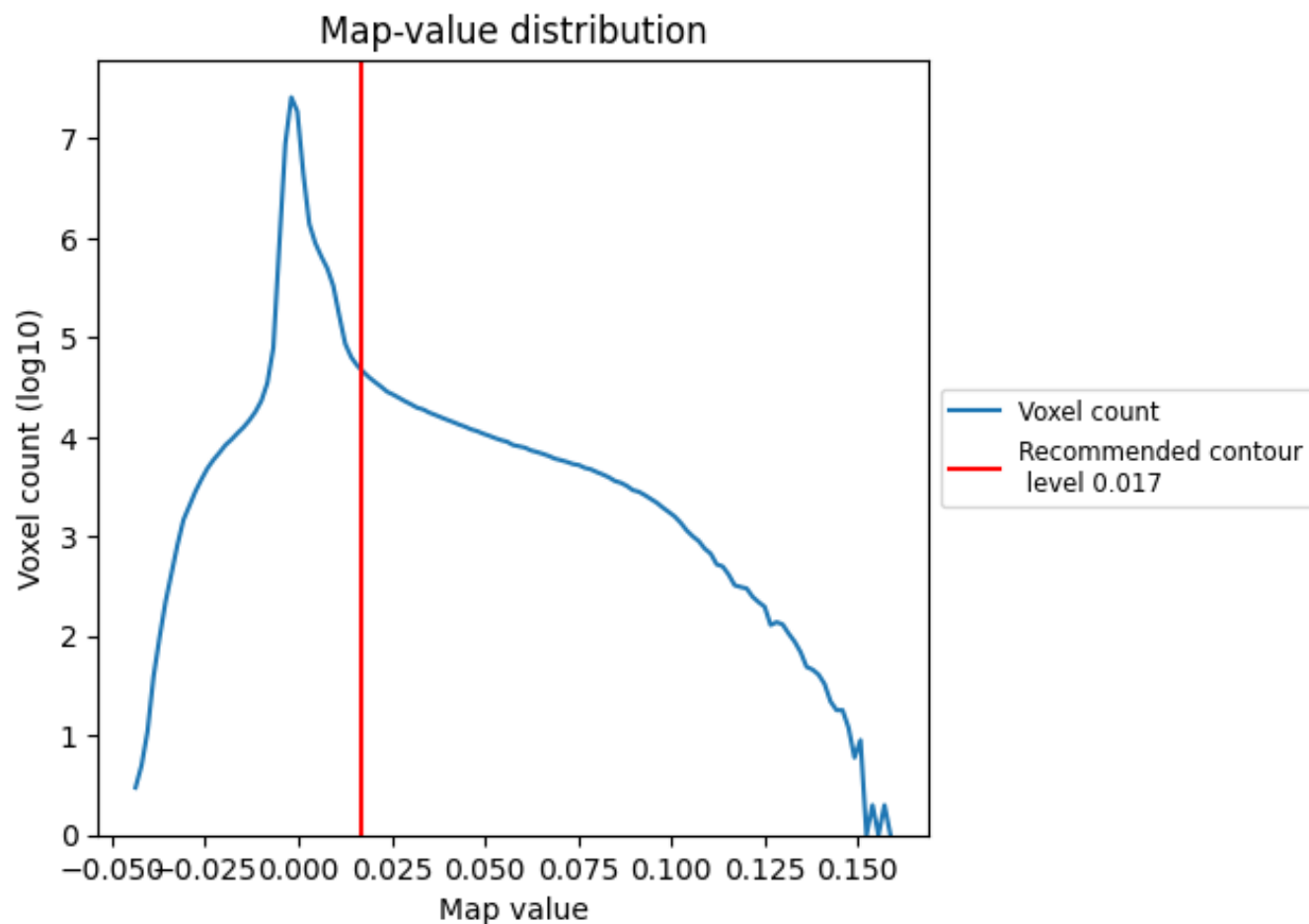
6.6 Mask visualisation [i](#)

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

7 Map analysis [i](#)

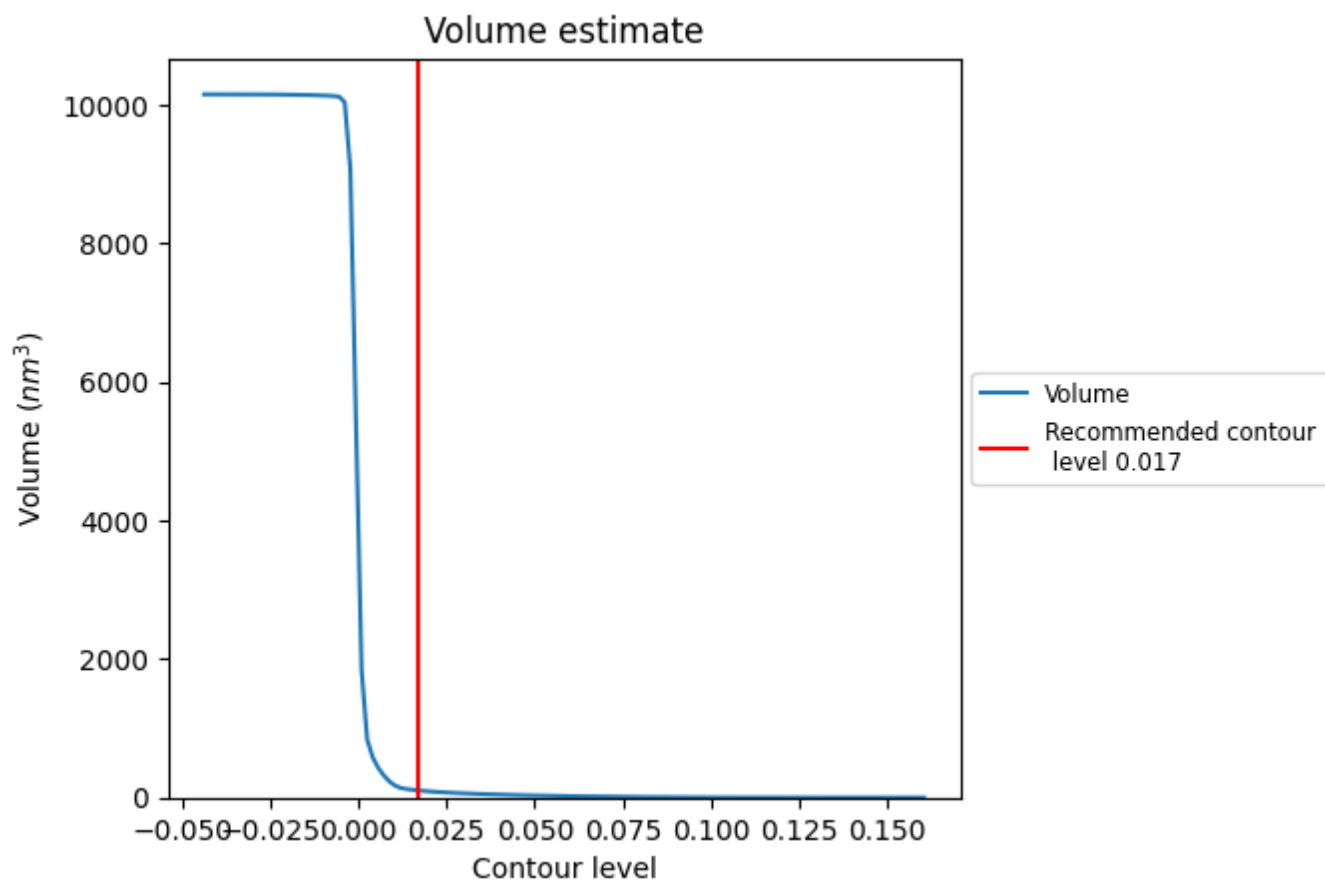
This section contains the results of statistical analysis of the map.

7.1 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.

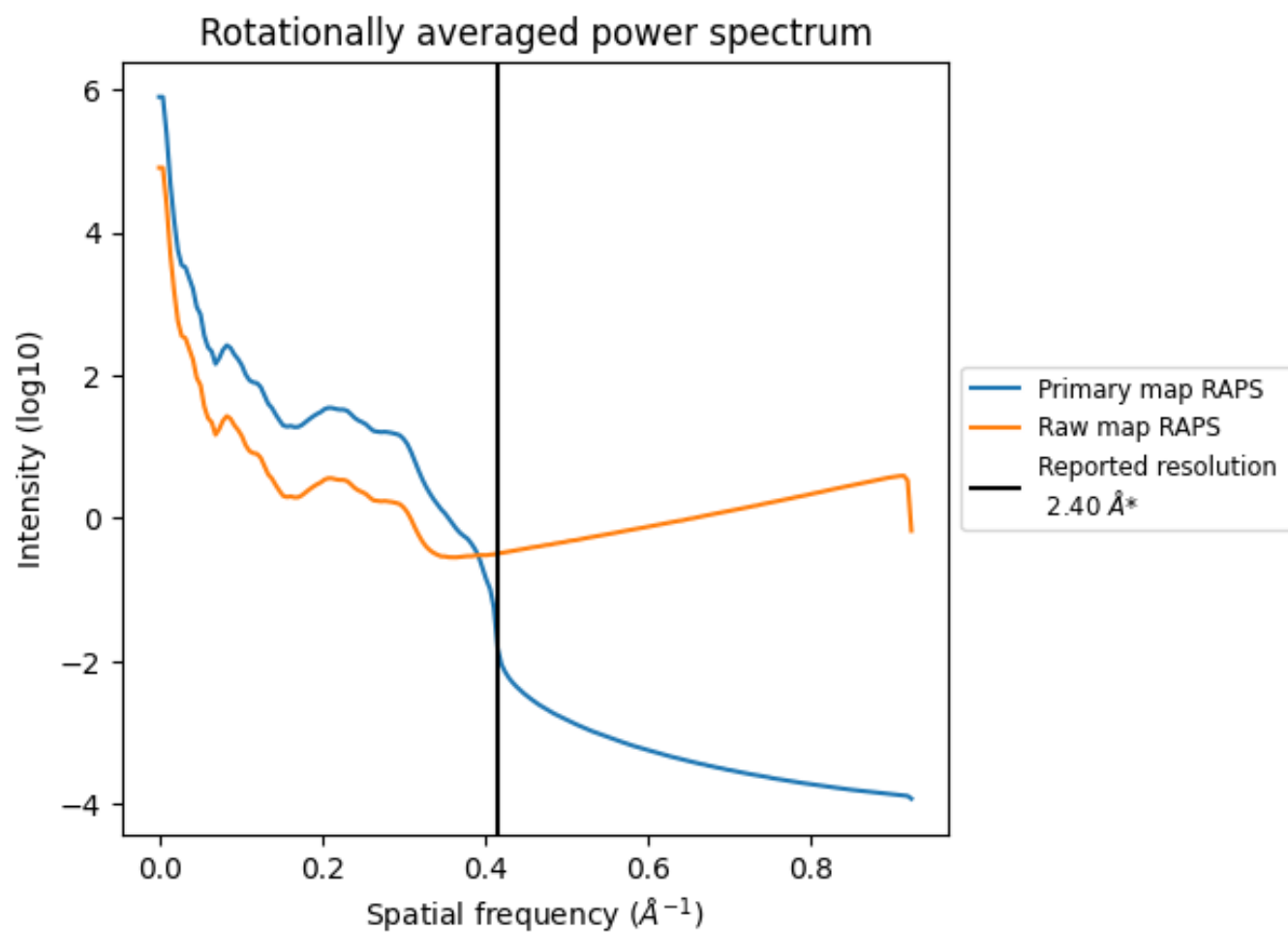
7.2 Volume estimate [i](#)



The volume at the recommended contour level is 102 nm^3 ; this corresponds to an approximate mass of 92 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.

7.3 Rotationally averaged power spectrum ⓘ

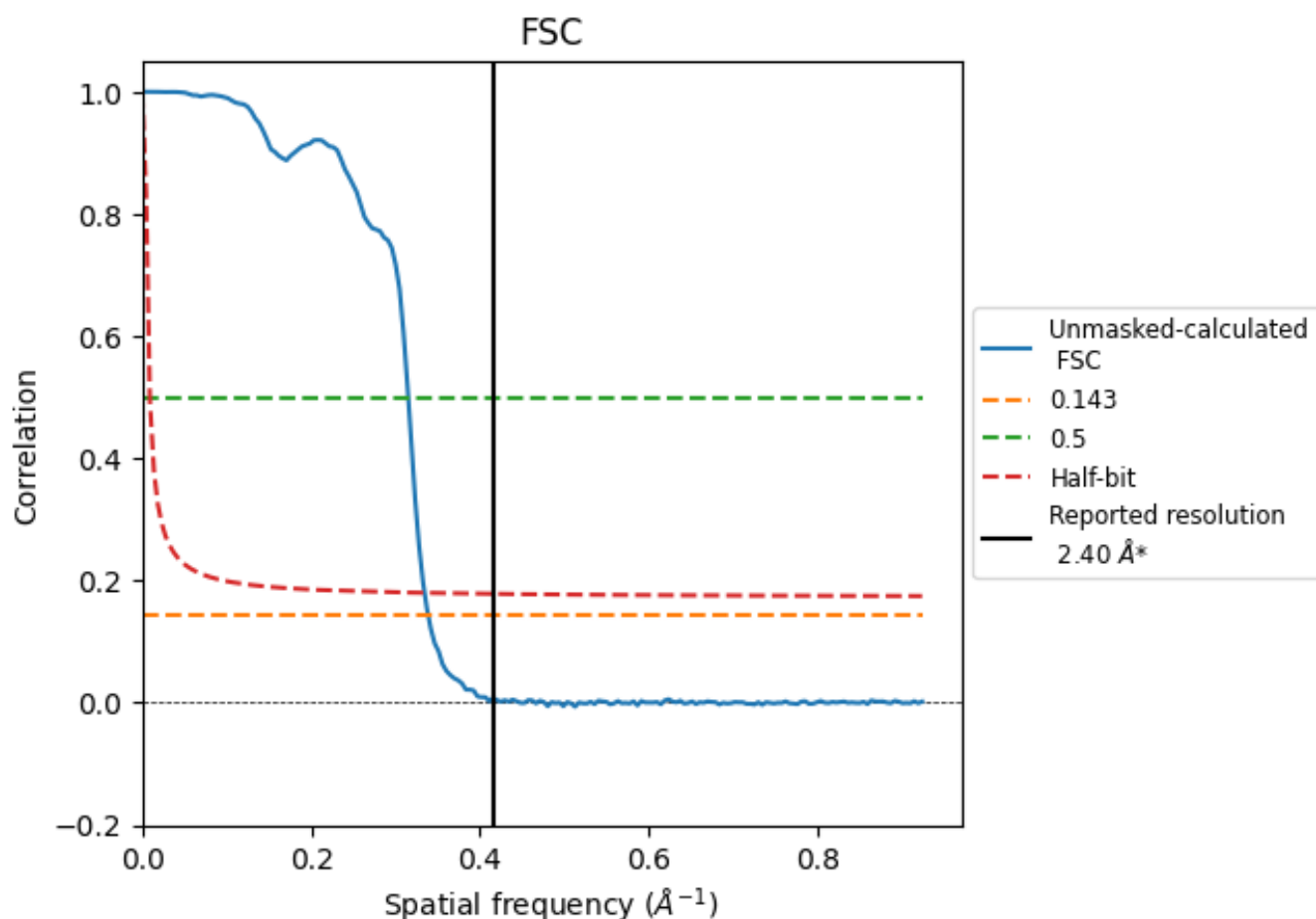


*Reported resolution corresponds to spatial frequency of $0.417 \text{ \AA}^{-1}$

8 Fourier-Shell correlation [i](#)

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC [i](#)



*Reported resolution corresponds to spatial frequency of 0.417 Å⁻¹

8.2 Resolution estimates [i](#)

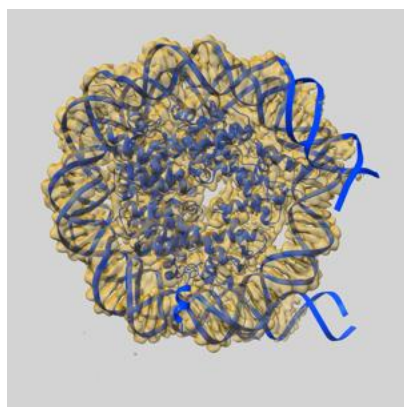
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.40	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	2.95	3.17	2.99

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 2.95 differs from the reported value 2.4 by more than 10 %

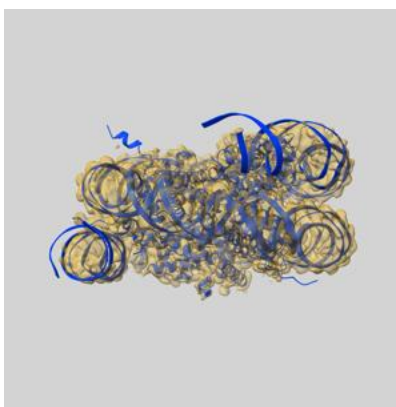
9 Map-model fit [i](#)

This section contains information regarding the fit between EMDB map EMD-65853 and PDB model 9WC0. Per-residue inclusion information can be found in [section 3](#) on [page 6](#).

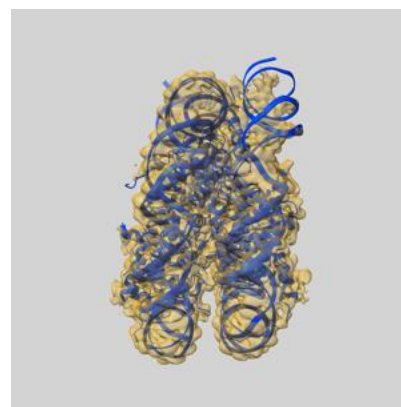
9.1 Map-model overlay [i](#)



X



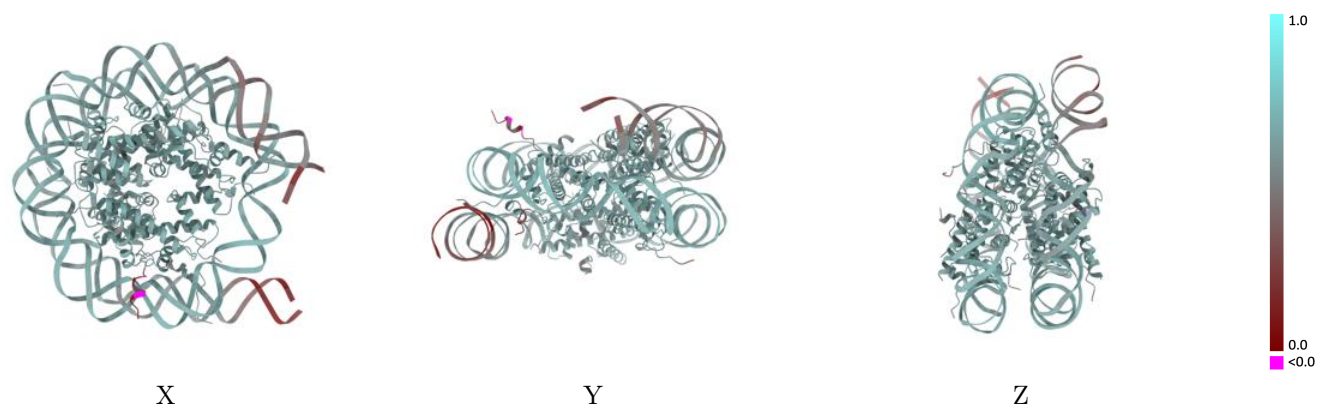
Y



Z

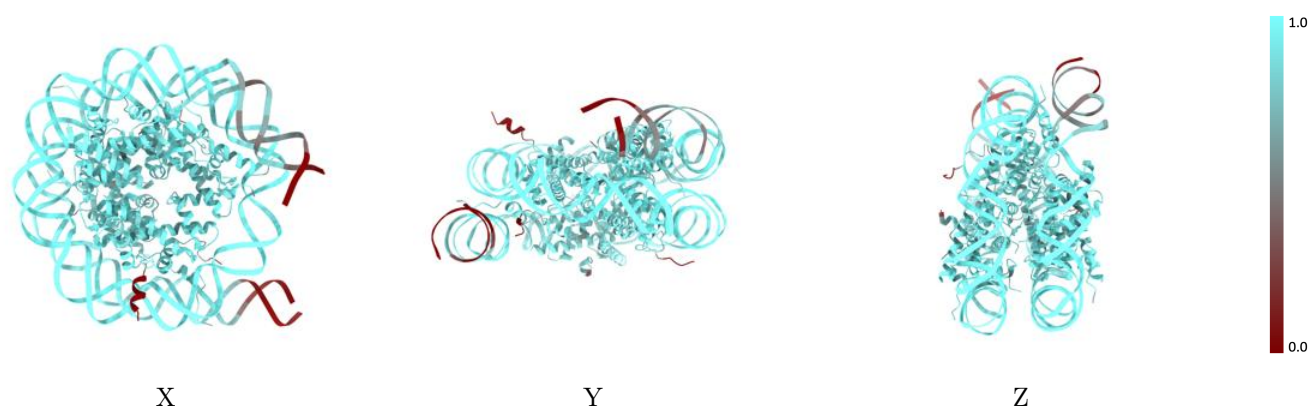
The images above show the 3D surface view of the map at the recommended contour level 0.017 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model [i](#)



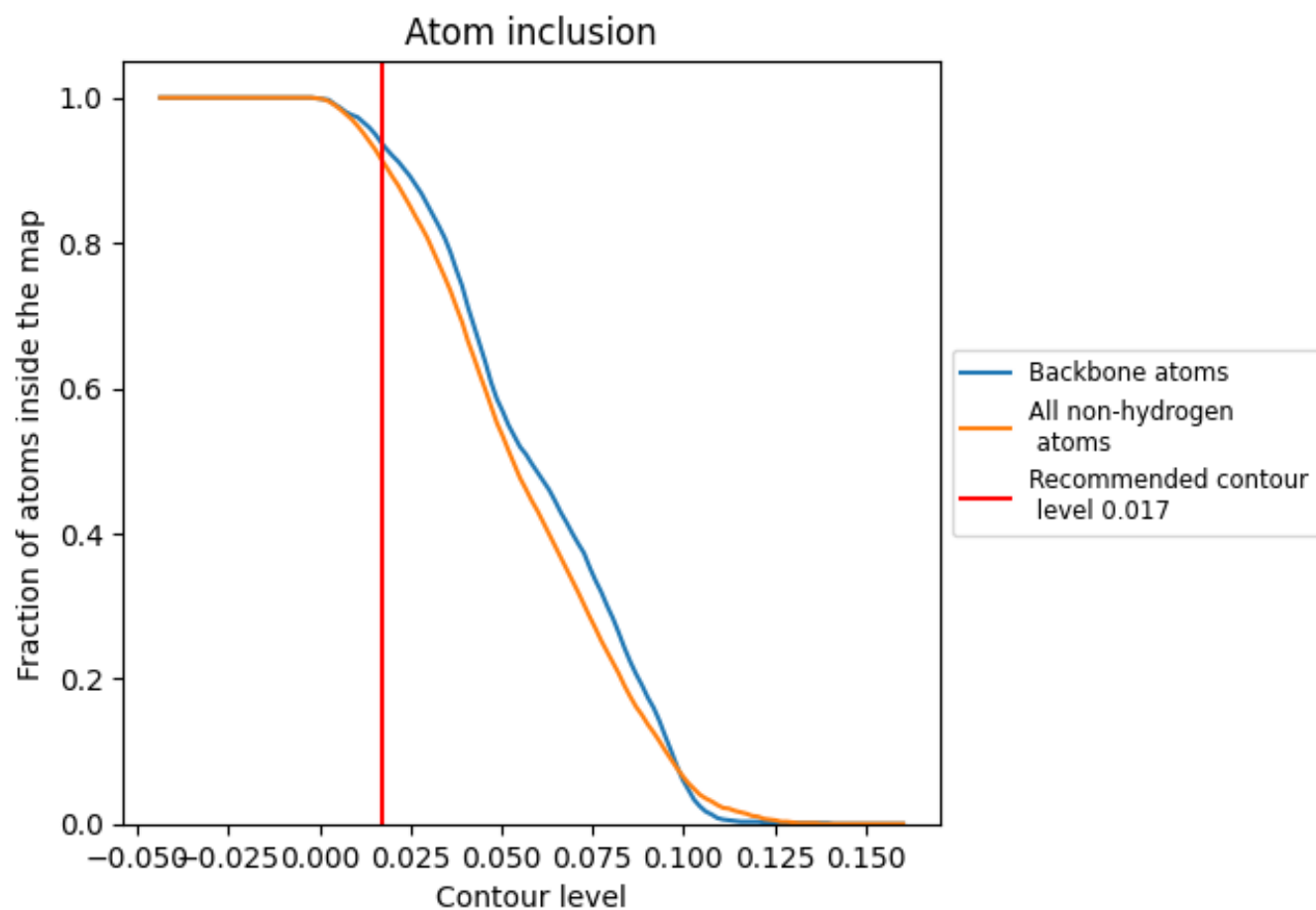
The images above show the model with each residue coloured according to its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model [i](#)



The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.017).

9.4 Atom inclusion ⓘ



At the recommended contour level, 94% of all backbone atoms, 92% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary ⓘ

The table lists the average atom inclusion at the recommended contour level (0.017) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.9150	0.5910
B	0.8690	0.5790
C	0.9490	0.6180
D	0.9640	0.6150
E	0.9630	0.6220
F	0.9260	0.6160
G	0.9200	0.6120
H	0.9620	0.6200
I	0.9000	0.5720
J	0.8980	0.5740
K	0.9340	0.5990
O	0.6670	0.5170

1.0

0.0

<0.0