Petrie Museum of Egyptian Archaeology

Metrology Report Summary



Created by: Károly Póka
Organisation: Artifact Research Foundation
Date: 2025-09-30

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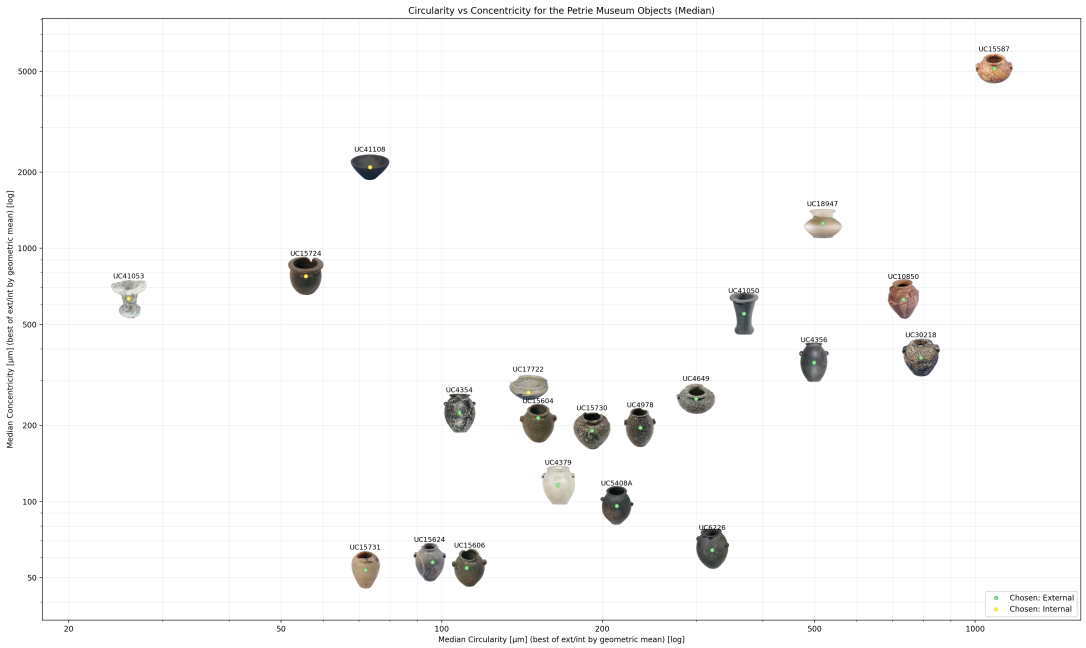
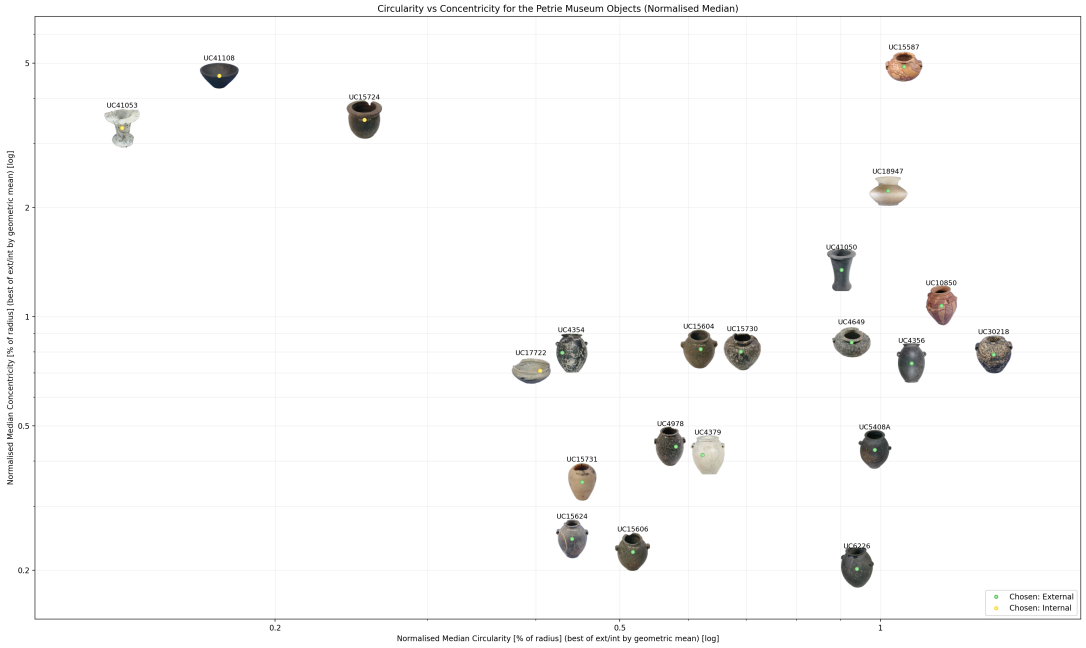
Object Comparison





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Chapter 1

Vases



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1.1 UC10850

1.1.1 Artifact Information



Accession Number	LDUCE-UC10850
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Decorated pot, type D 2 k; wavy handled. From Hu tomb U 78.
Publications	- Petrie, William Matthew Flinders, Corpus of Prehistoric Pottery and Palettes, pl.XXXI, D2K
Production Period	Naqada II
Material	pottery
Dimensions	height: 17.85 cms; diameter: 16.6 cms
Notes	Object Category: vessels

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1.1.2 External

Circularity

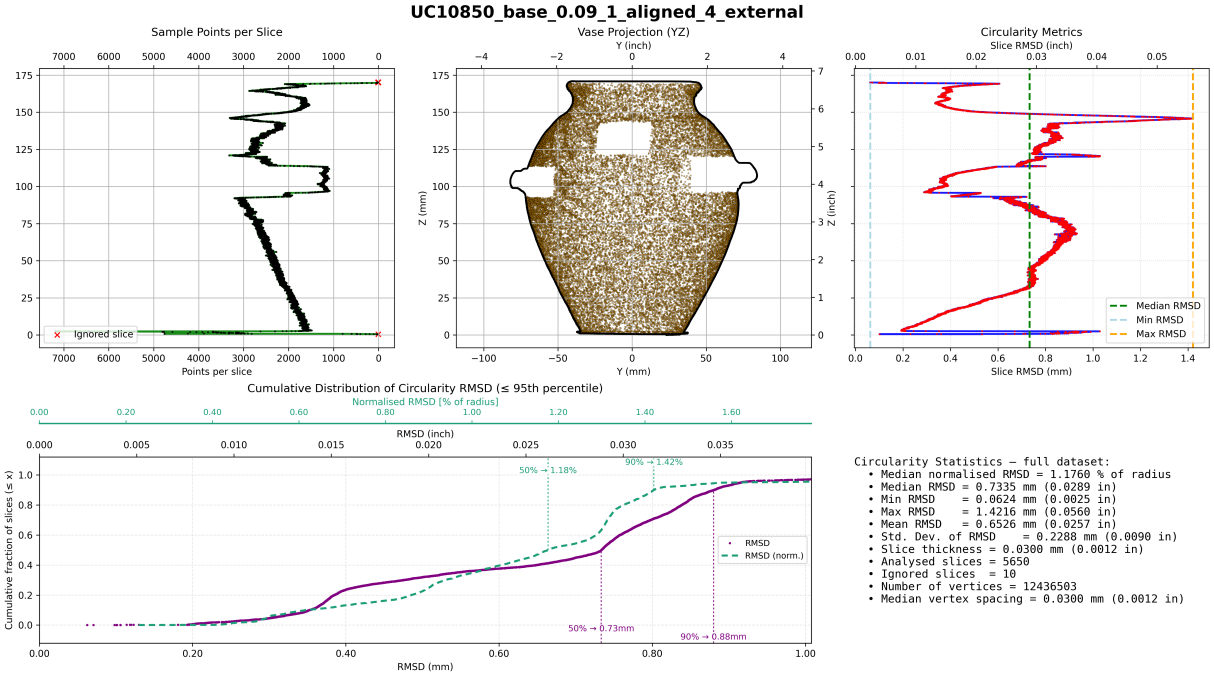

Figure 1.1: Circularity (External)

Concentricity

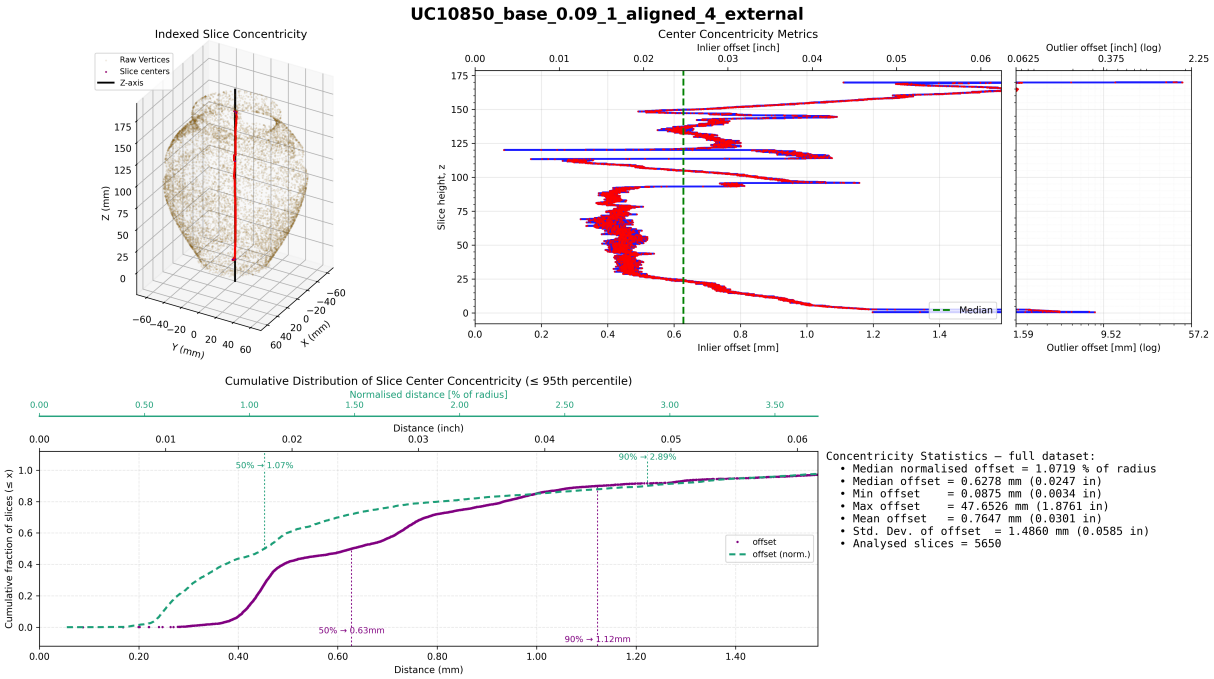

Figure 1.2: Concentricity (External)

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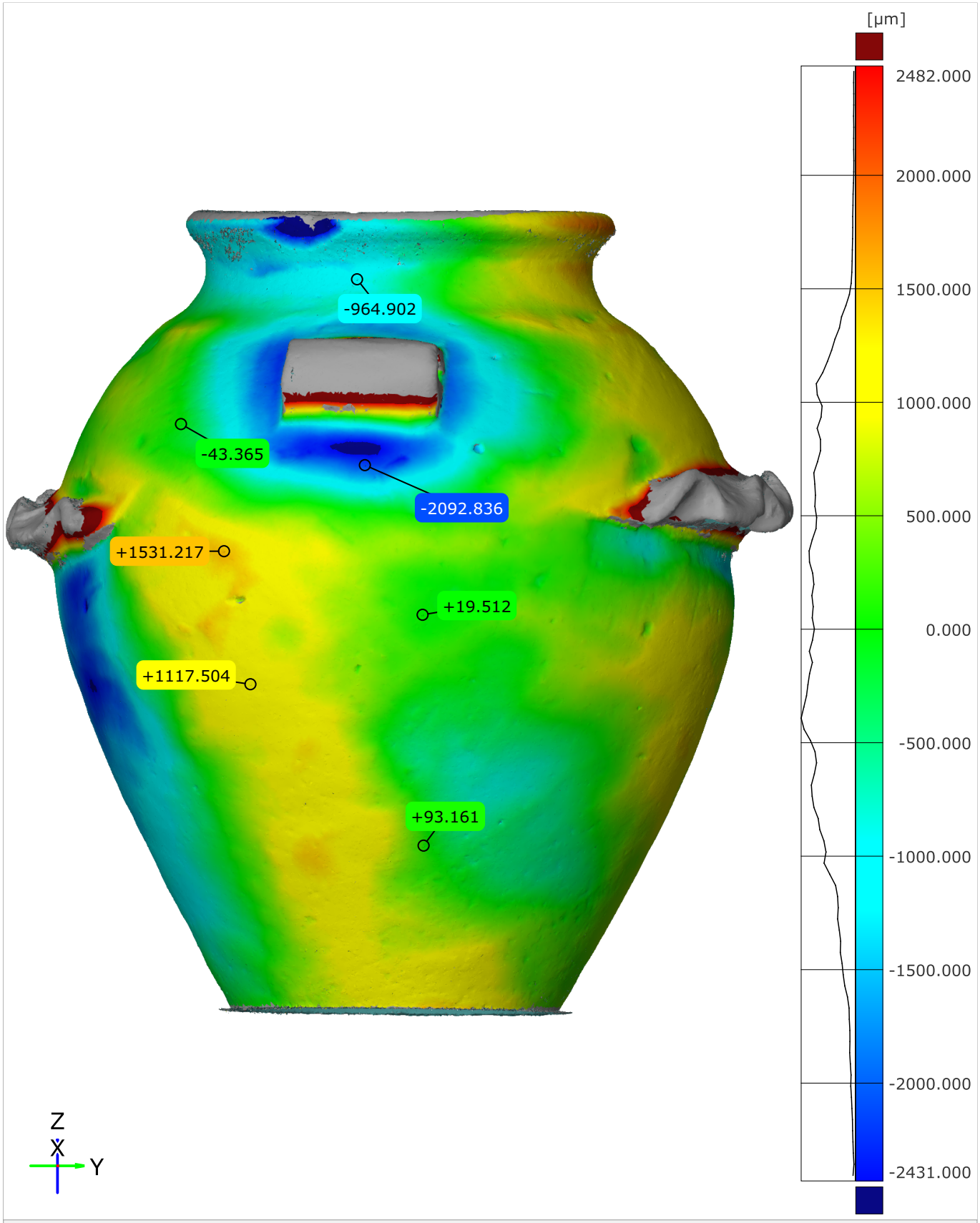
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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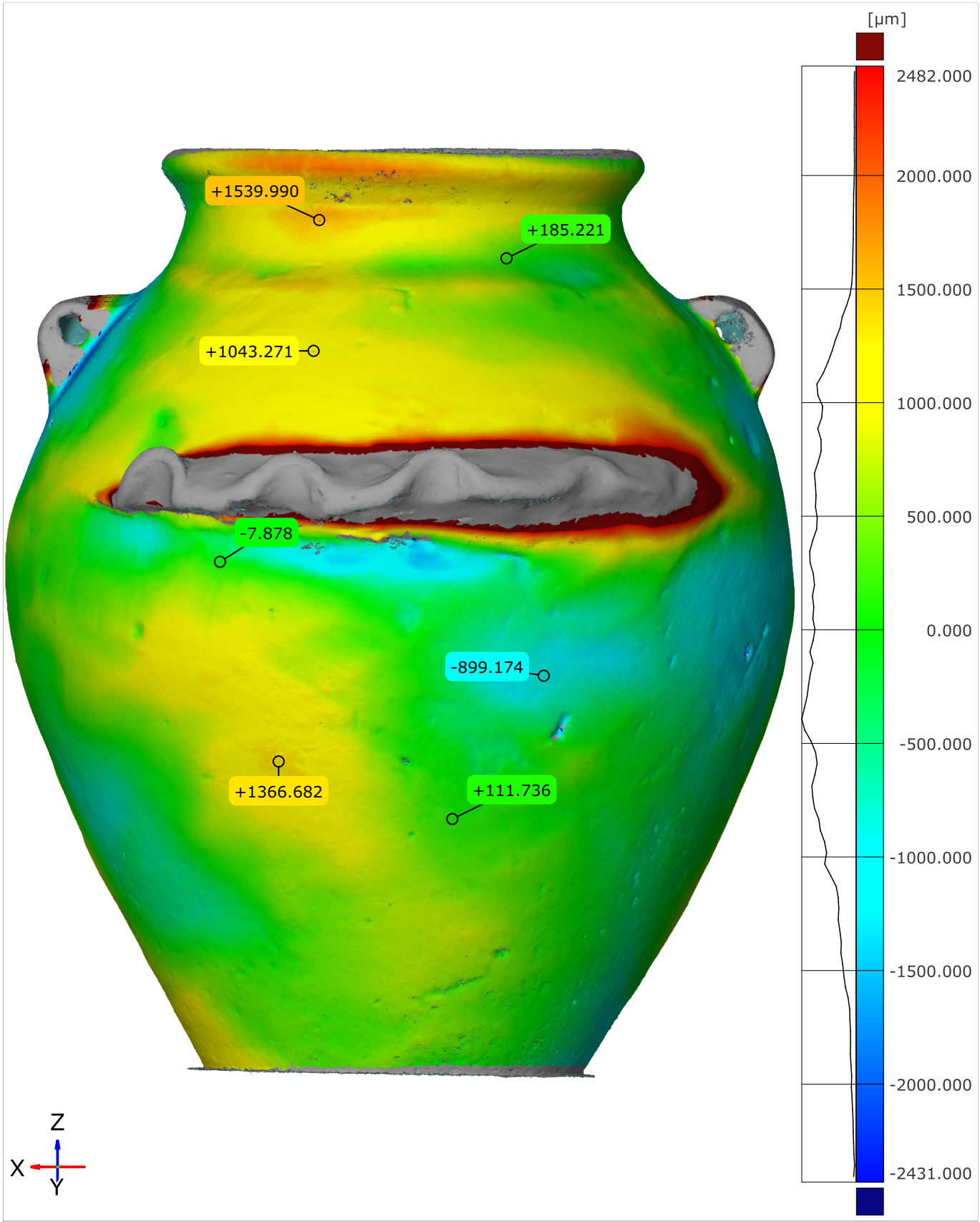
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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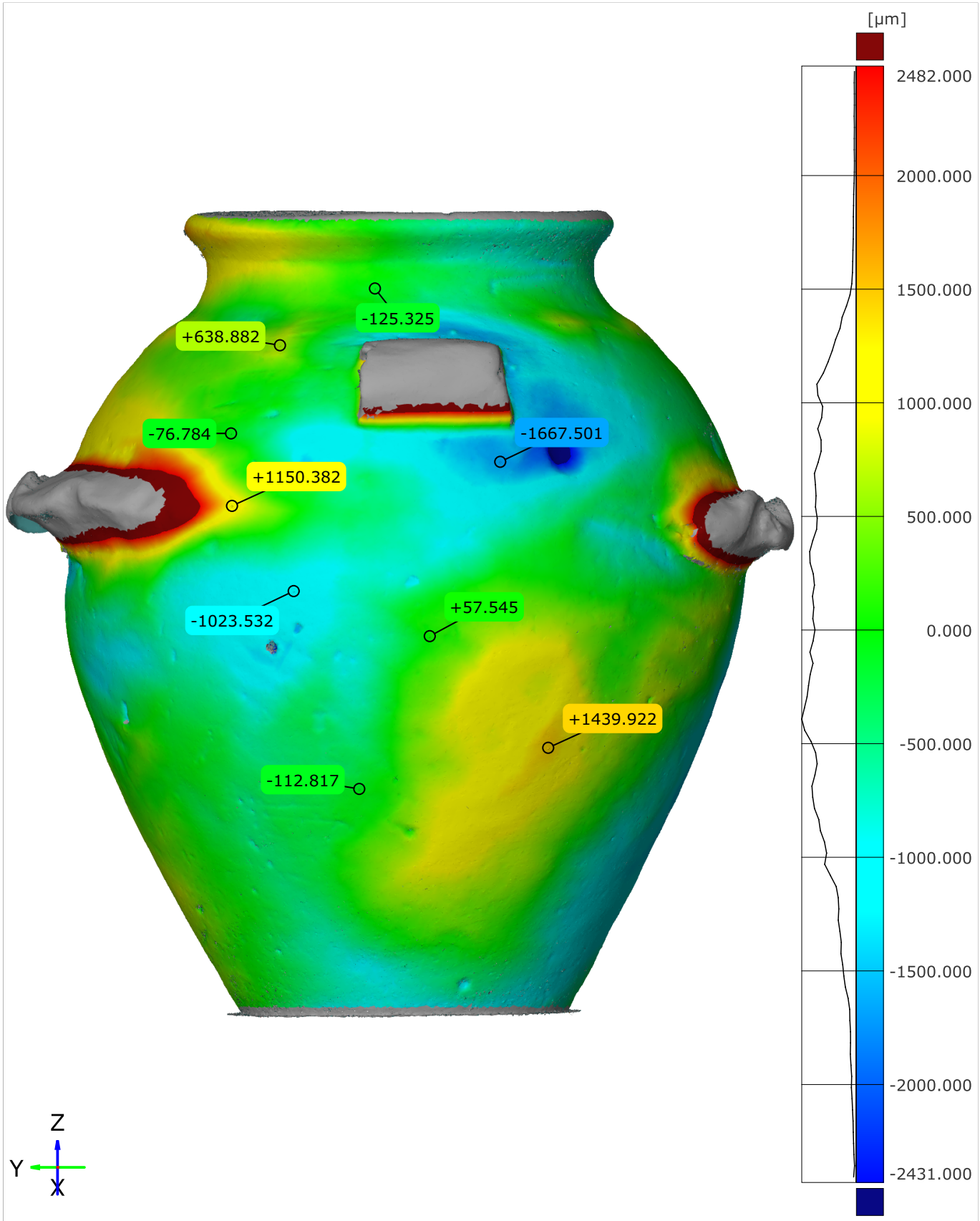
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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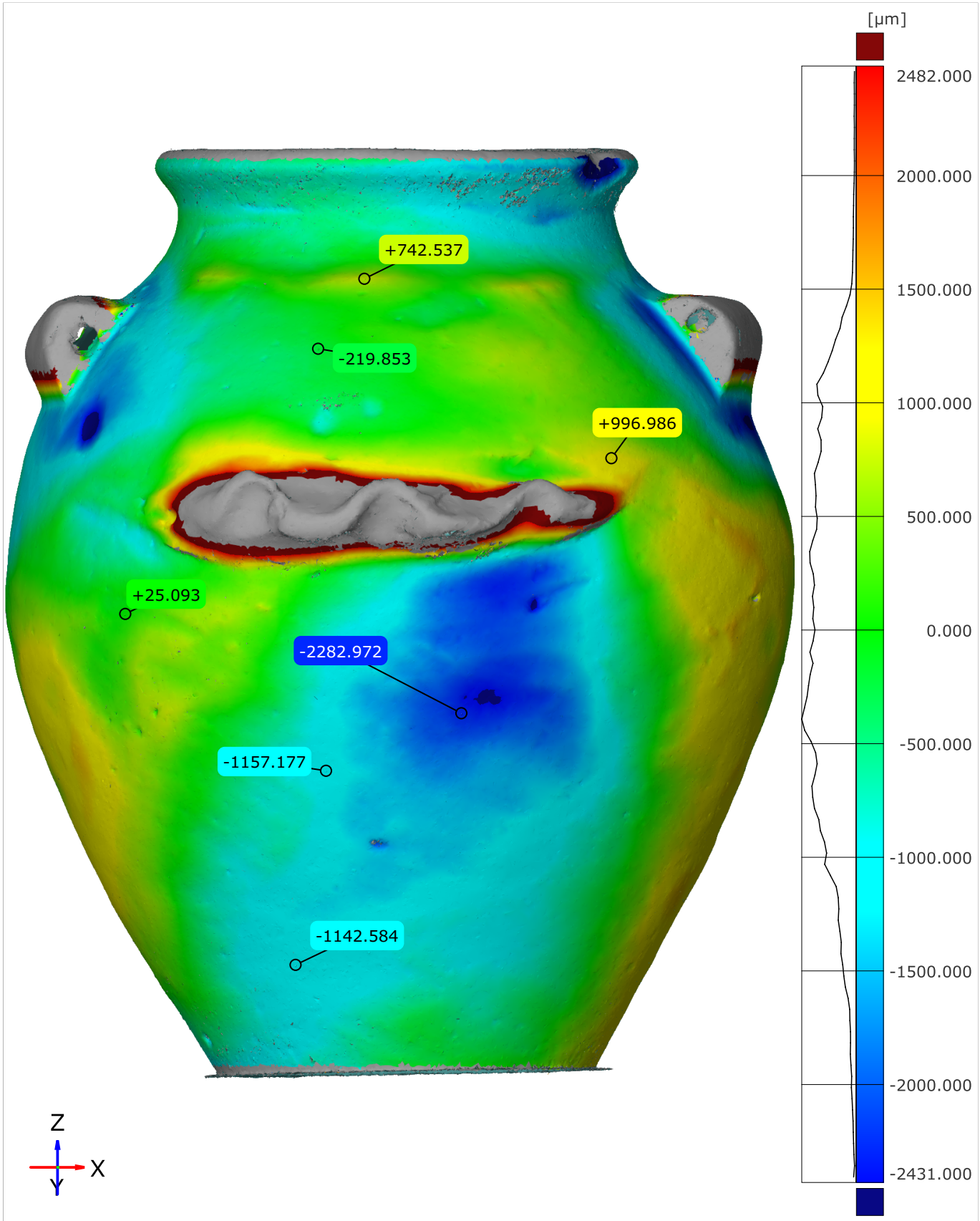
Surface Deviation Heatmap - Side 4



Original alignment Length unit: µm

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Surface Deviation ECDF

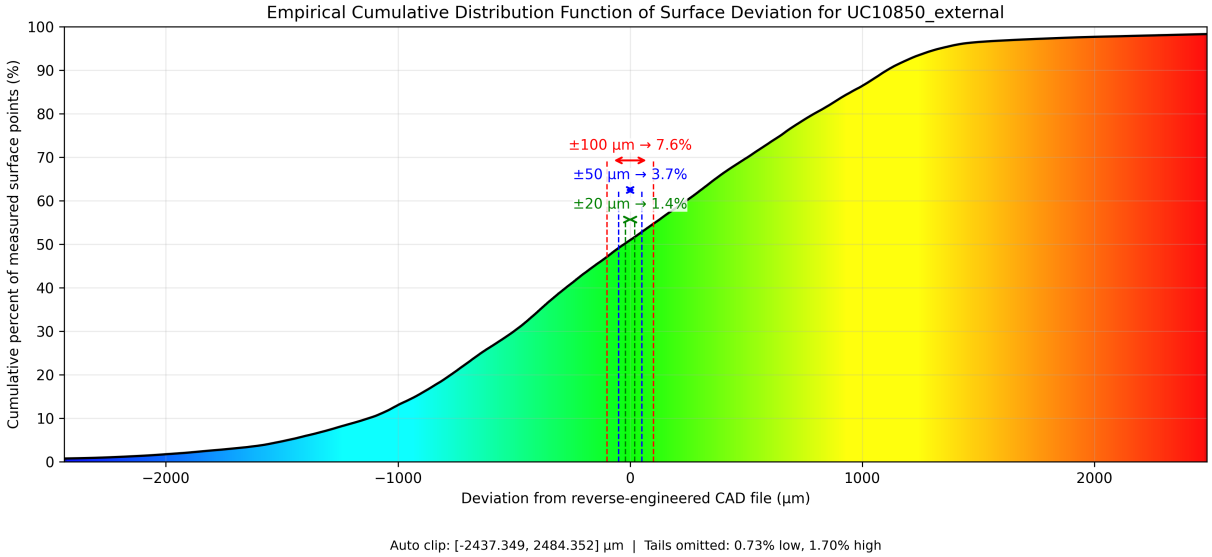

Figure 1.3: Surface Deviation ECDF (External)

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1.1.3 Internal

Circularity

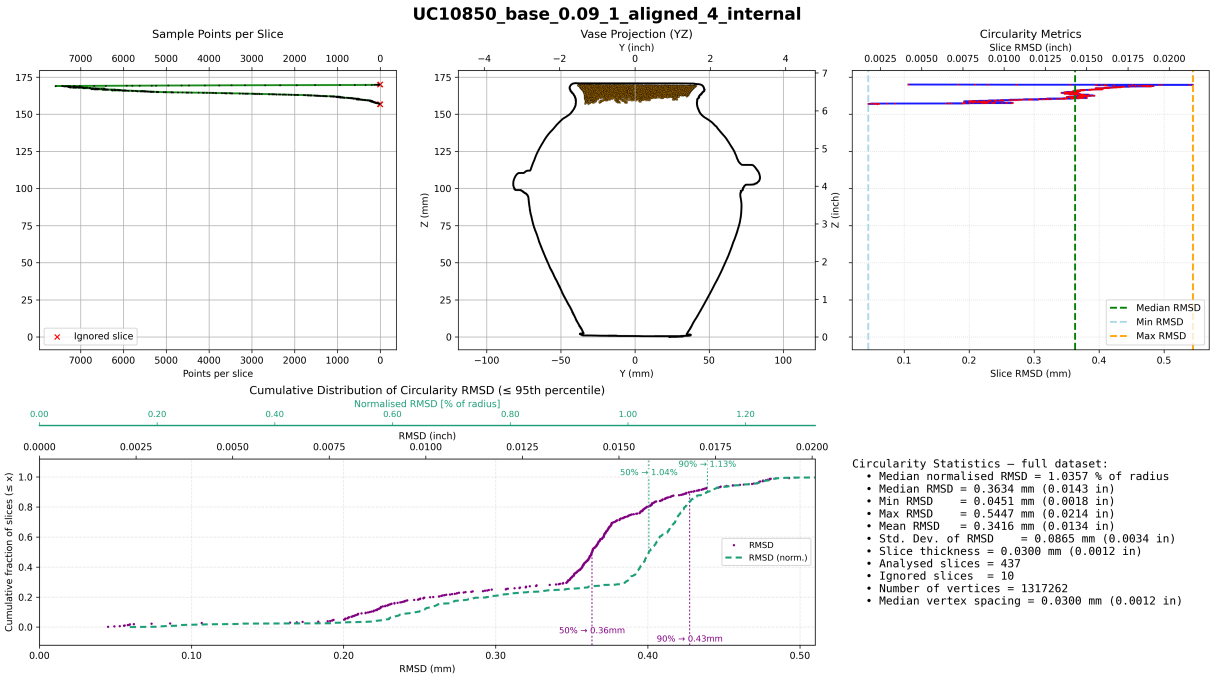

Figure 1.4: Circularity (Internal)

Concentricity

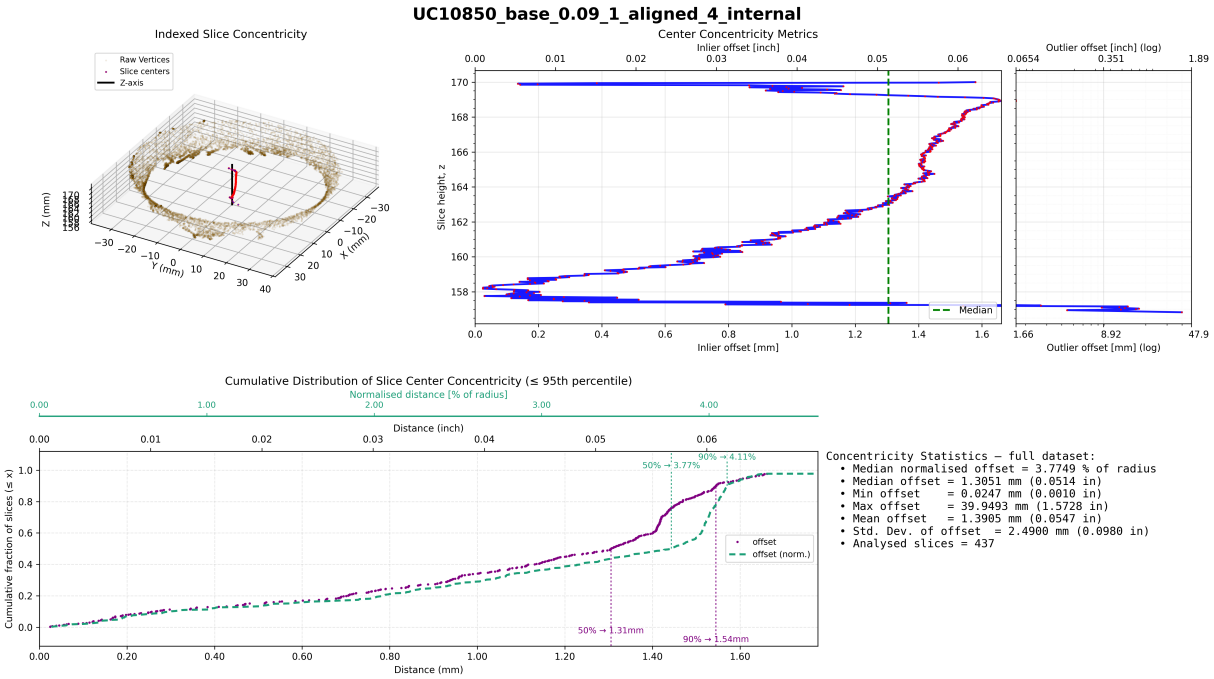

Figure 1.5: Concentricity (Internal)

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1.2 UC15587

1.2.1 Artifact Information



Accession Number	LDUCE-UC15587
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Squat red and white breccia vase, with two cylindrical handles (Petrie type 5). Bought by Petrie at Abydos (Journal 1902-3, p.7).
Publications	- Petrie, William Matthew Flinders, Prehistoric Egypt, pl. XXXVI.60 and XXXVII.10
Production Period	Naqada II
Material	breccia
Dimensions	width: 24 cms
Notes	Object Category: vases; \\ Provenance: Bought by Petrie at Abydos

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1.2.2 External

Circularity

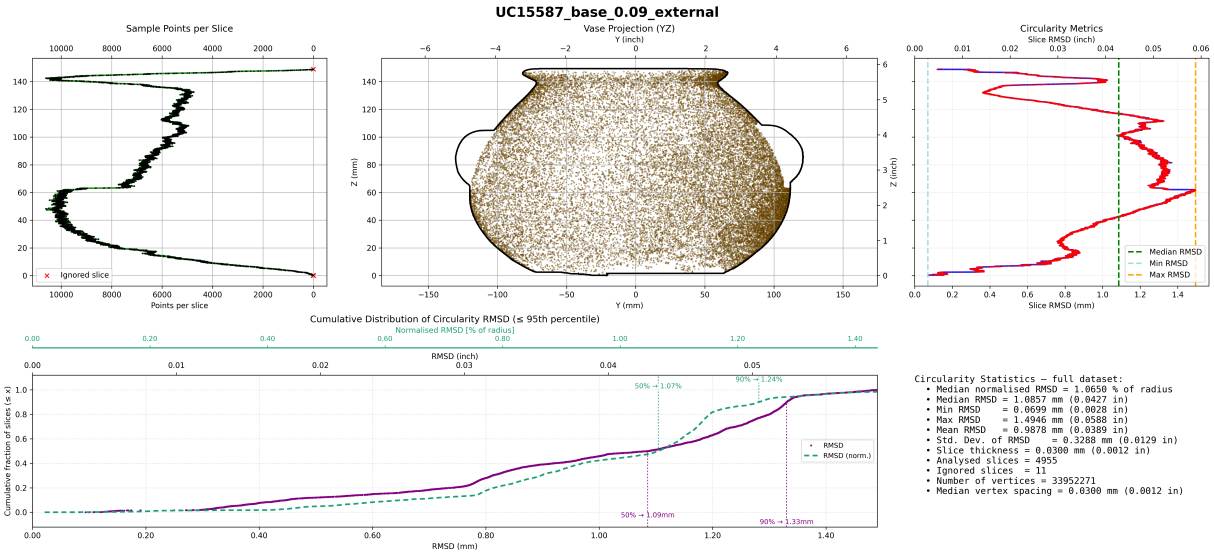

Figure 1.6: Circularity (External)

Concentricity

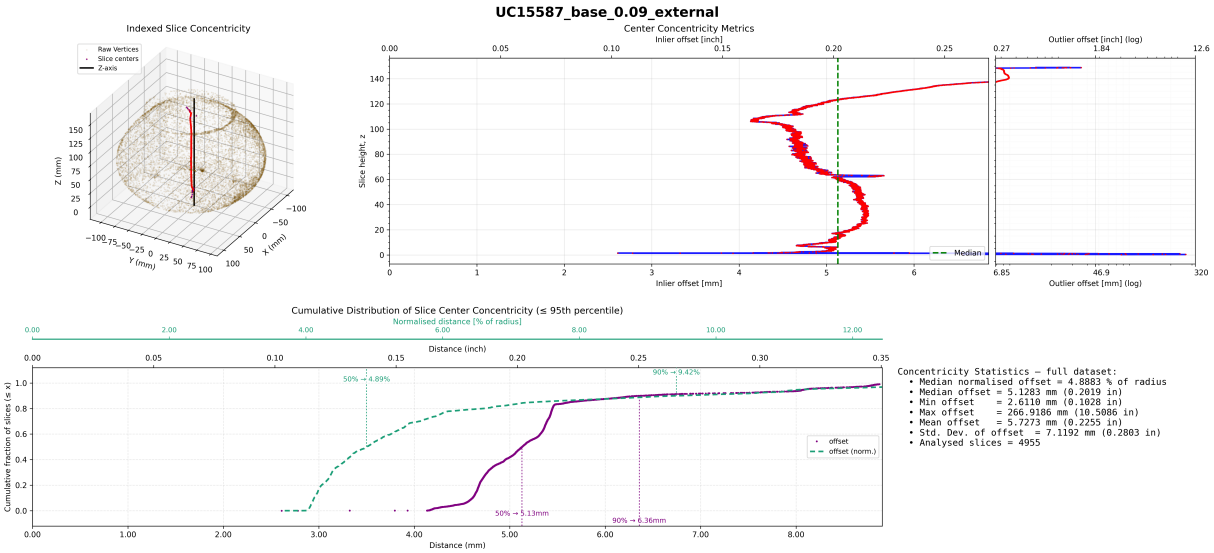

Figure 1.7: Concentricity (External)

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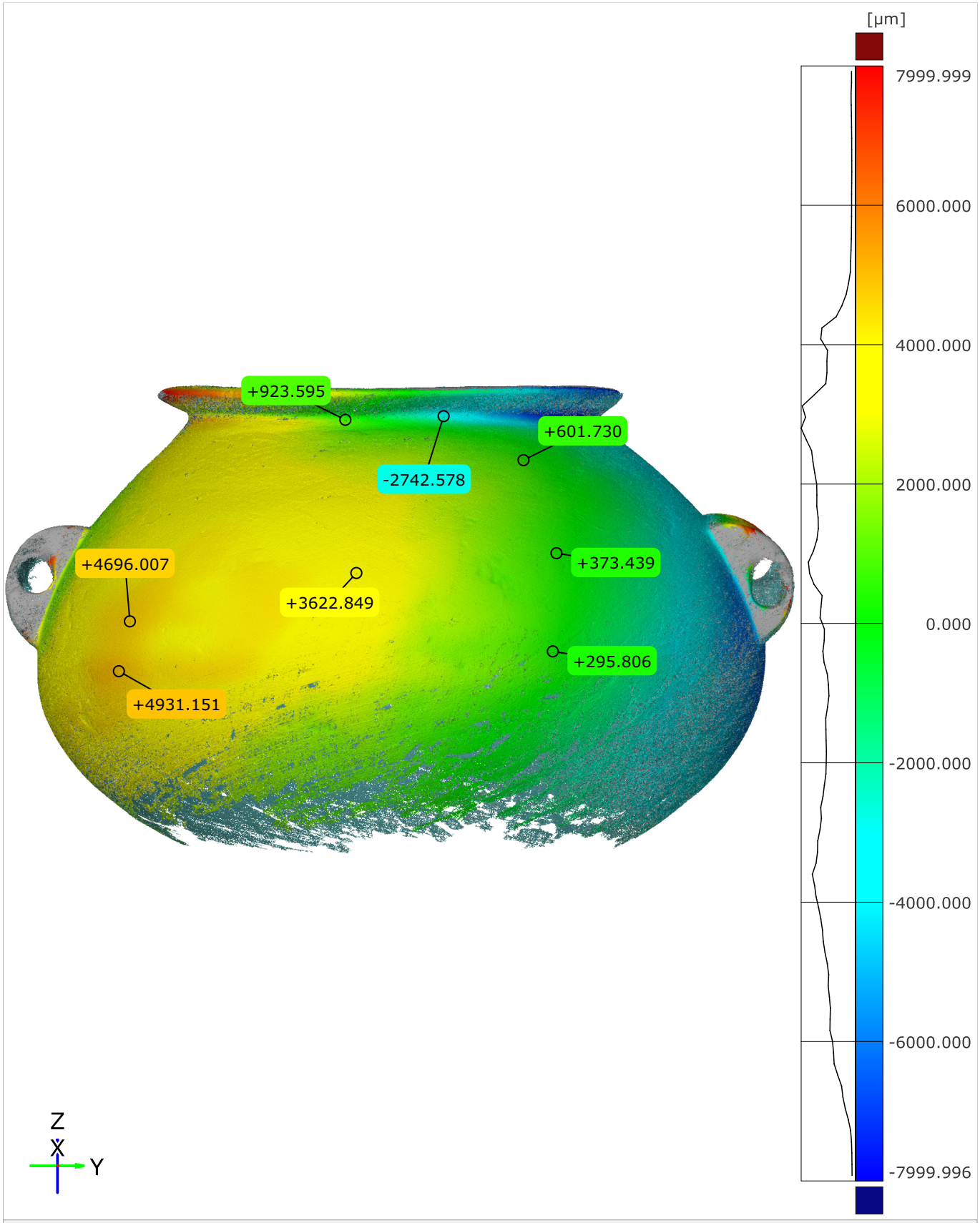
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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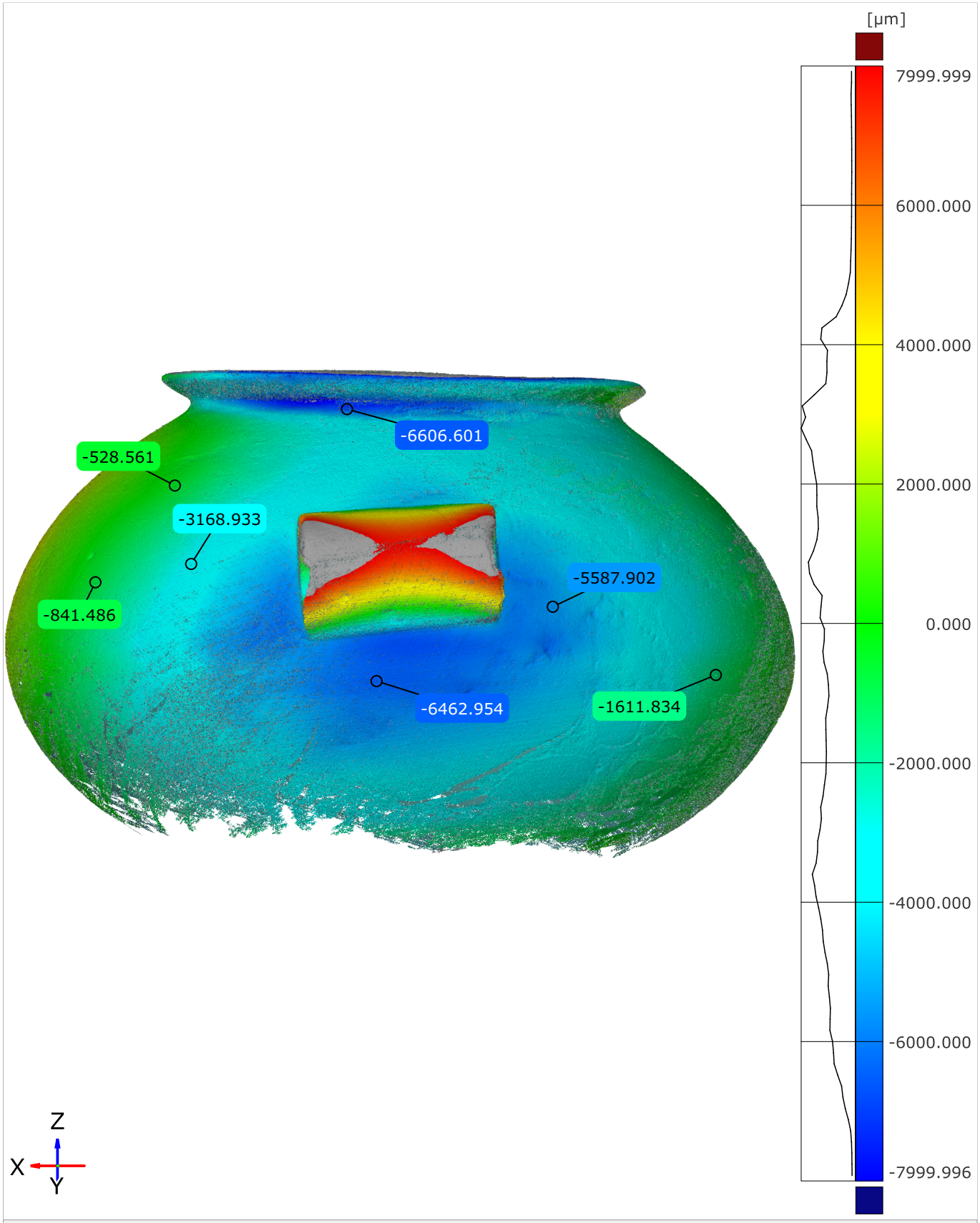
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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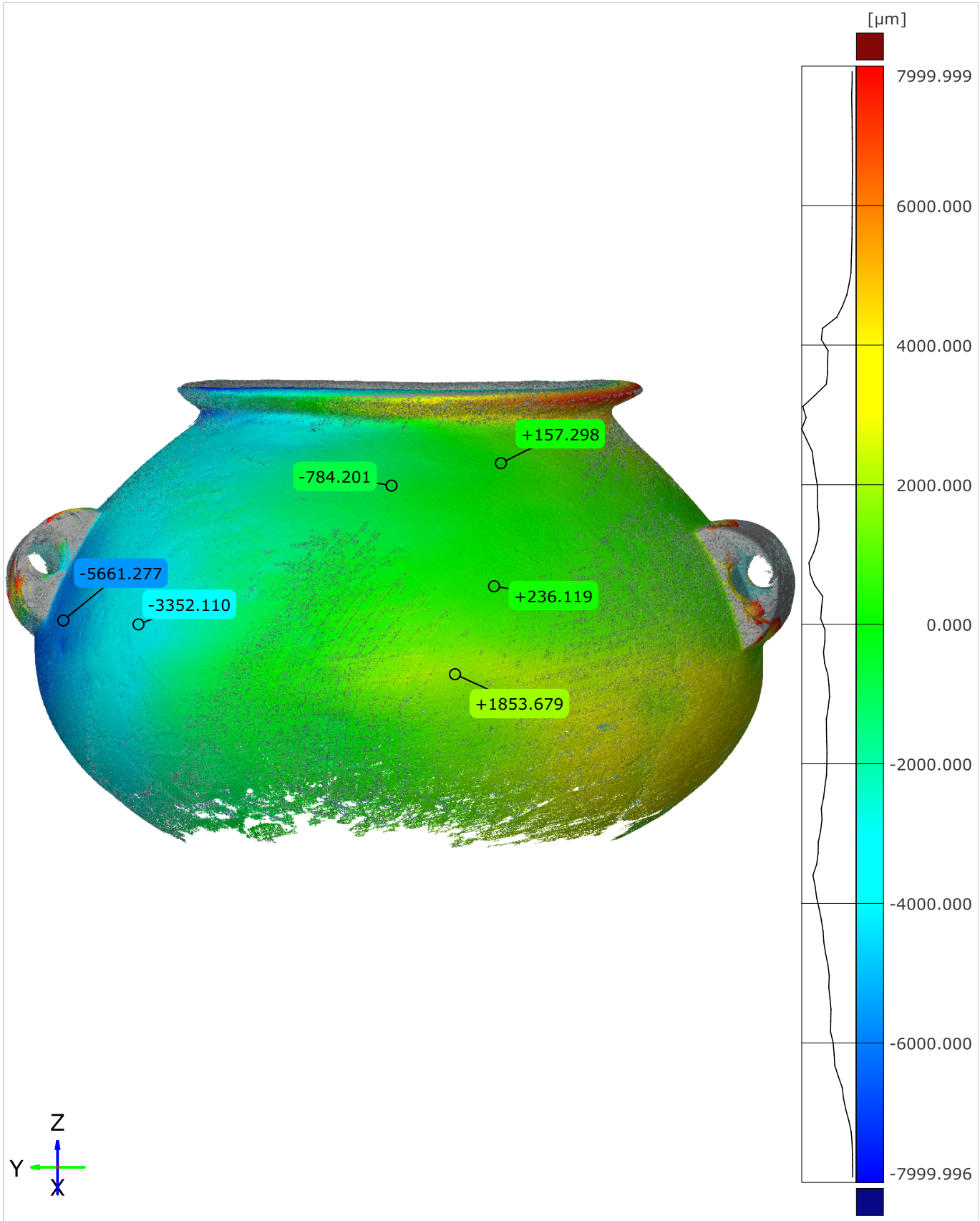
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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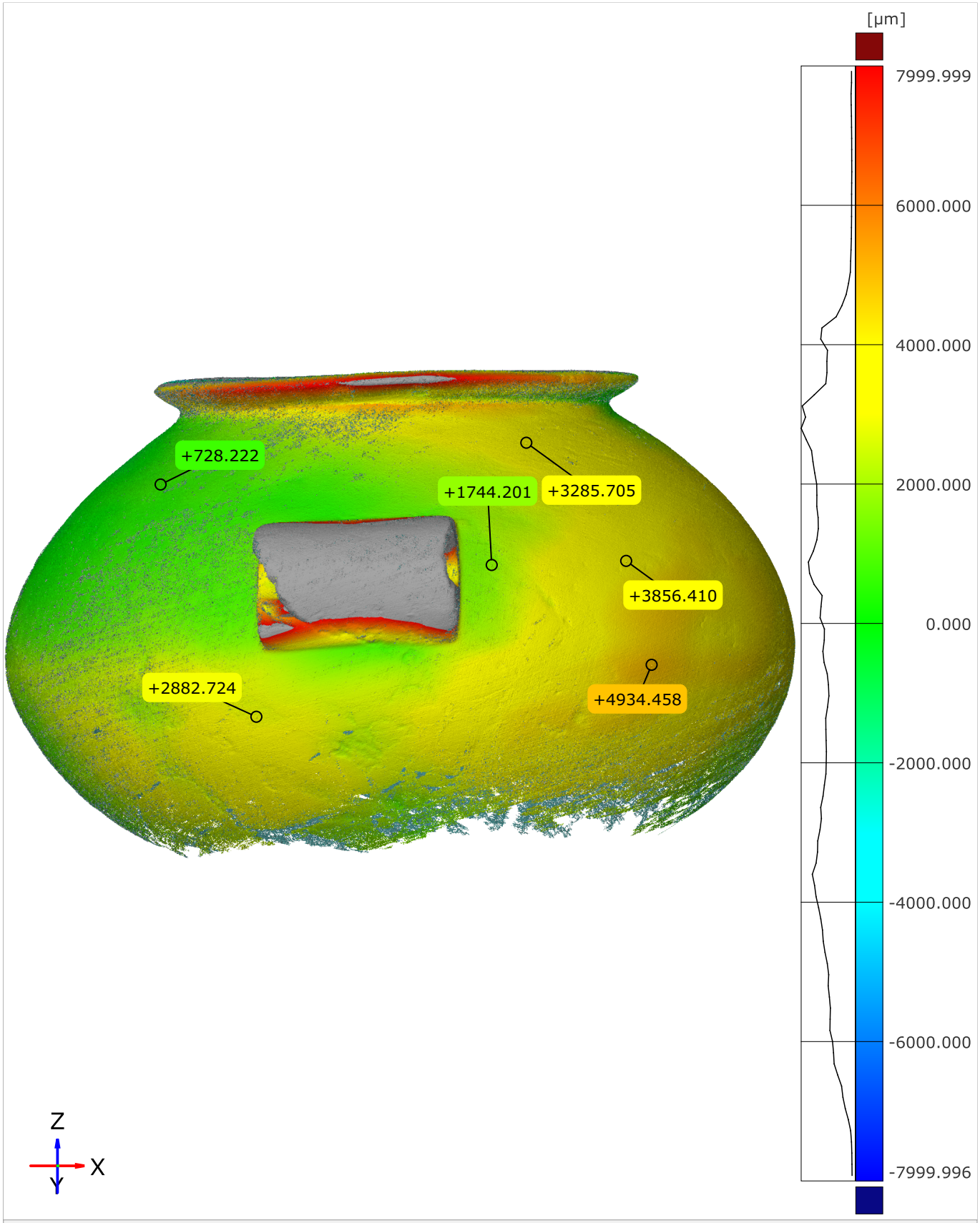
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

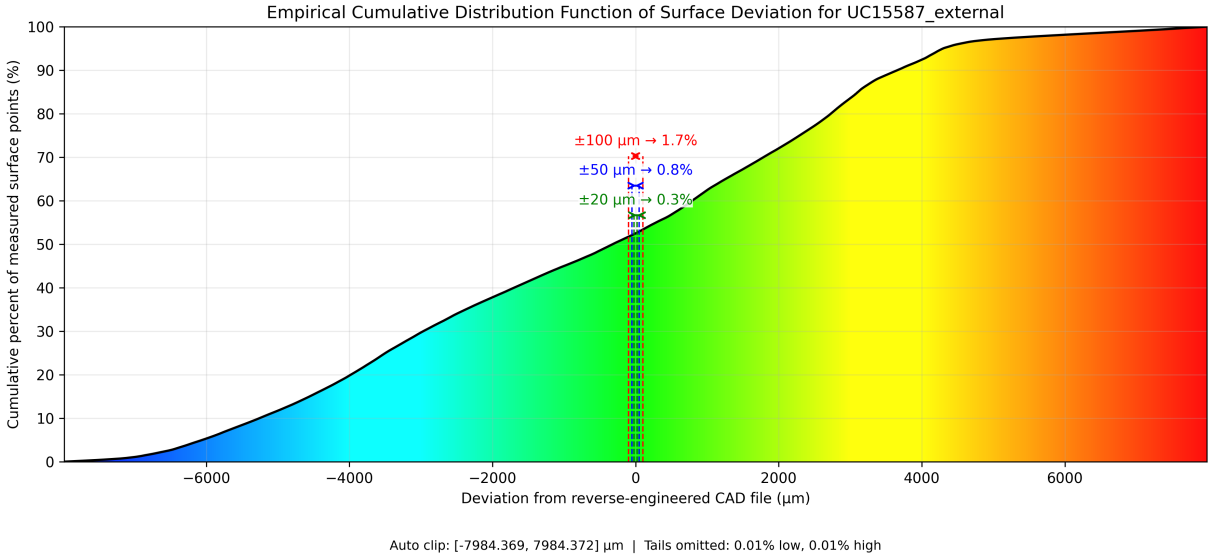

Figure 1.8: Surface Deviation ECDF (External)

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1.2.3 Internal

Circularity

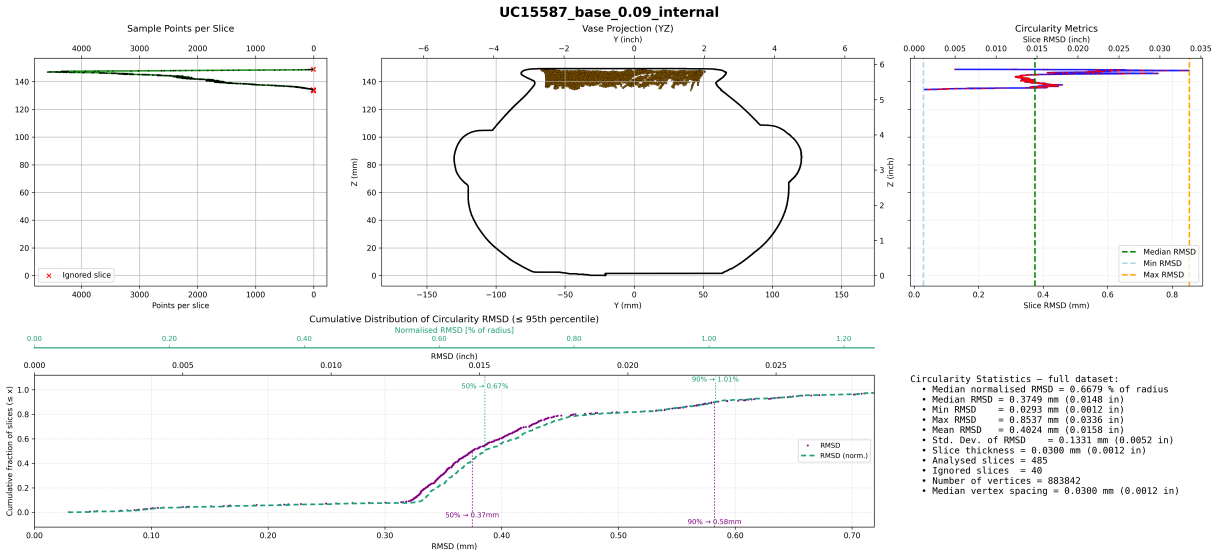

Figure 1.9: Circularity (Internal)

Concentricity

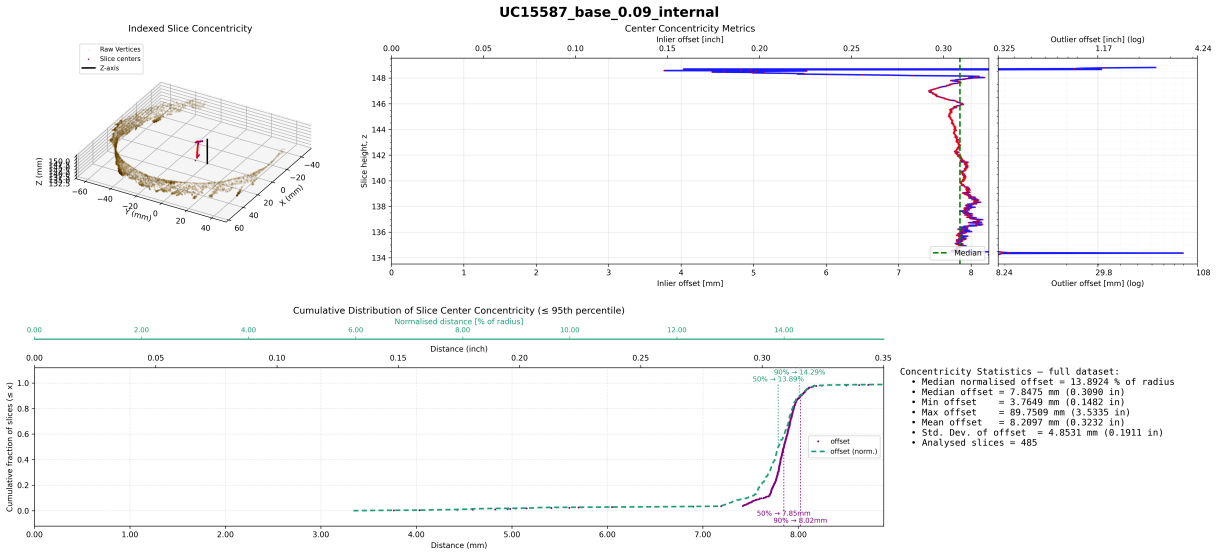

Figure 1.10: Concentricity (Internal)

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1.3 UC15604

1.3.1 Artifact Information



Accession Number	LDUCE-UC15604
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Andesite porphyry barrel vase with two lug handles, perforated horizontally, and flat base. Rim chipped.
Publications	- Petrie, William Matthew Flinders, Prehistoric Egypt, pl.XXXVIII.30
Production Period	(possible) Naqada II
Material	andesite
Dimensions	height: 6.1 cms
Notes	Object Category: vases

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1.3.2 External

Circularity

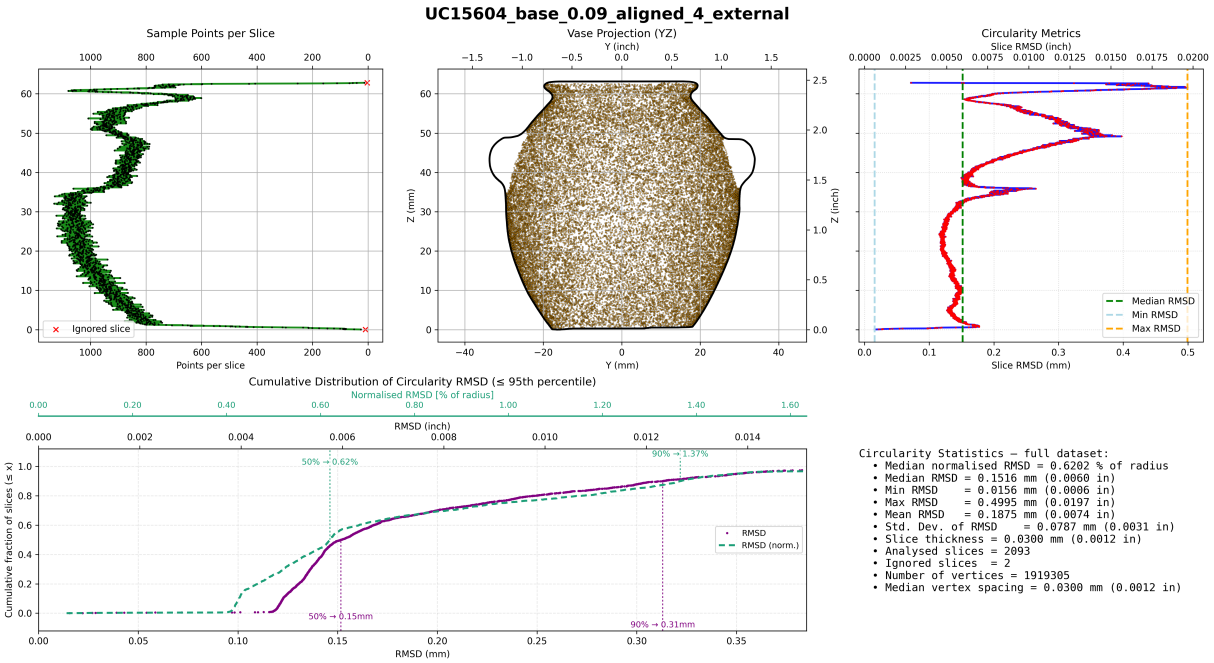

Figure 1.11: Circularity (External)

Concentricity

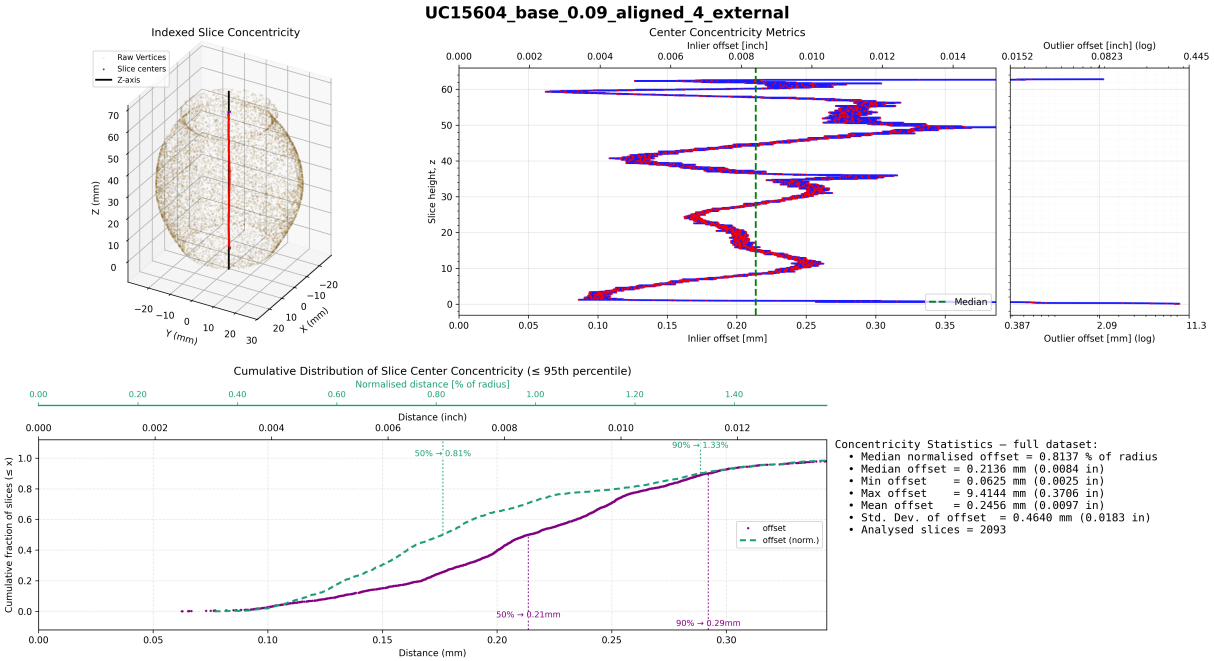

Figure 1.12: Concentricity (External)

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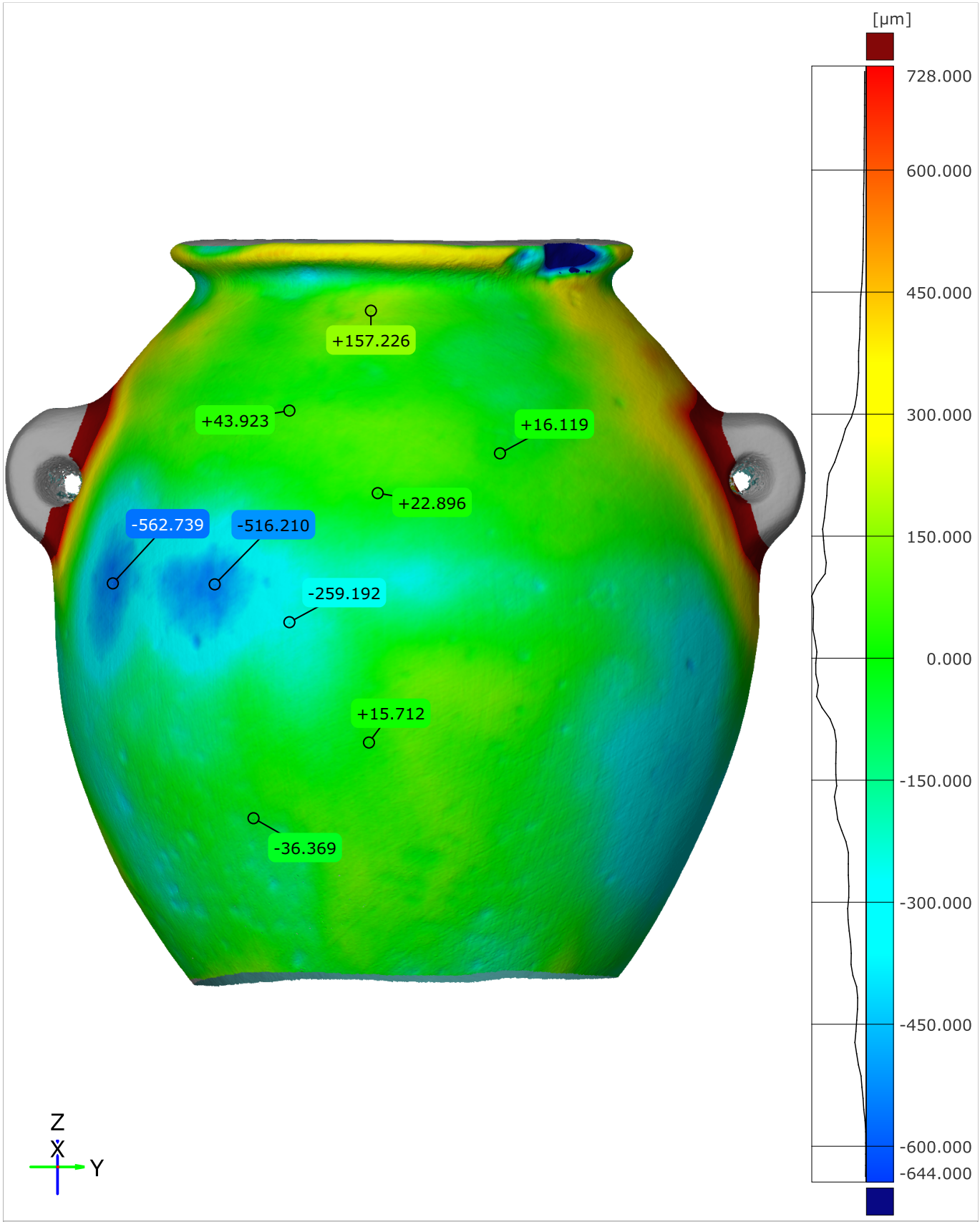
Surface Deviation Heatmap - Side 1



Original alignment — Length unit: µm

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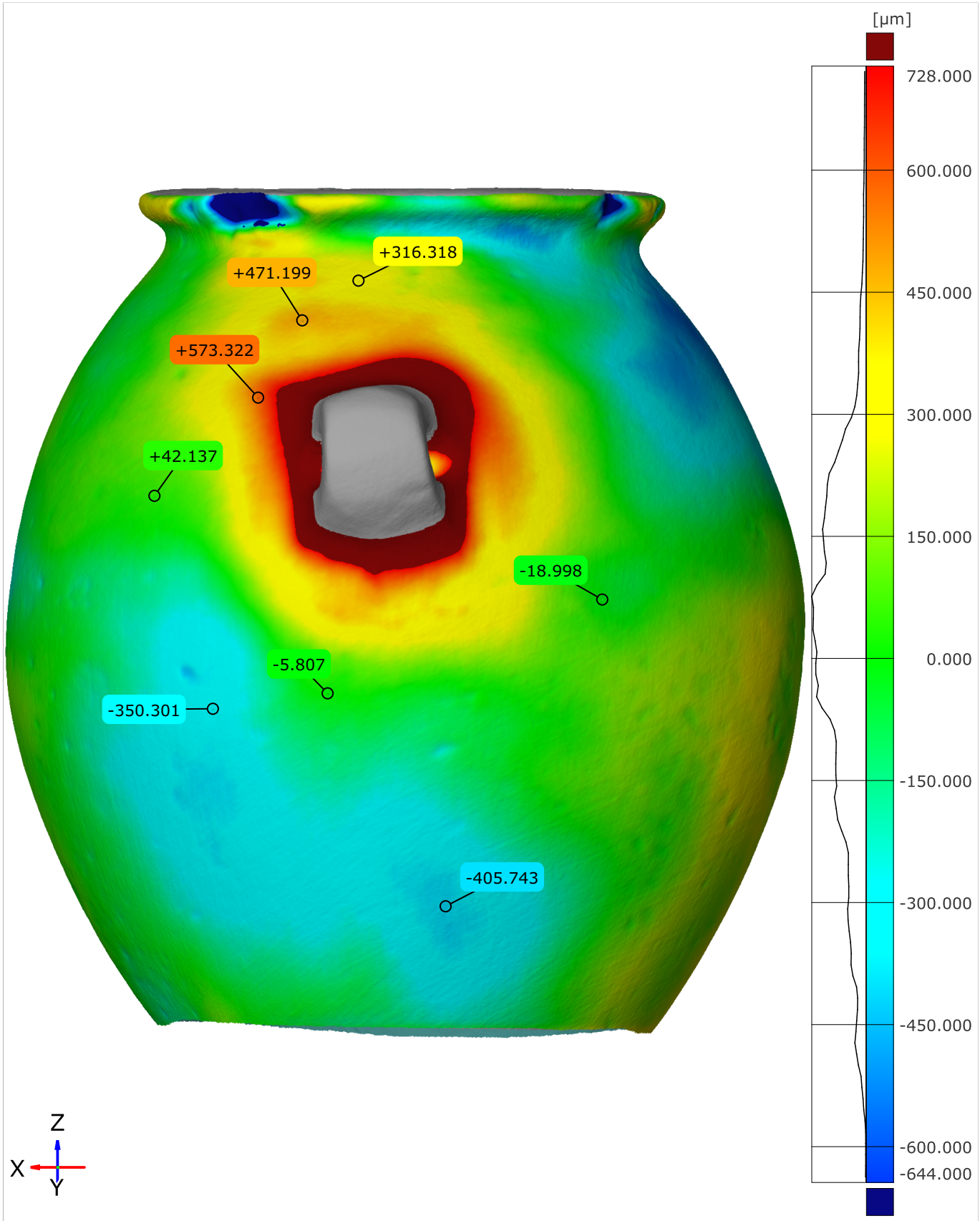
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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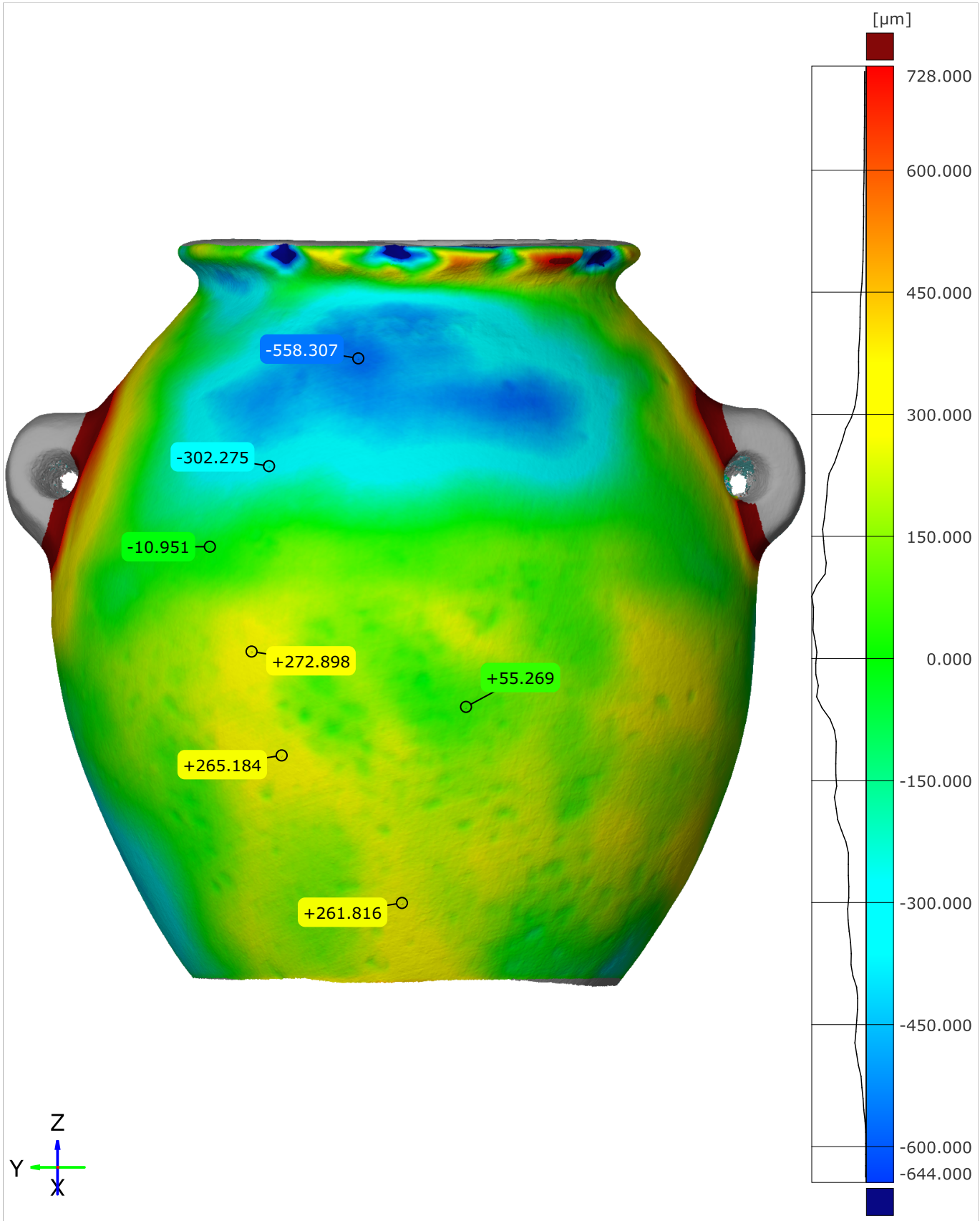
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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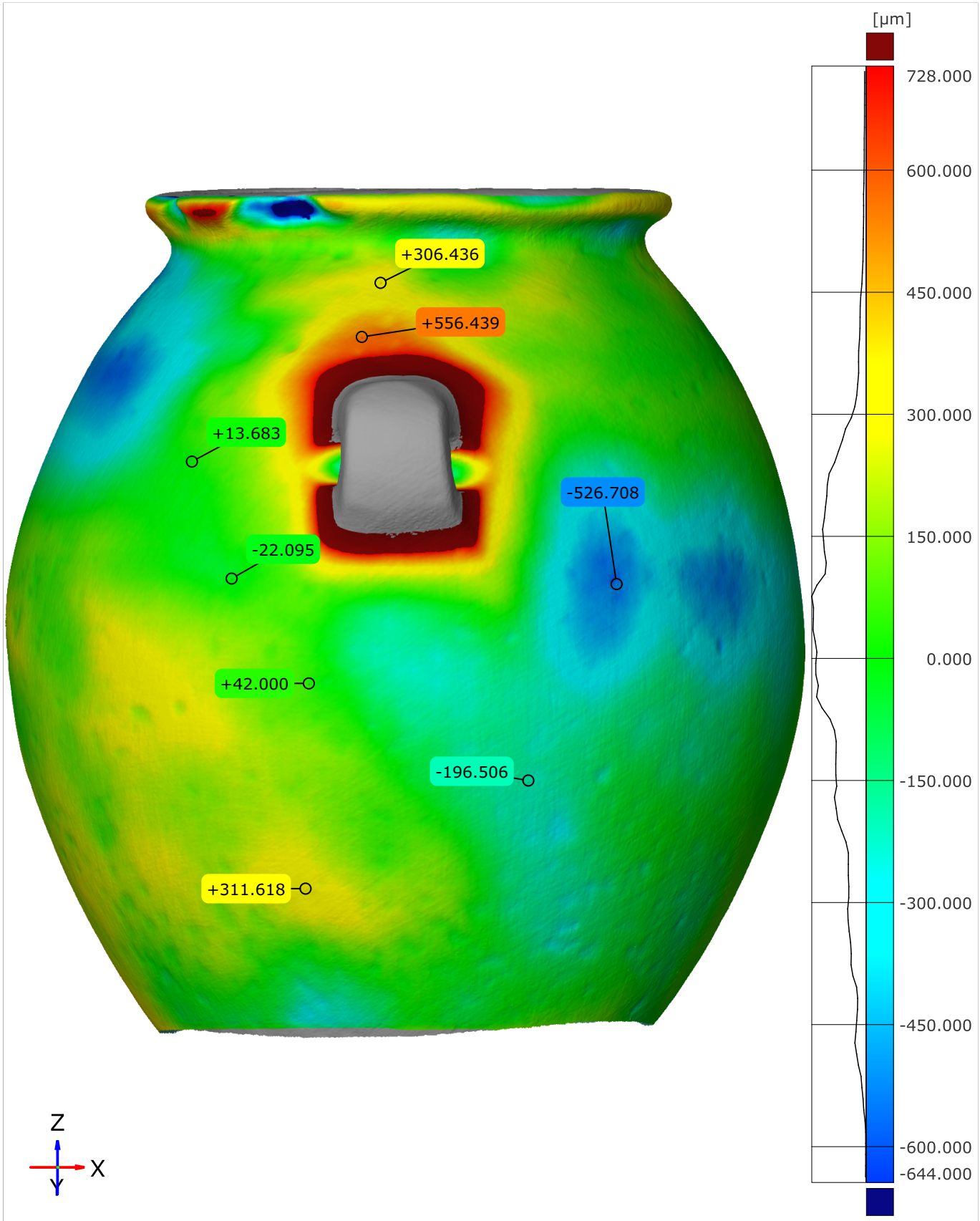
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

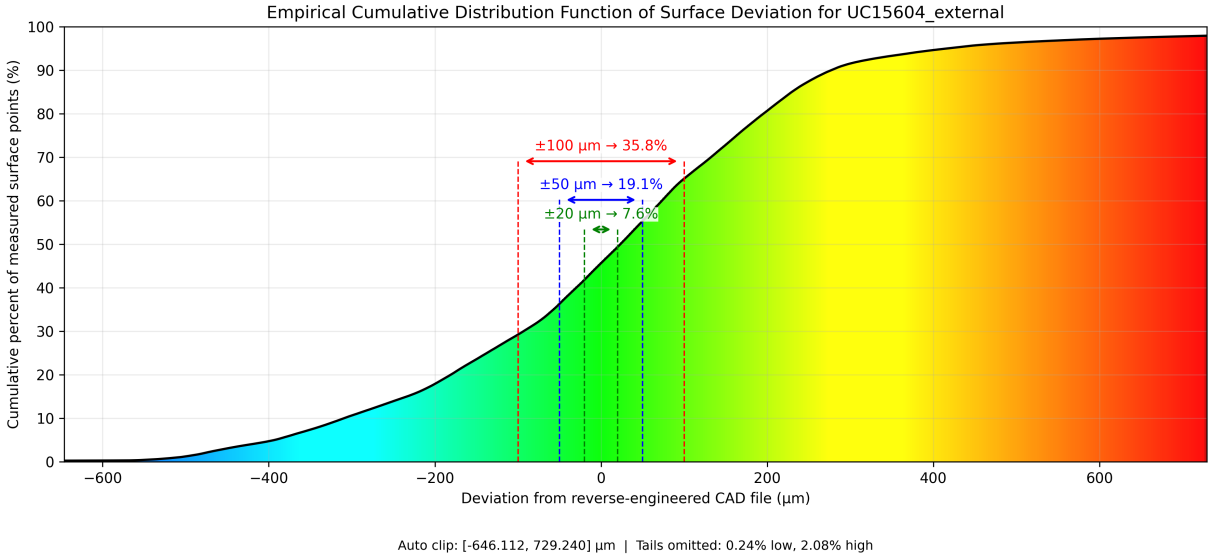

Figure 1.13: Surface Deviation ECDF (External)

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1.3.3 Internal

Circularity

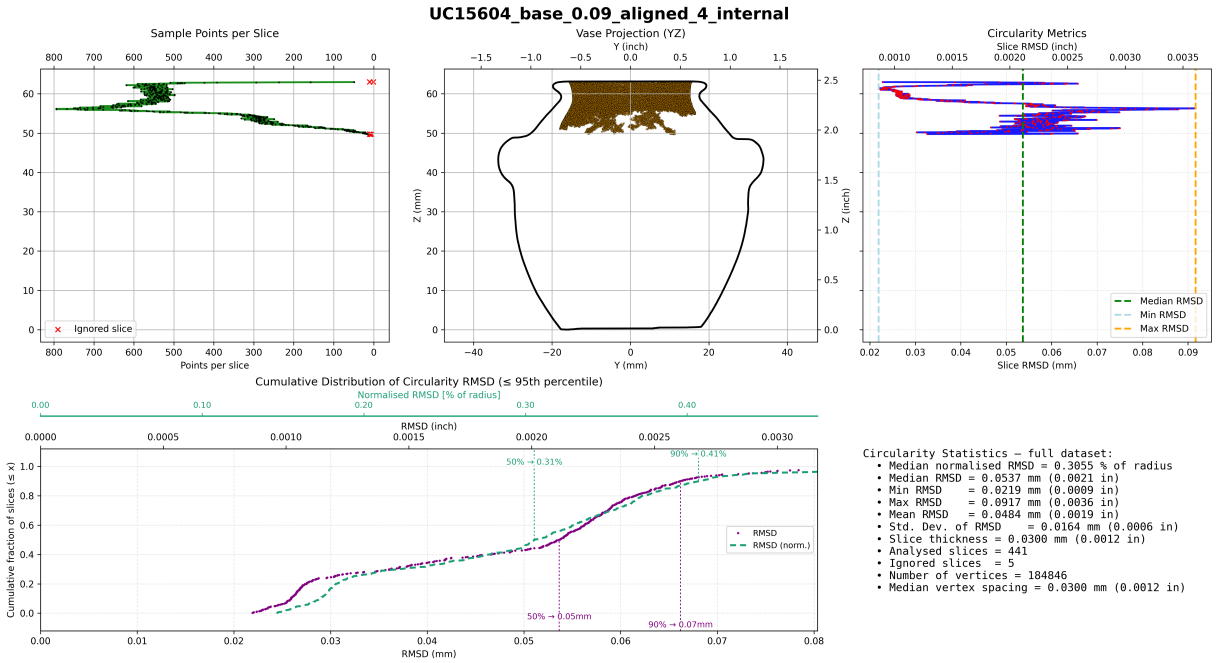

Figure 1.14: Circularity (Internal)

Concentricity

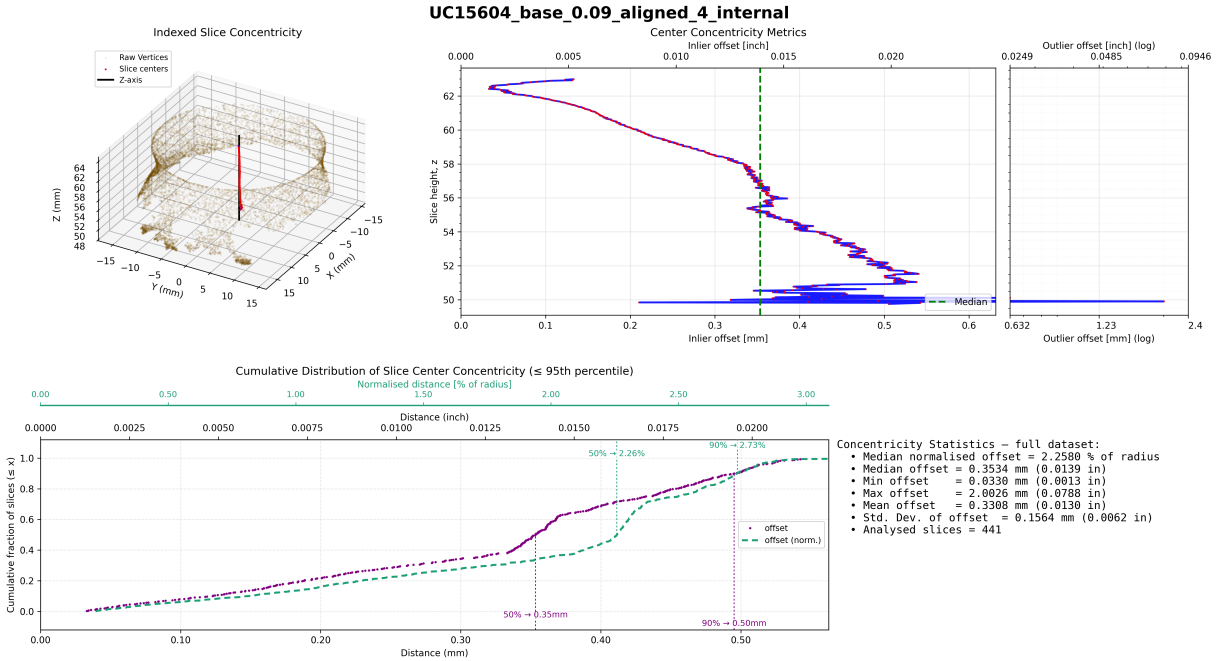

Figure 1.15: Concentricity (Internal)

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1.4 UC15606

1.4.1 Artifact Information



Accession Number	LDUCE-UC15606
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Basalt barrel vase, with two lug handles perforated horizontally, flat base, rim chipped.
Publications	- Petrie, William Matthew Flinders, Prehistoric Egypt, pl.XXXVIII.38 - Mallory, Leanne, Predynastic and First Dynasty Egyptian Basalt Vessels
Production Period	Naqada II
Material	basalt
Dimensions	height: 6.1 cms
Notes	Object Category: vases

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1.4.2 External

Circularity

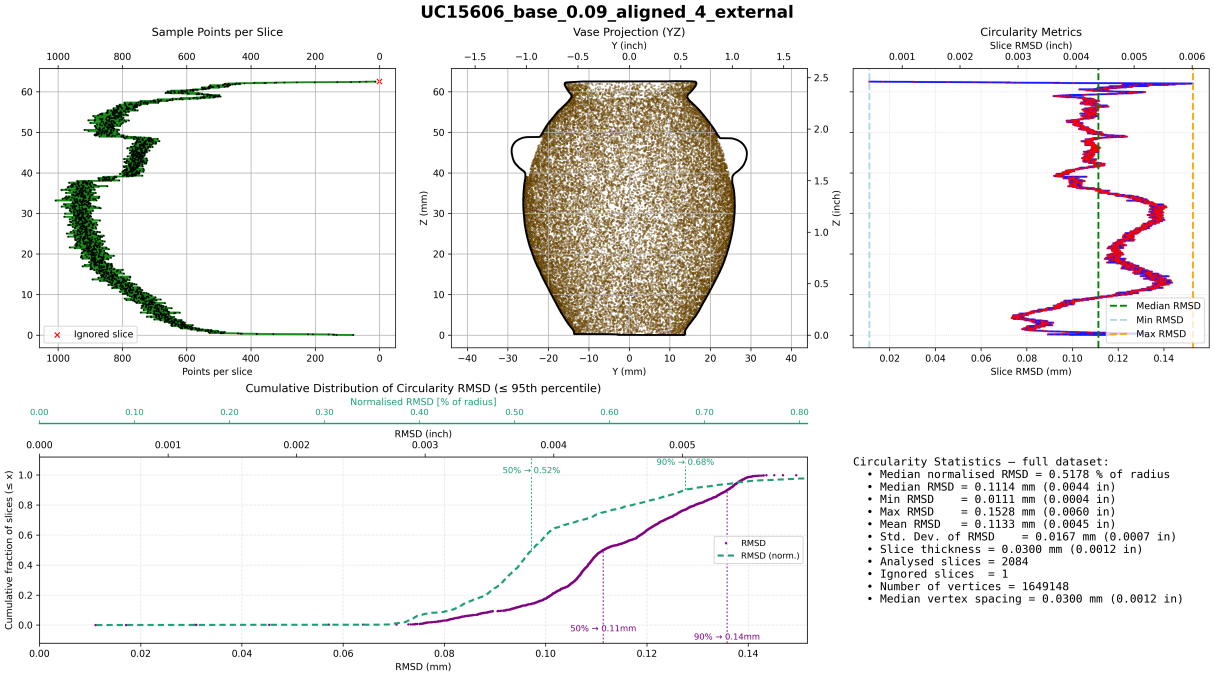

Figure 1.16: Circularity (External)

Concentricity

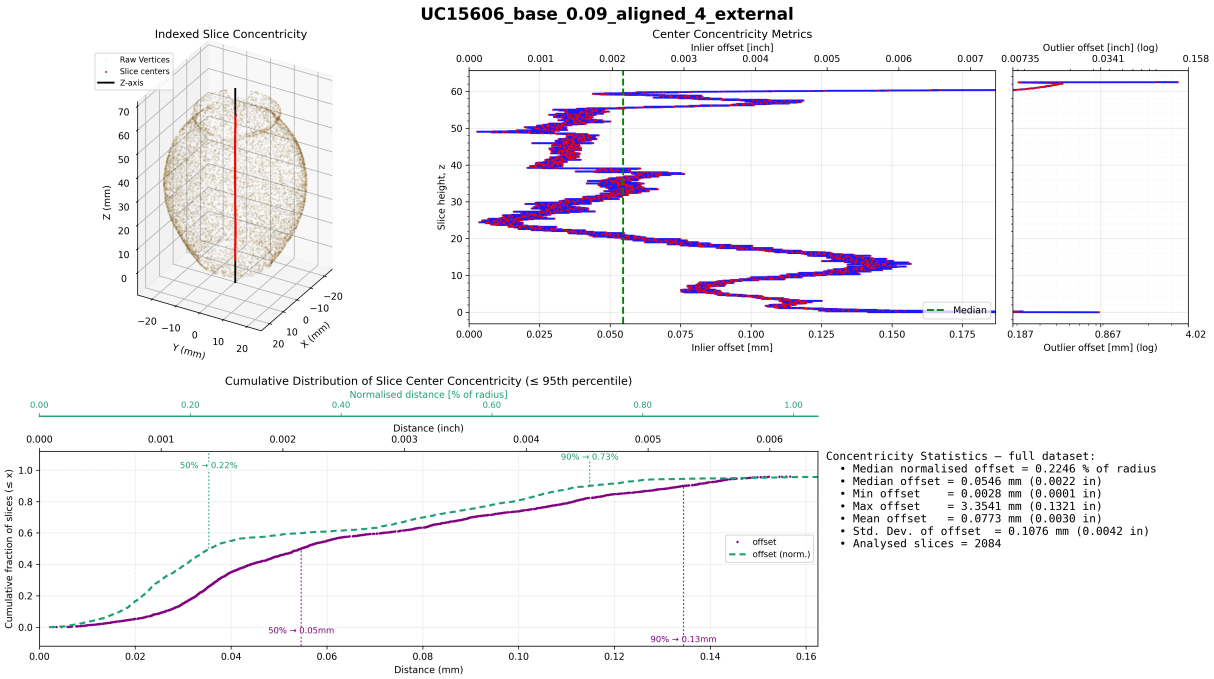

Figure 1.17: Concentricity (External)

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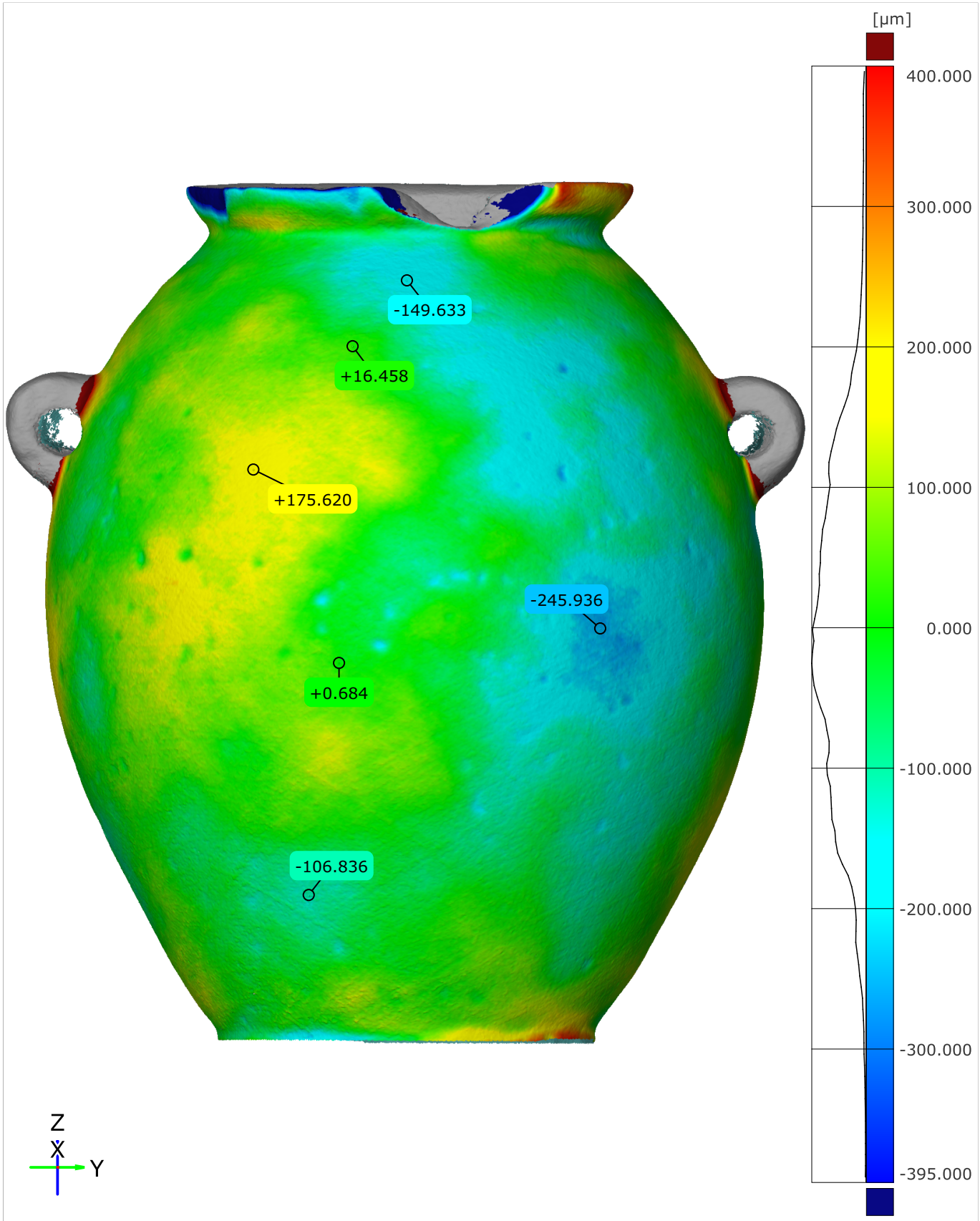
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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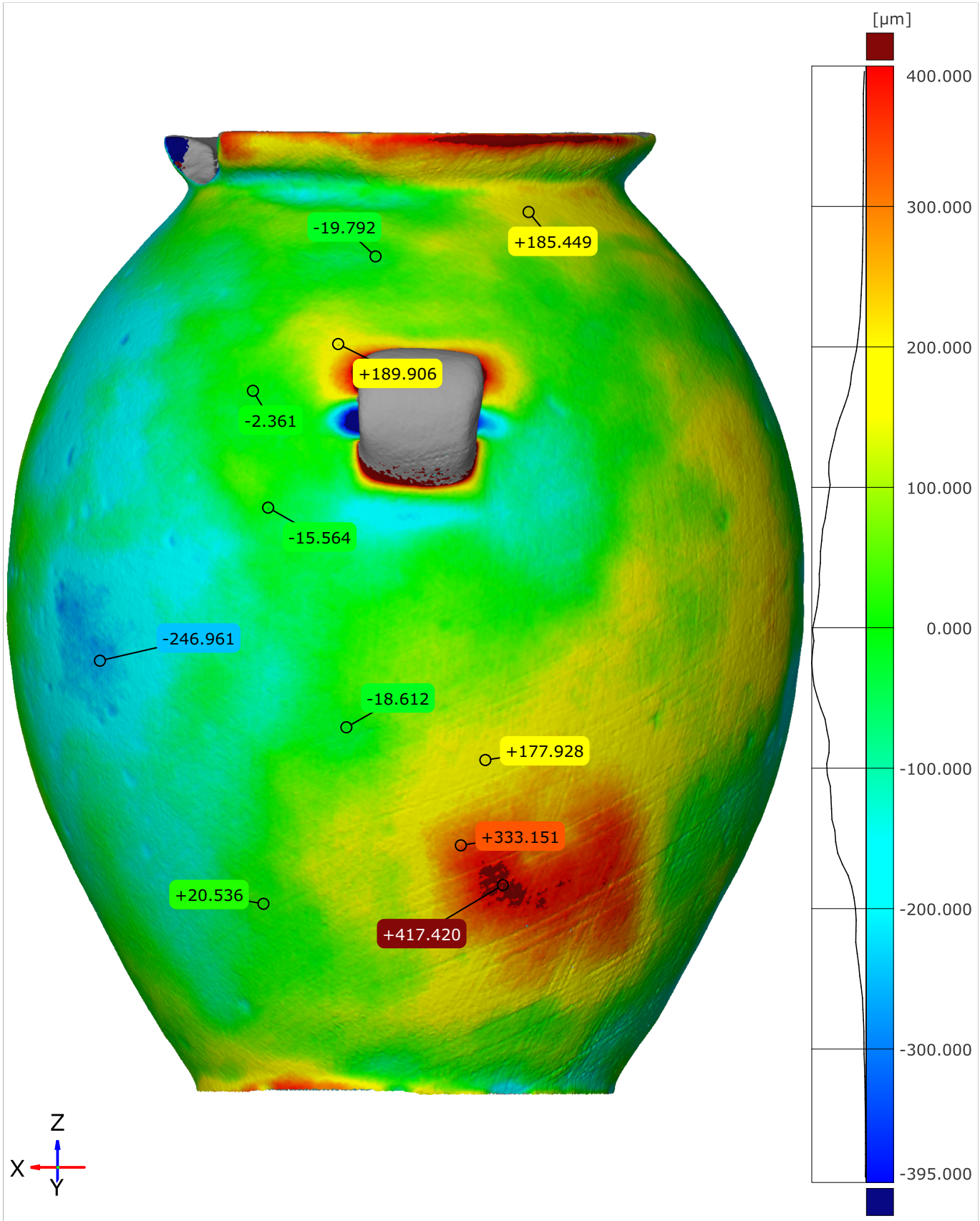
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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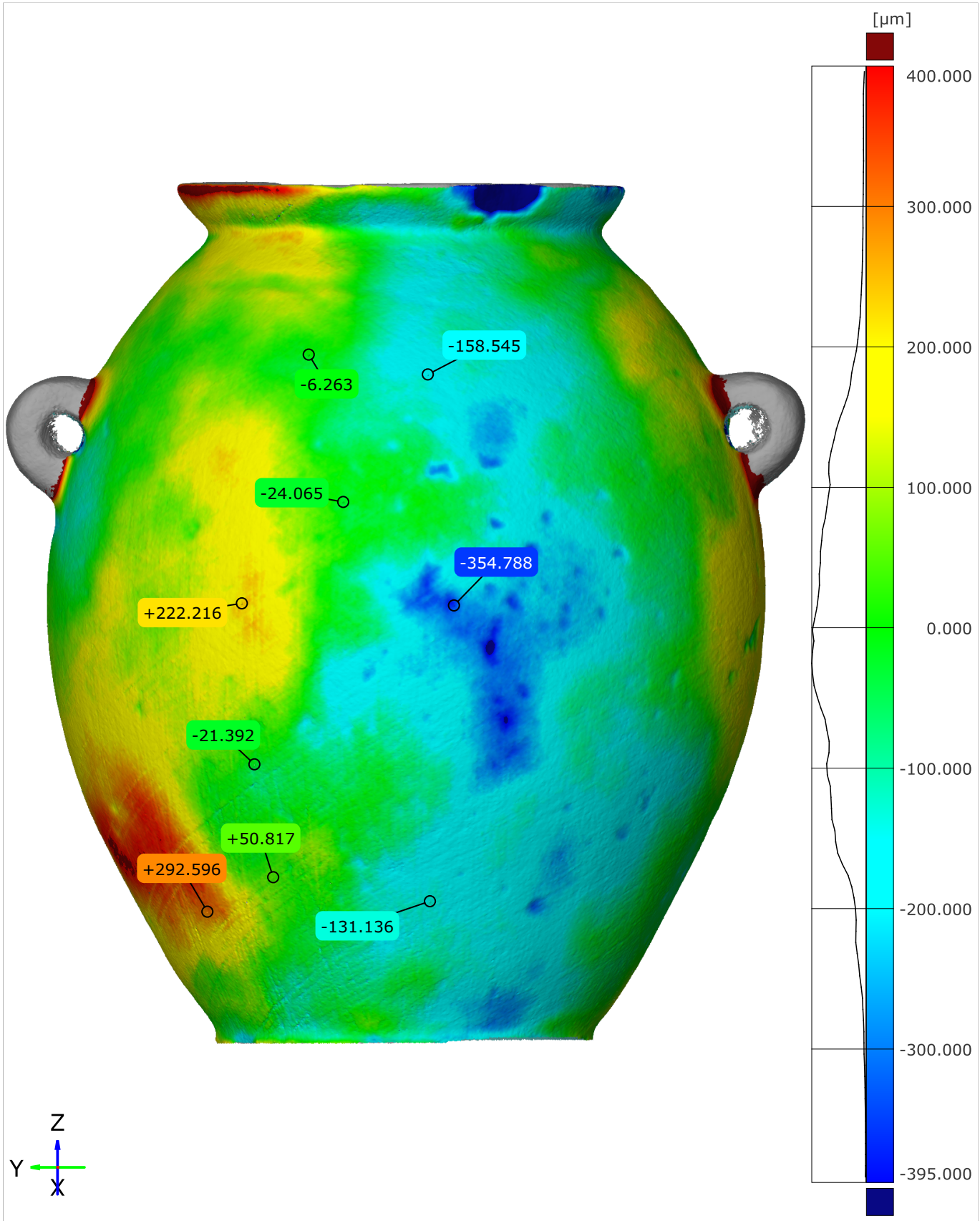
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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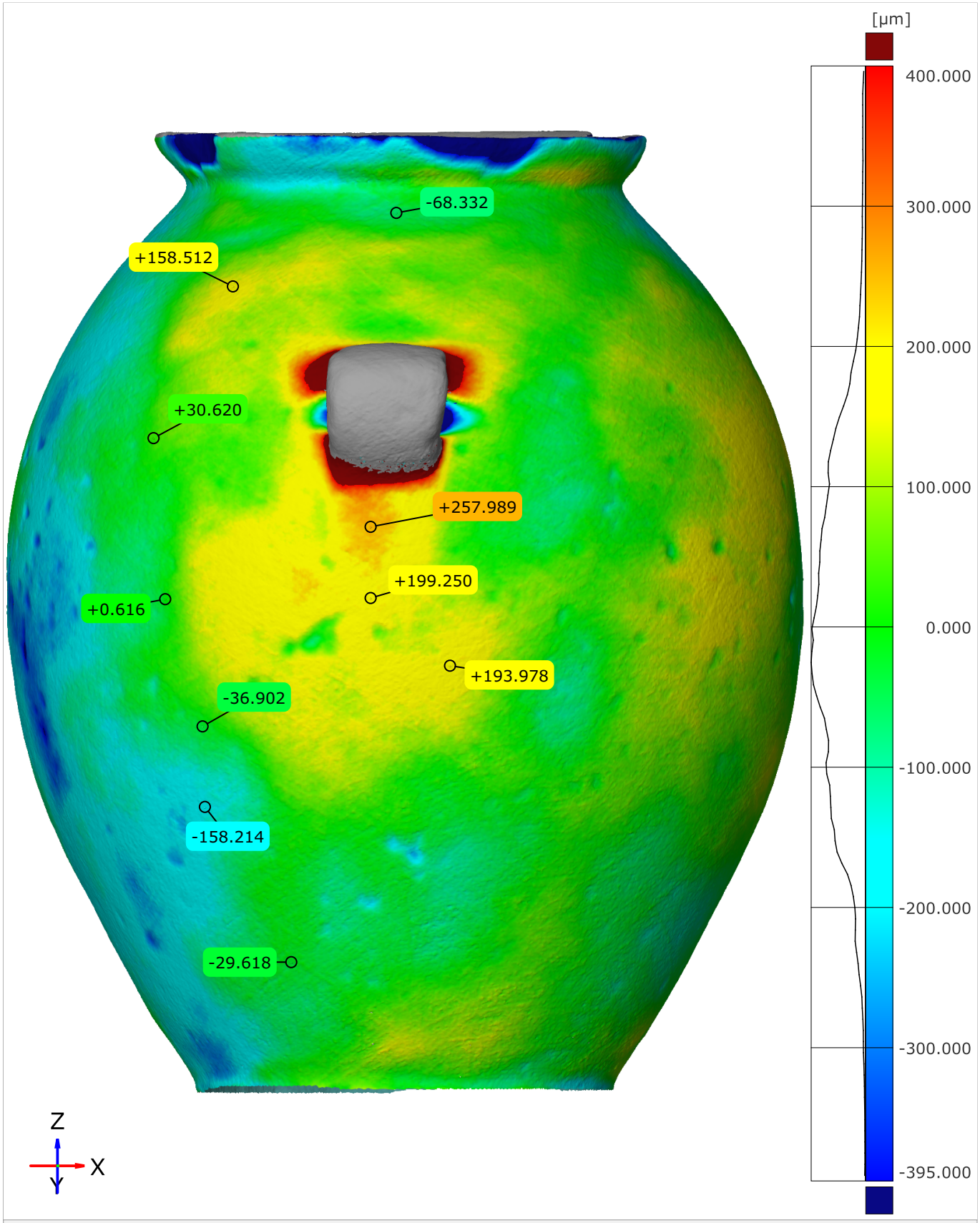
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

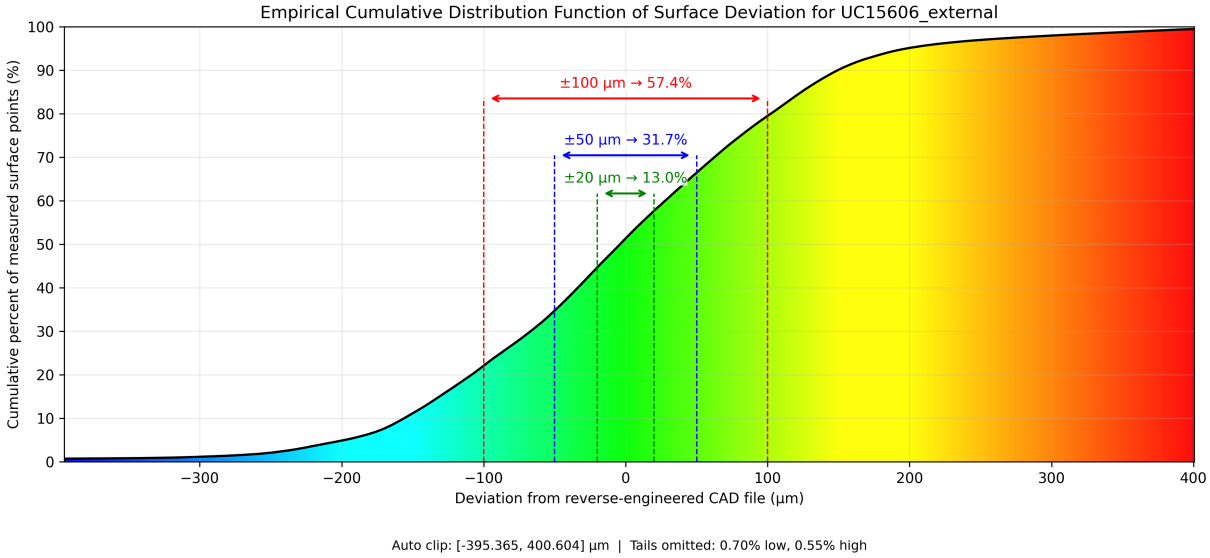

Figure 1.18: Surface Deviation ECDF (External)

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1.4.3 Internal

Circularity

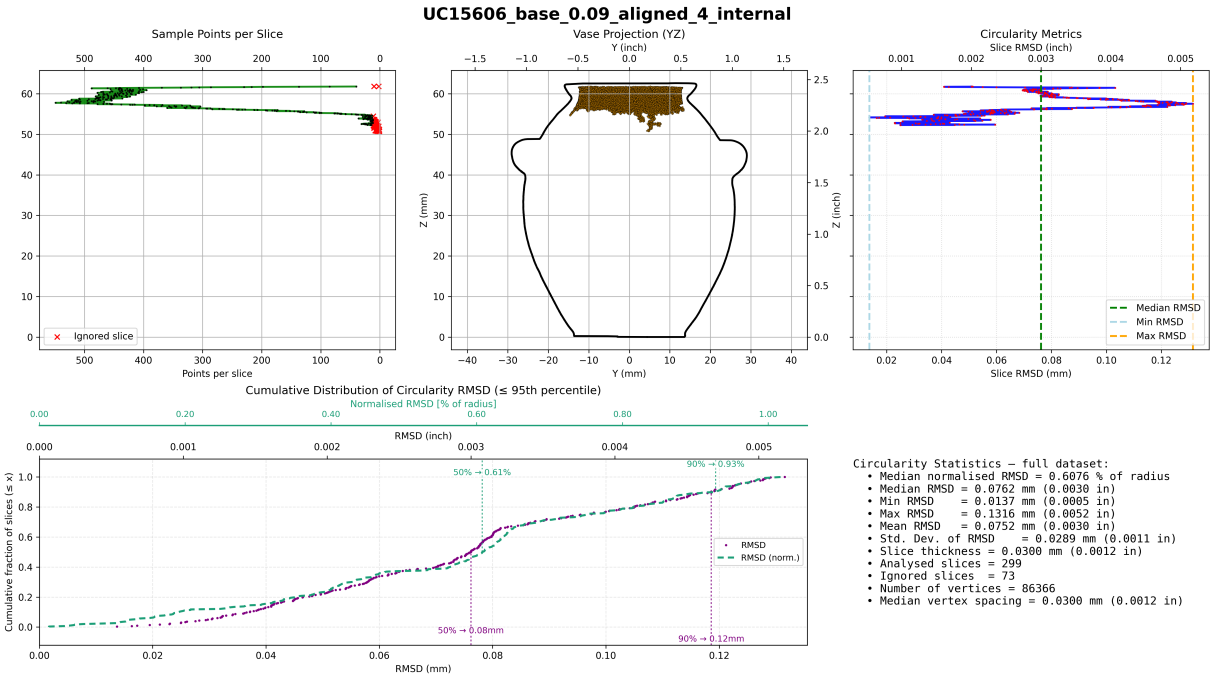

Figure 1.19: Circularity (Internal)

Concentricity

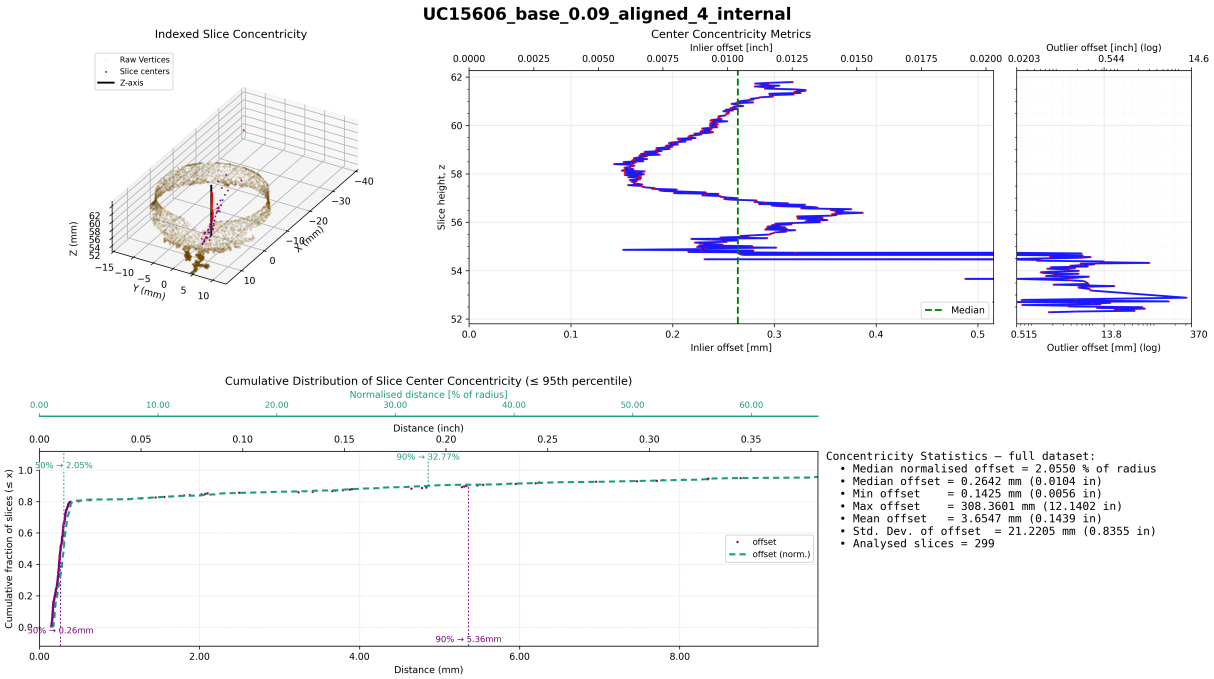

Figure 1.20: Concentricity (Internal)

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1.5 UC15624

1.5.1 Artifact Information



Accession Number	LDUCE-UC15624
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	White-veined grey limestone barrel vase; two cylindrical handles and flat base. Rim chipped.
Publications	- Petrie, William Matthew Flinders, Prehistoric Egypt, pl.XXXIX.69 (presumably)
Production Period	Naqada II
Material	limestone
Dimensions	height: 6.4 cms
Notes	Object Category: vases

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1.5.2 External

Circularity

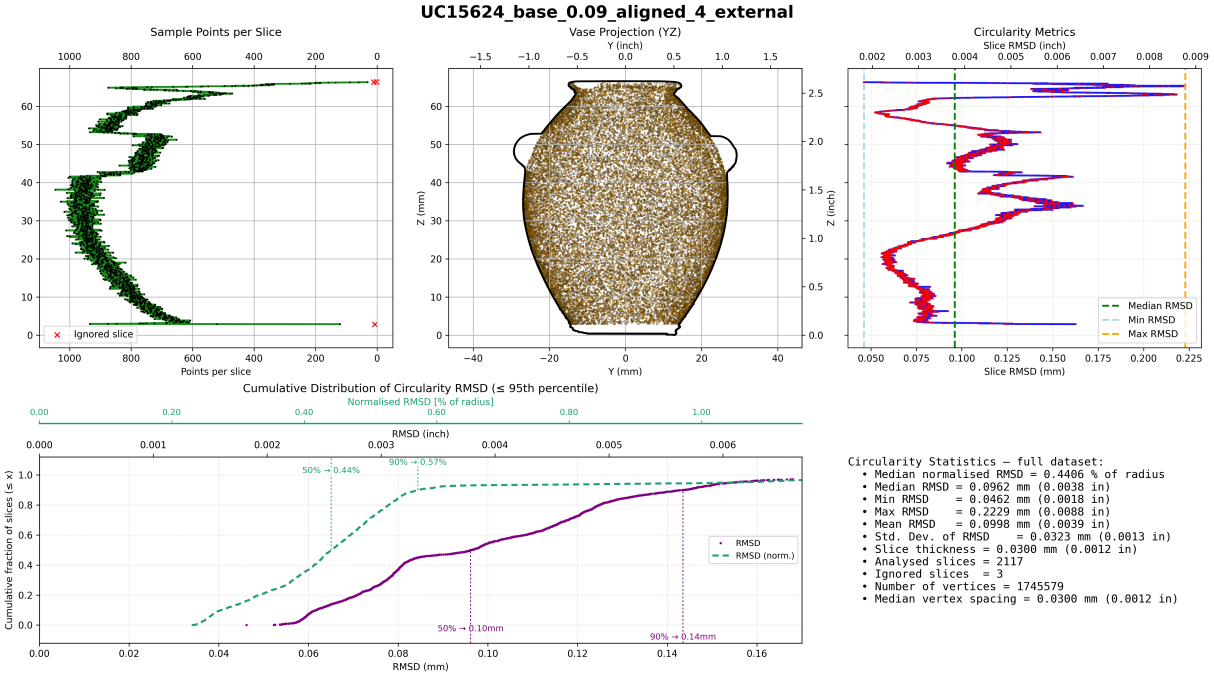

Figure 1.21: Circularity (External)

Concentricity

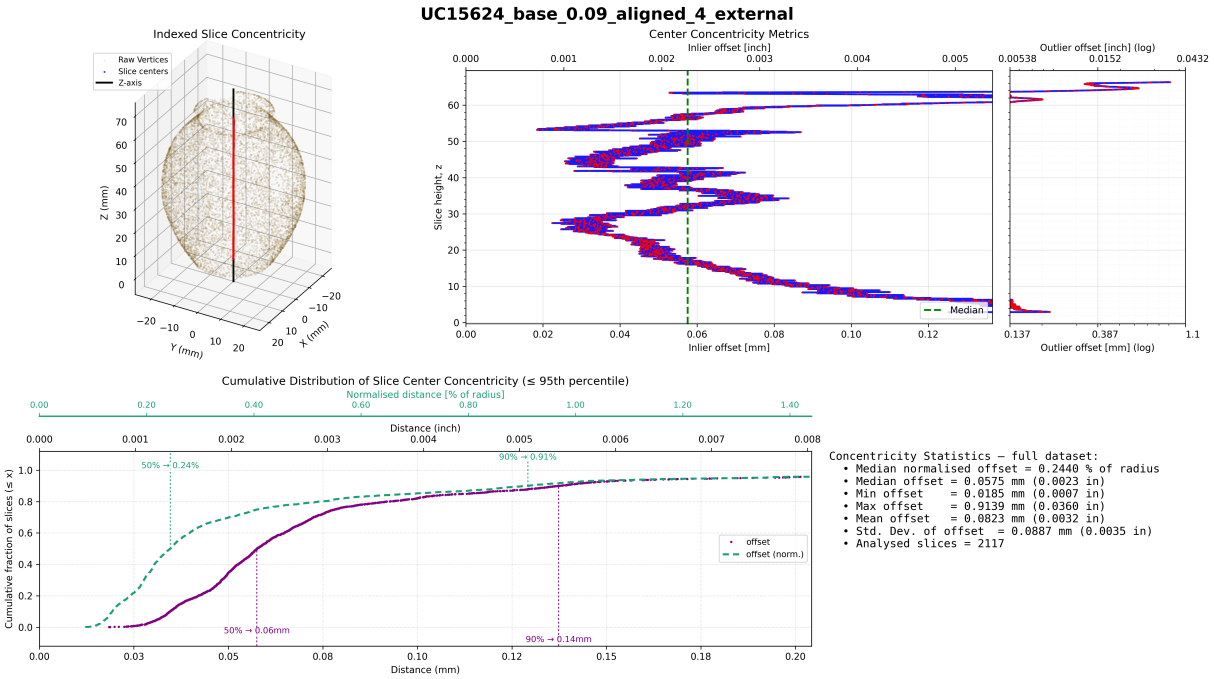

Figure 1.22: Concentricity (External)

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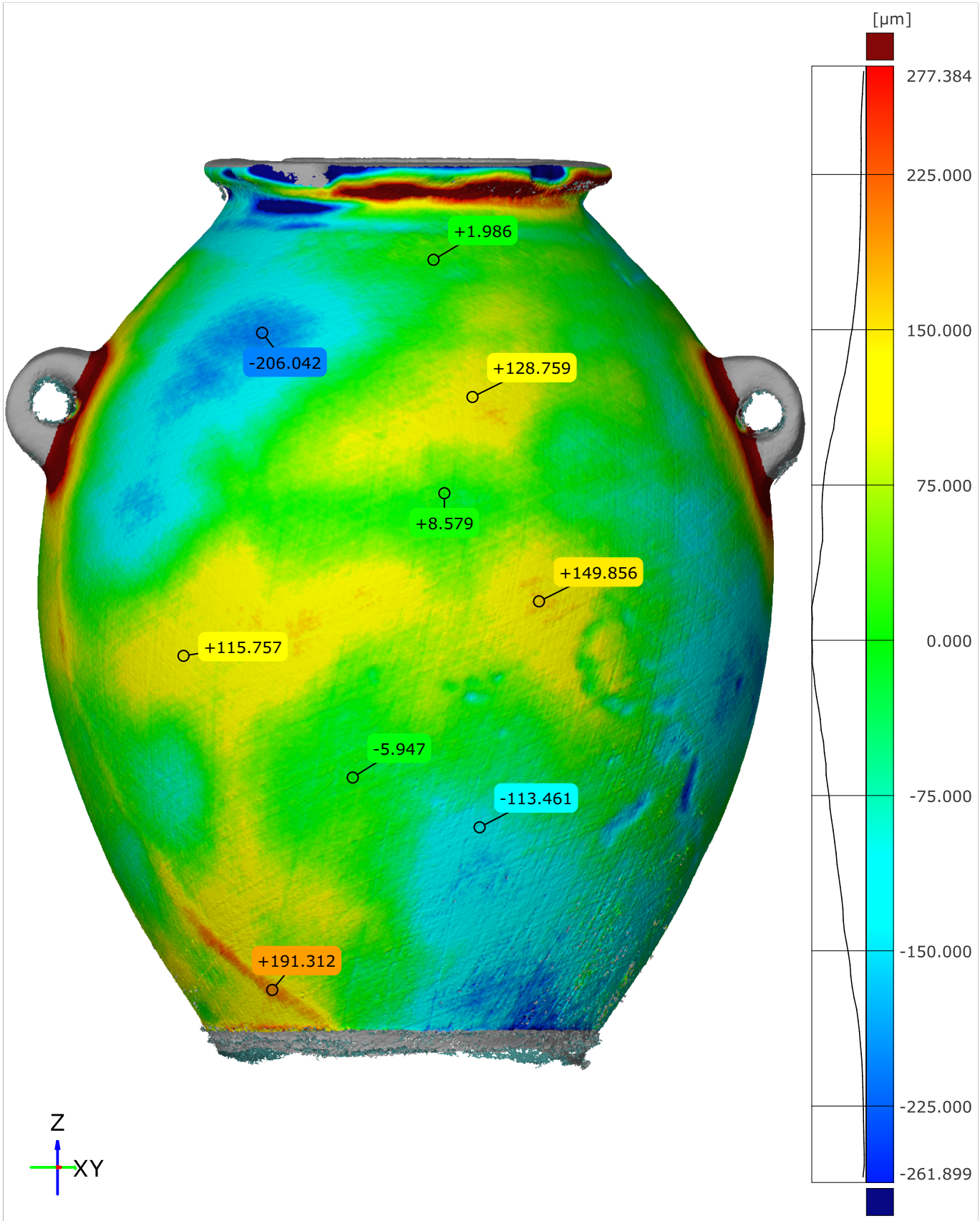
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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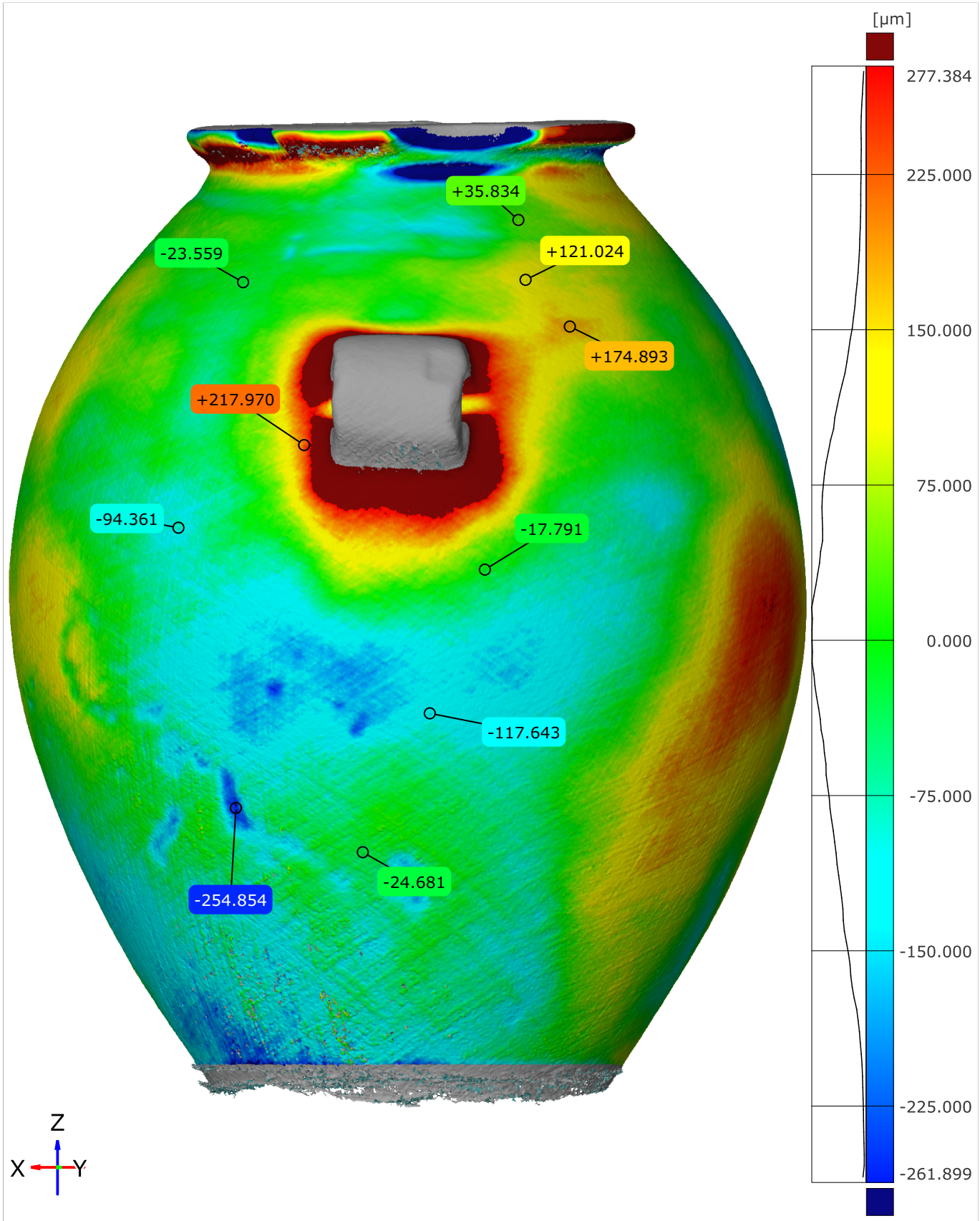
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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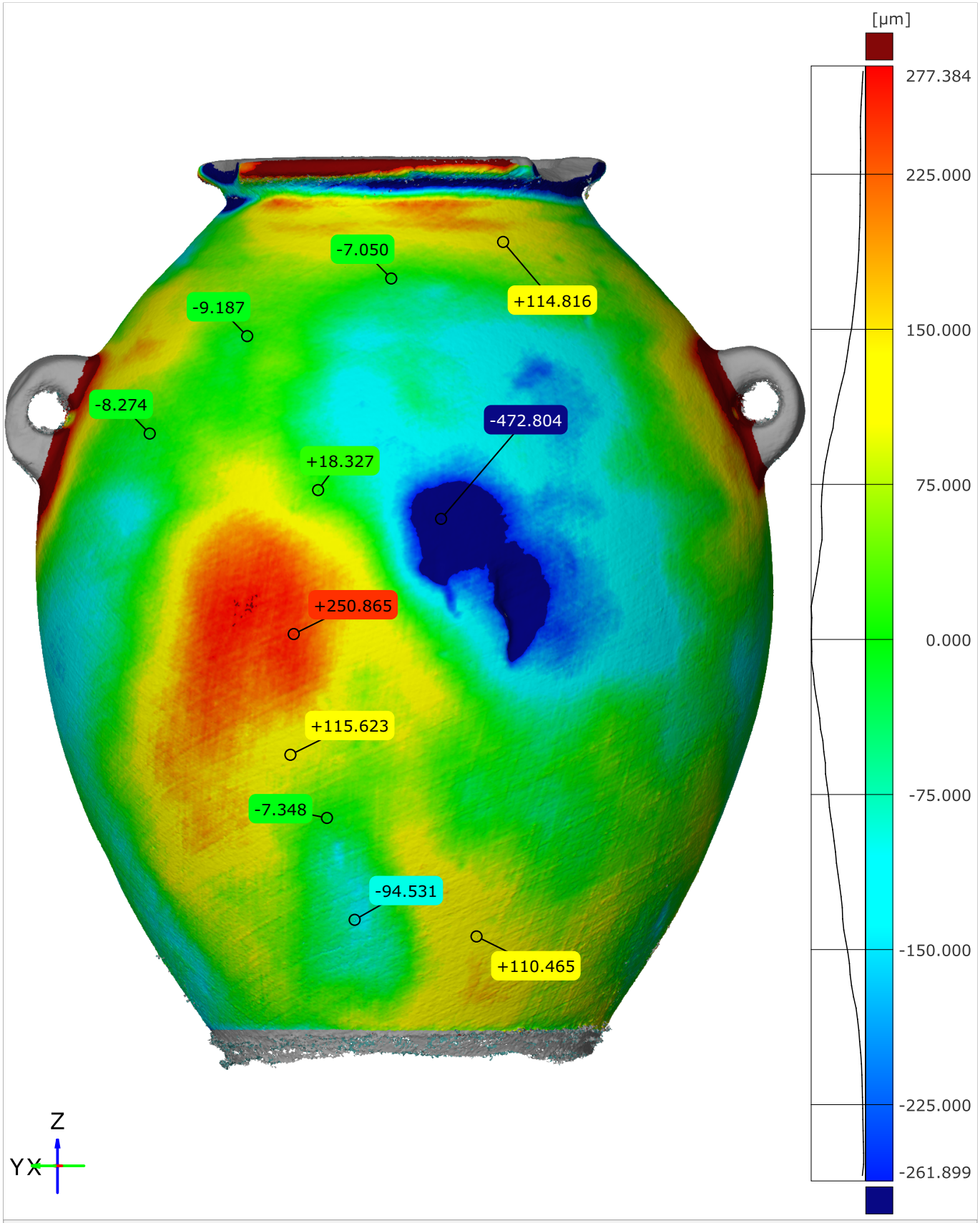
Surface Deviation Heatmap - Side 3



Original alignment — Length unit: µm

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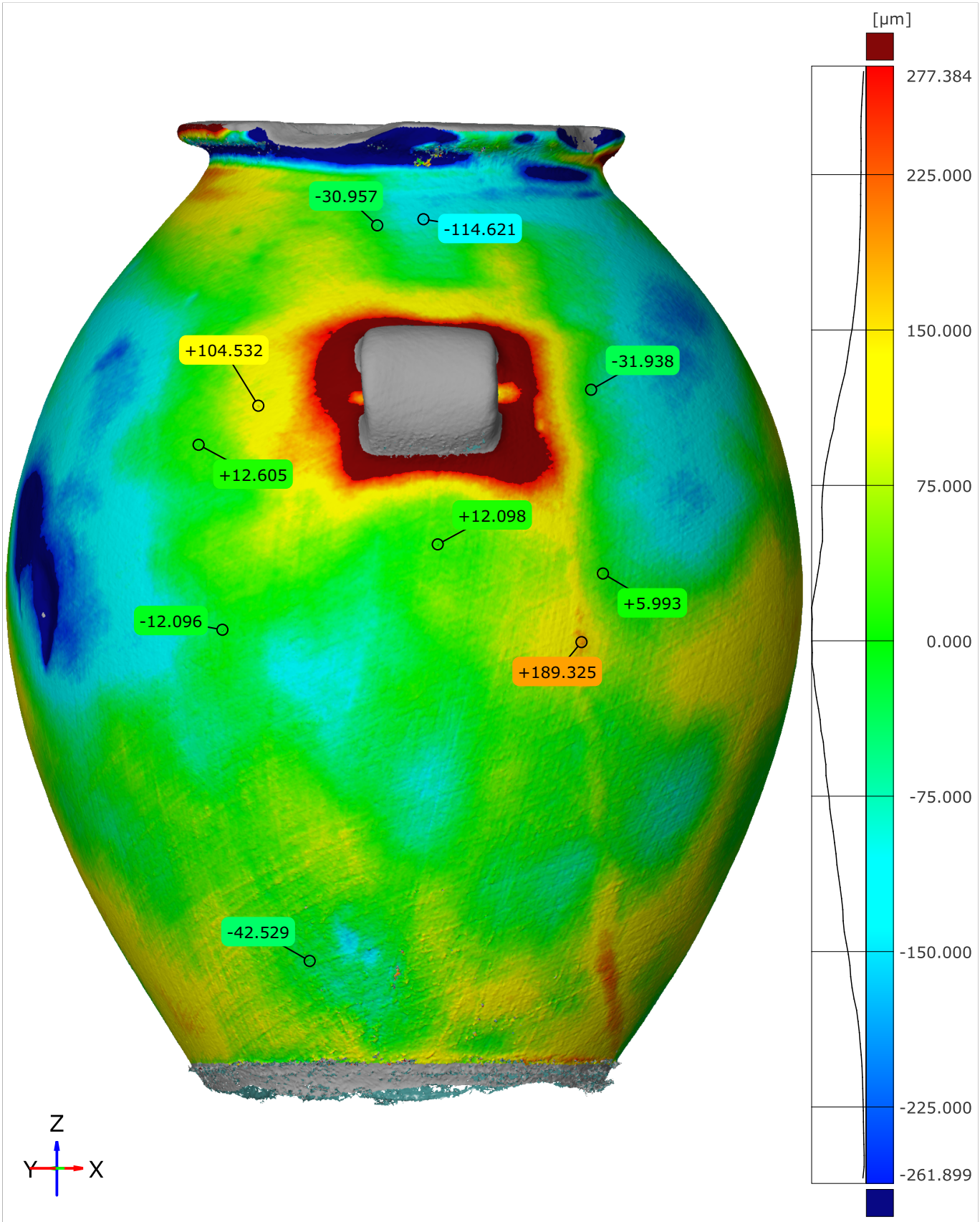
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

Petrie Museum of Egyptian Archaeology UC15624 4/4

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Surface Deviation ECDF

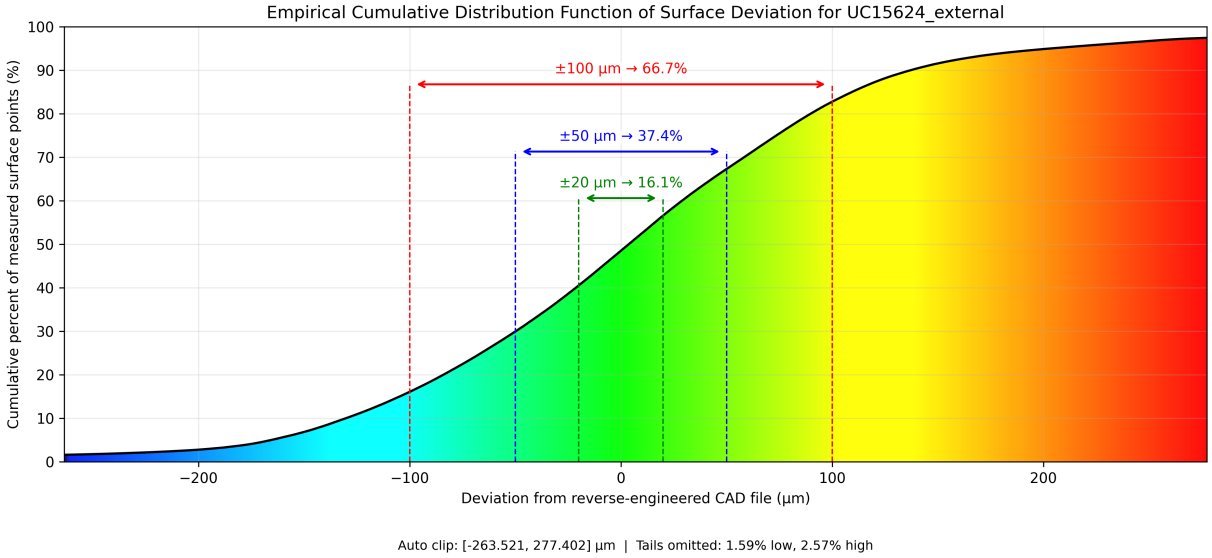

Figure 1.23: Surface Deviation ECDF (External)

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1.5.3 Internal

Circularity

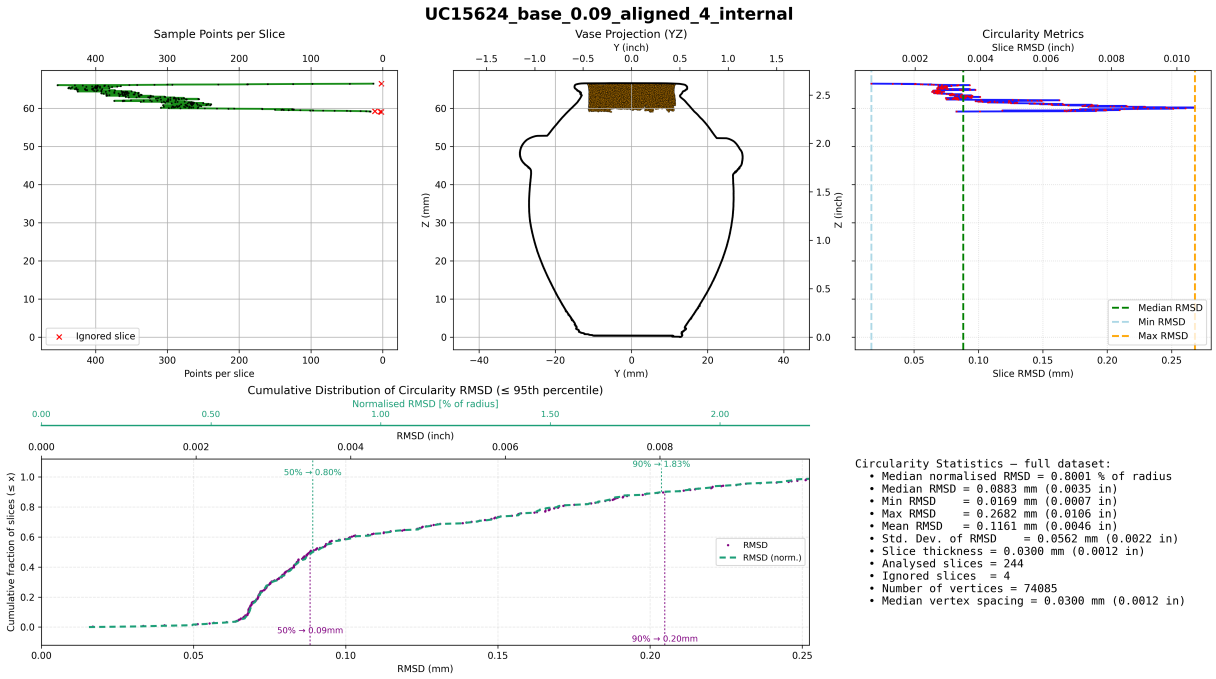

Figure 1.24: Circularity (Internal)

Concentricity

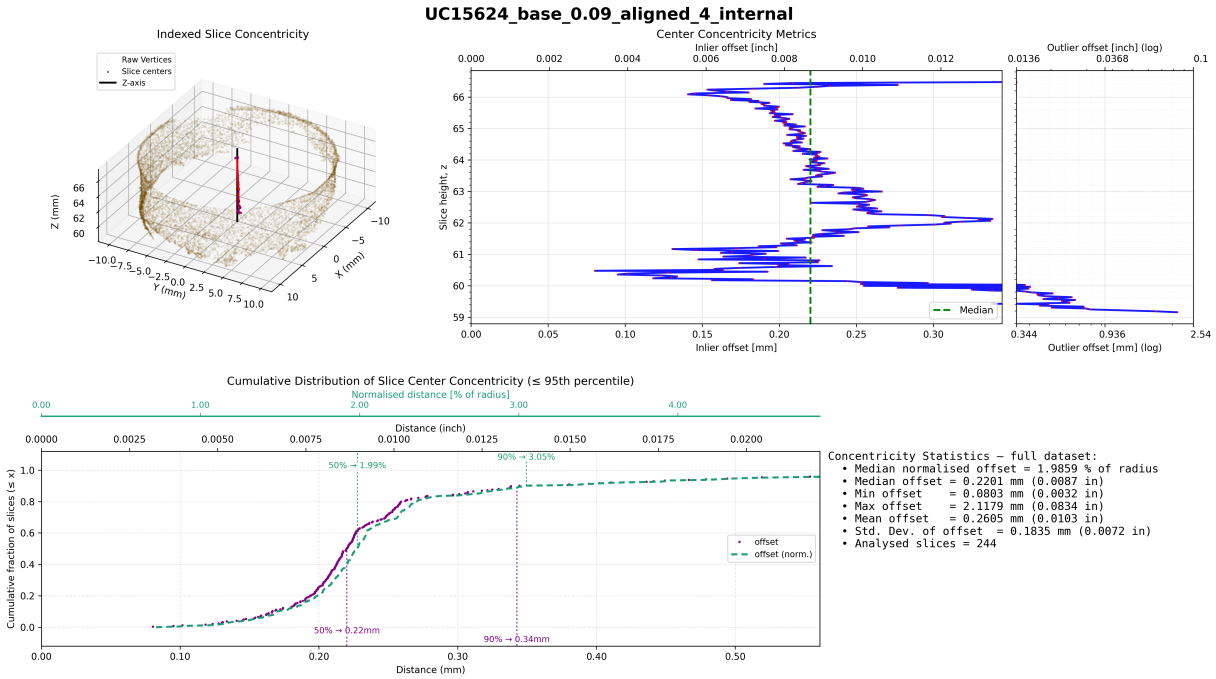

Figure 1.25: Concentricity (Internal)

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1.6 UC15724

1.6.1 Artifact Information



Accession Number	LDUCE-UC15724
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Basalt cylinder vase, tapering at base, rim damaged.
Publications	- Petrie, William Matthew Flinders, Prehistoric Egypt, pl.XLII.190 - Mallory, Leanne, Predynastic and First Dynasty Egyptian Basalt Vessels
Production Period	Predynastic Period
Material	basalt
Dimensions	height: 6.5 cms
Notes	Object Category: vases

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1.6.2 External

Circularity

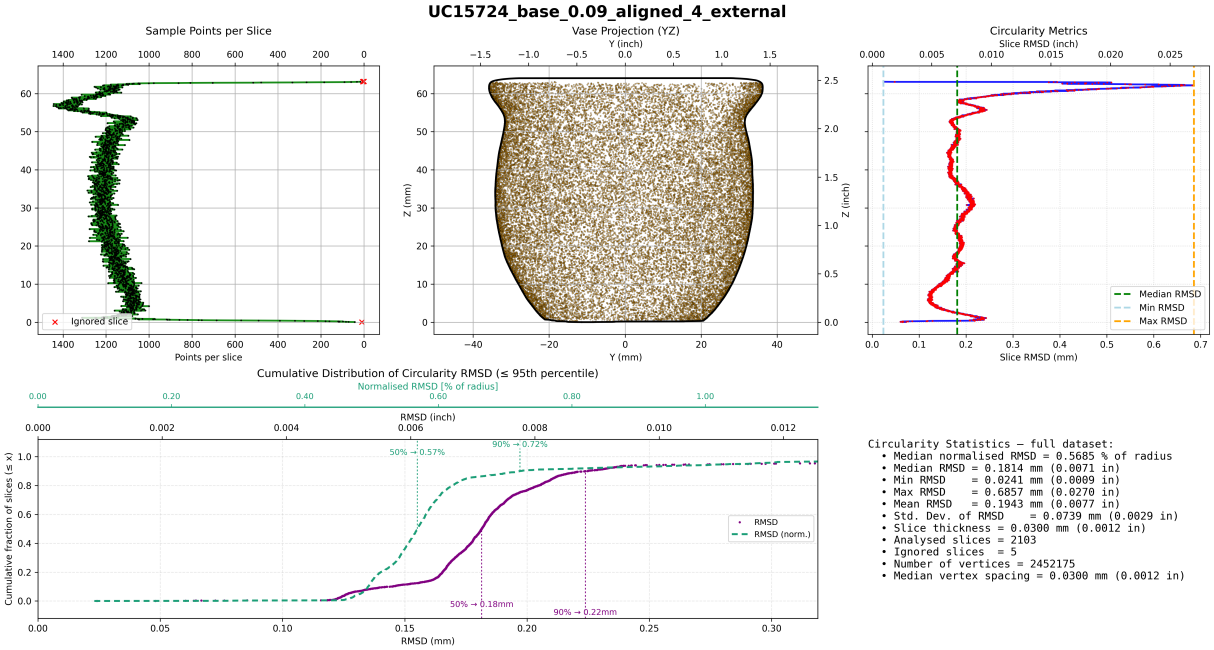

Figure 1.26: Circularity (External)

Concentricity

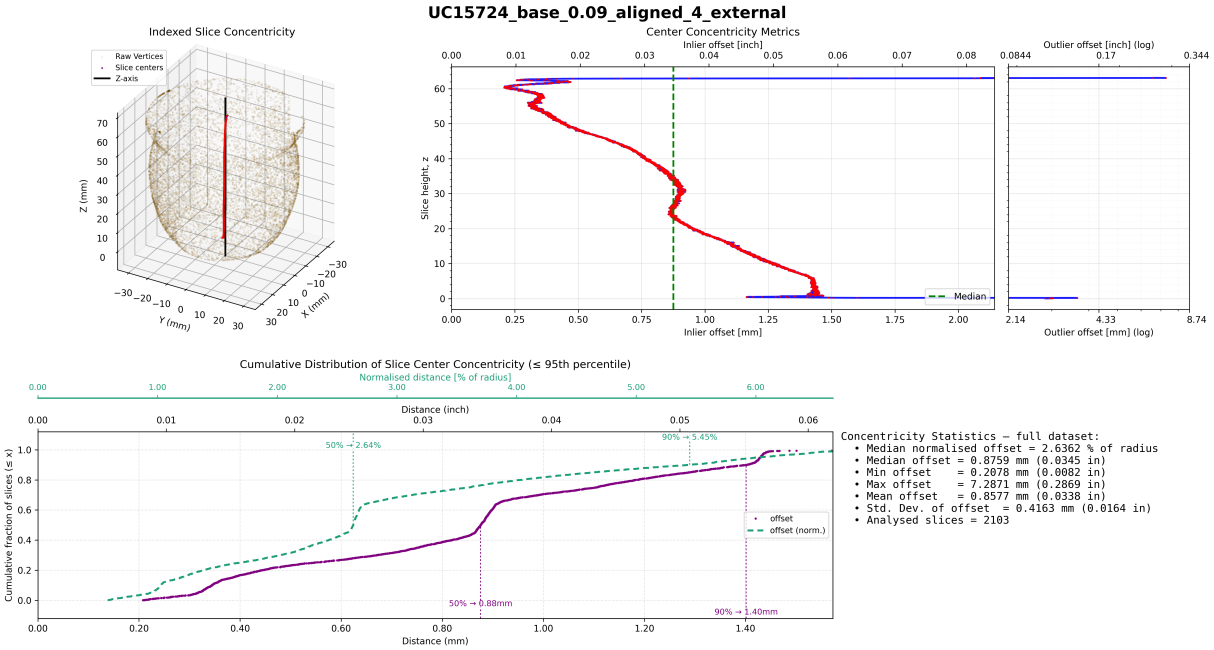

Figure 1.27: Concentricity (External)

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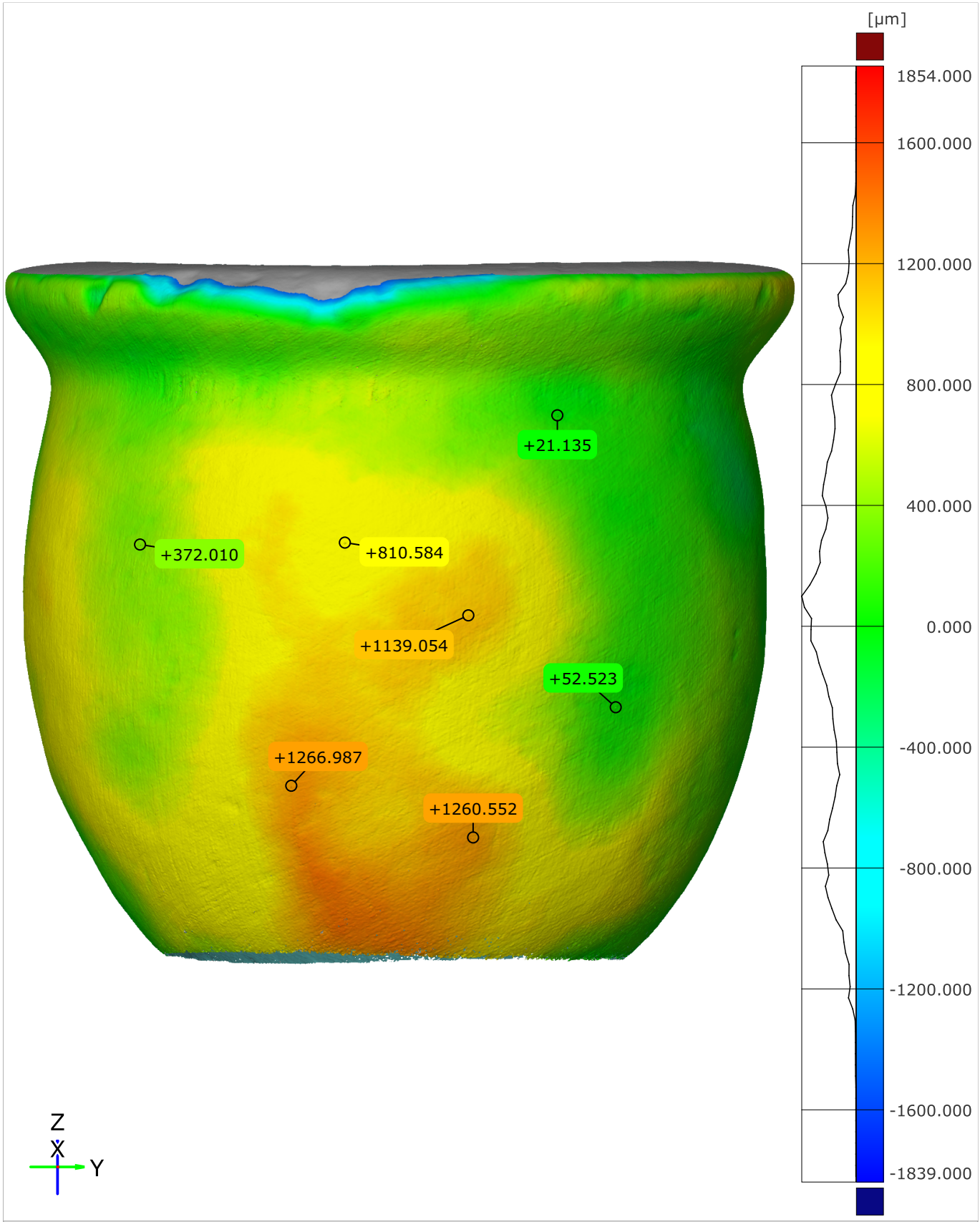
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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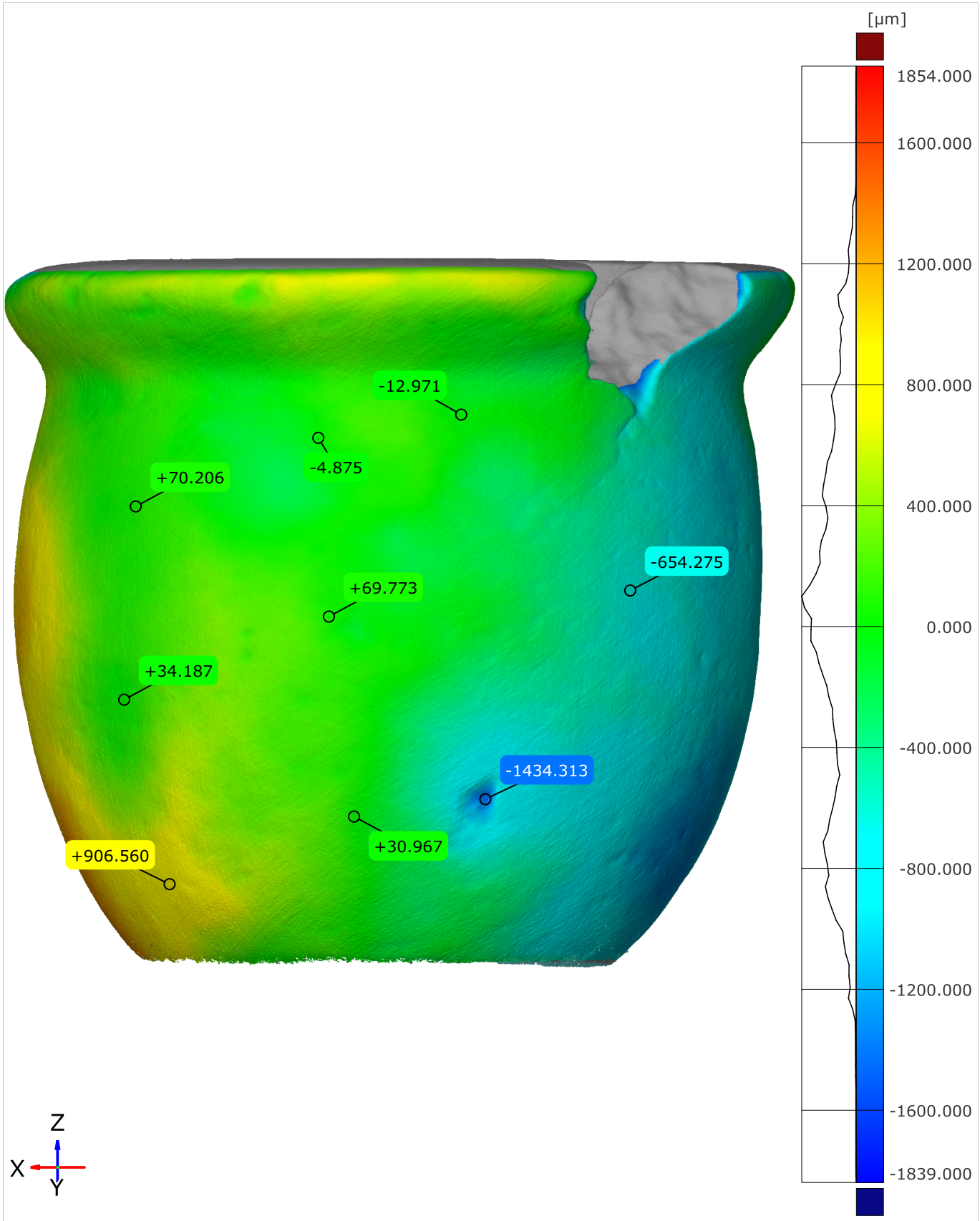
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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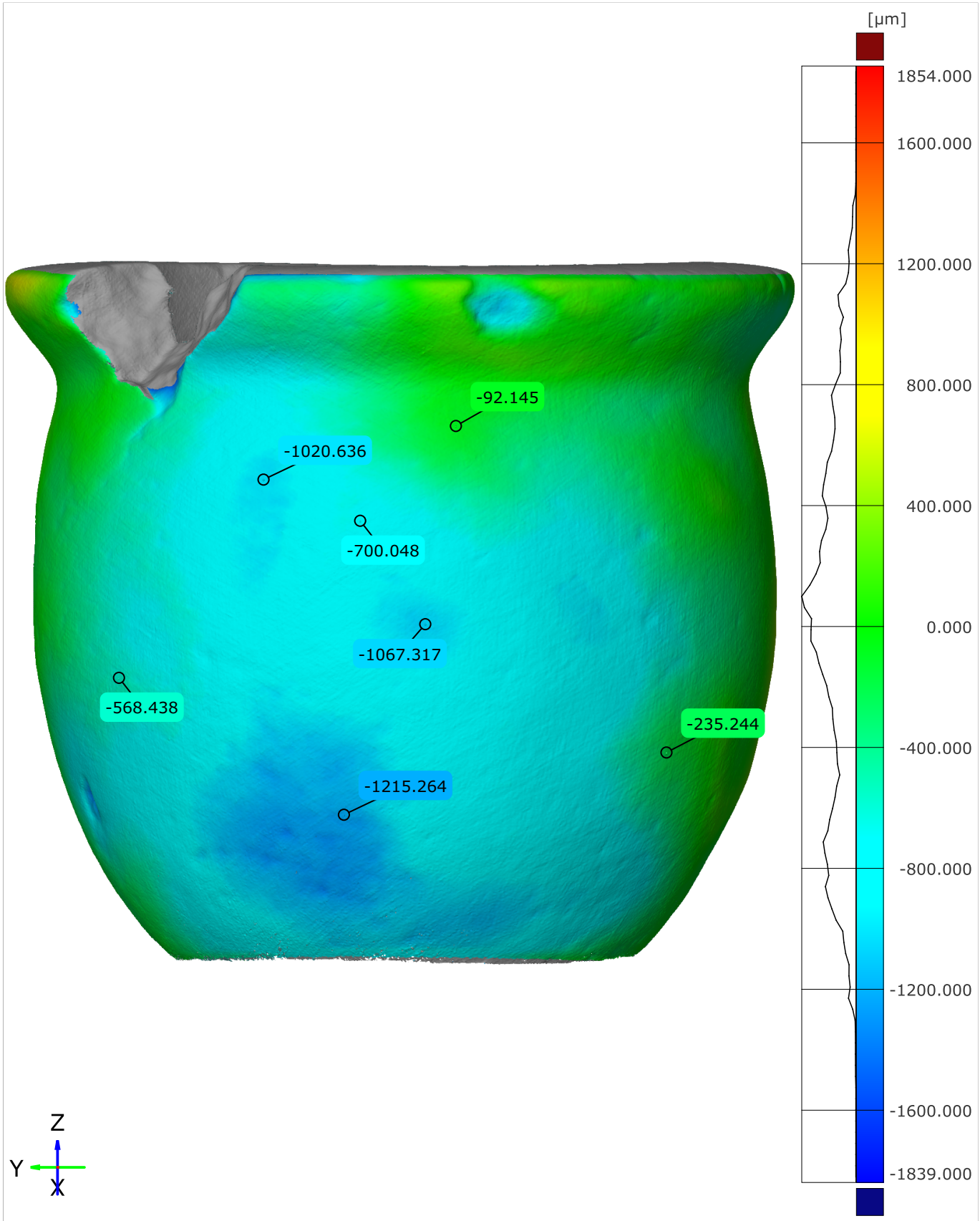
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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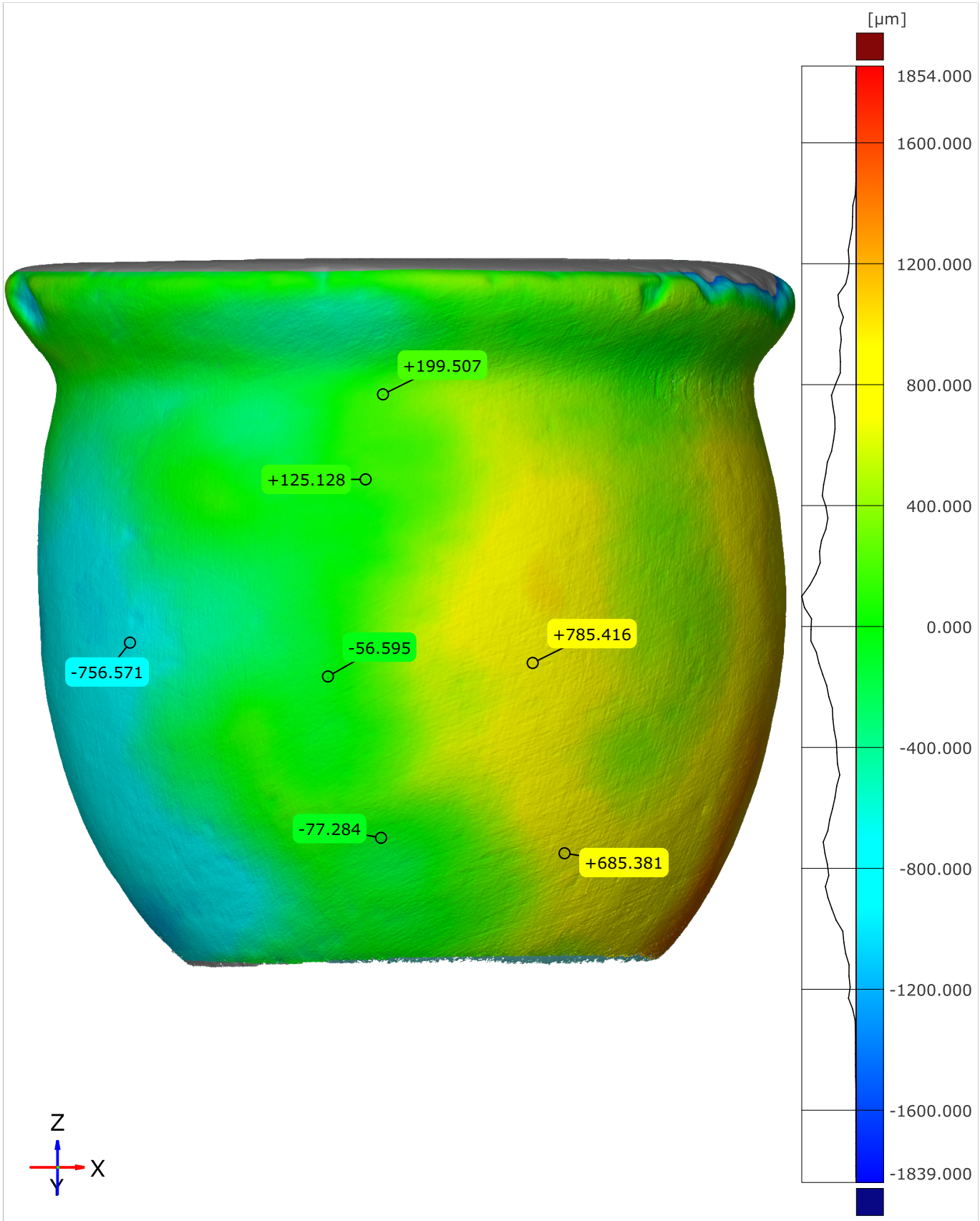
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

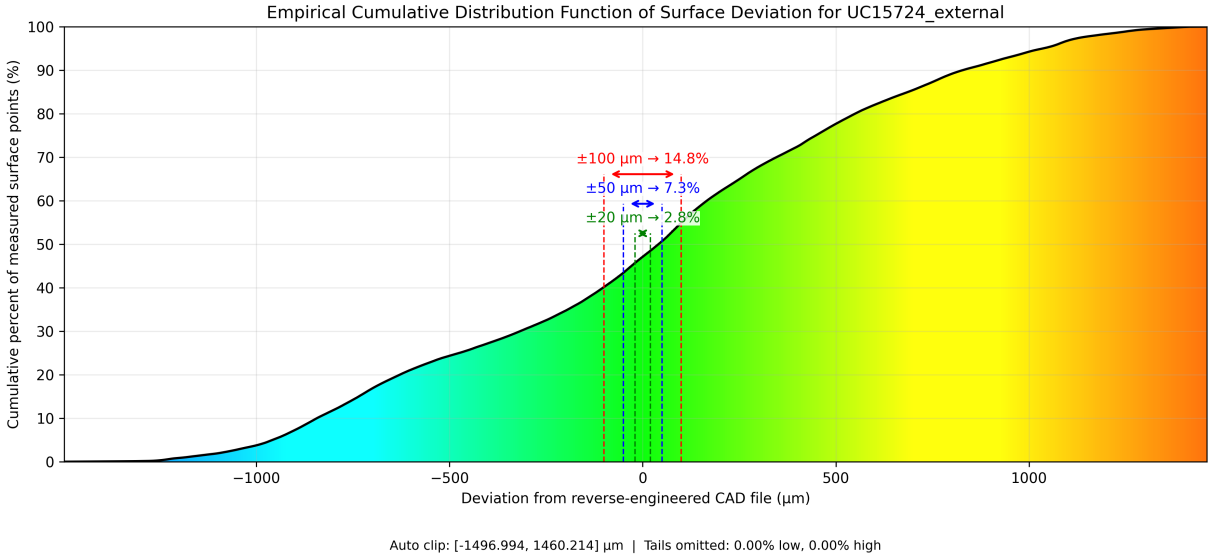

Figure 1.28: Surface Deviation ECDF (External)

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1.6.3 Internal

Circularity

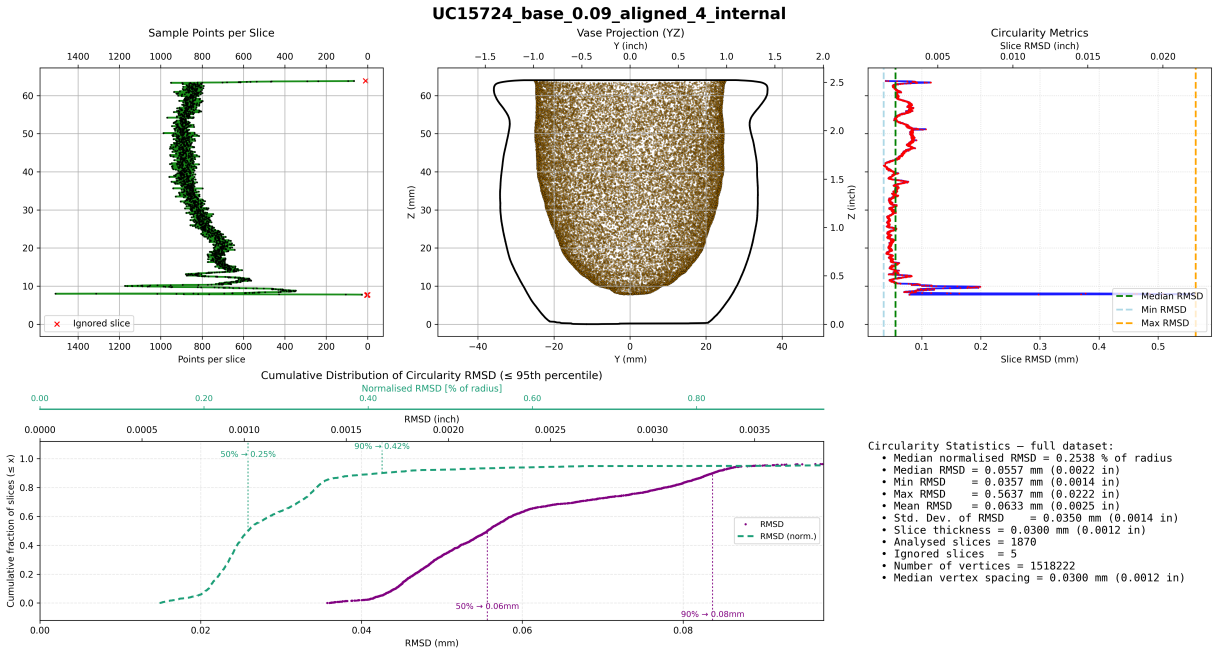

Figure 1.29: Circularity (Internal)

Concentricity

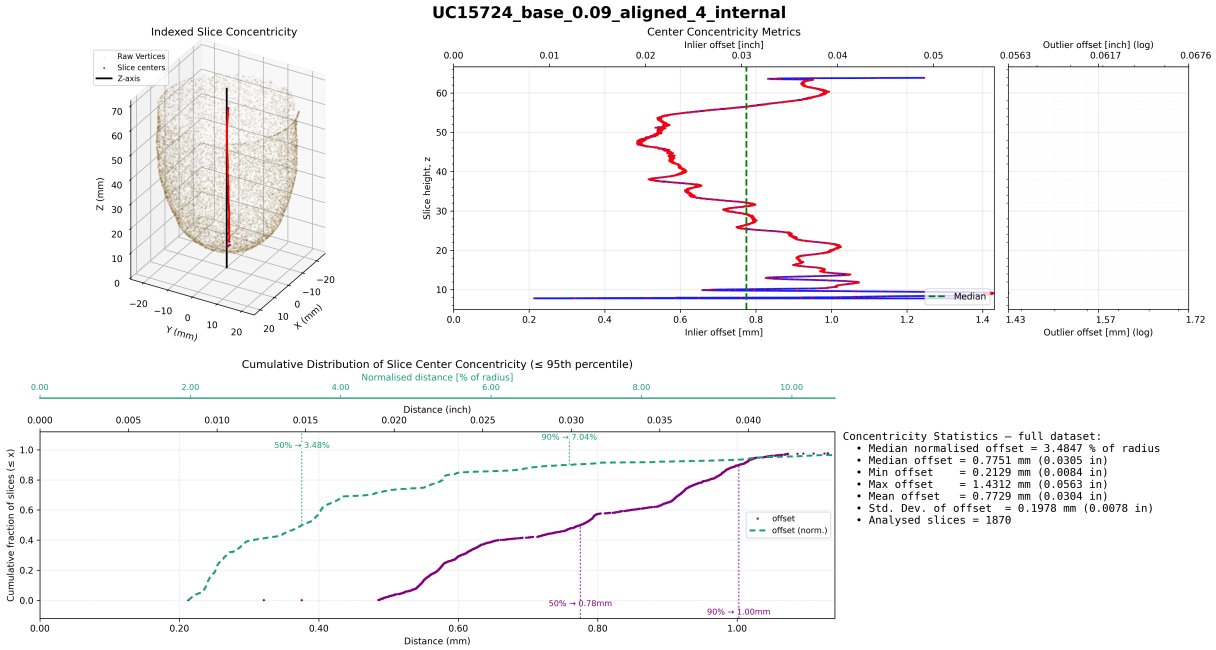

Figure 1.30: Concentricity (Internal)

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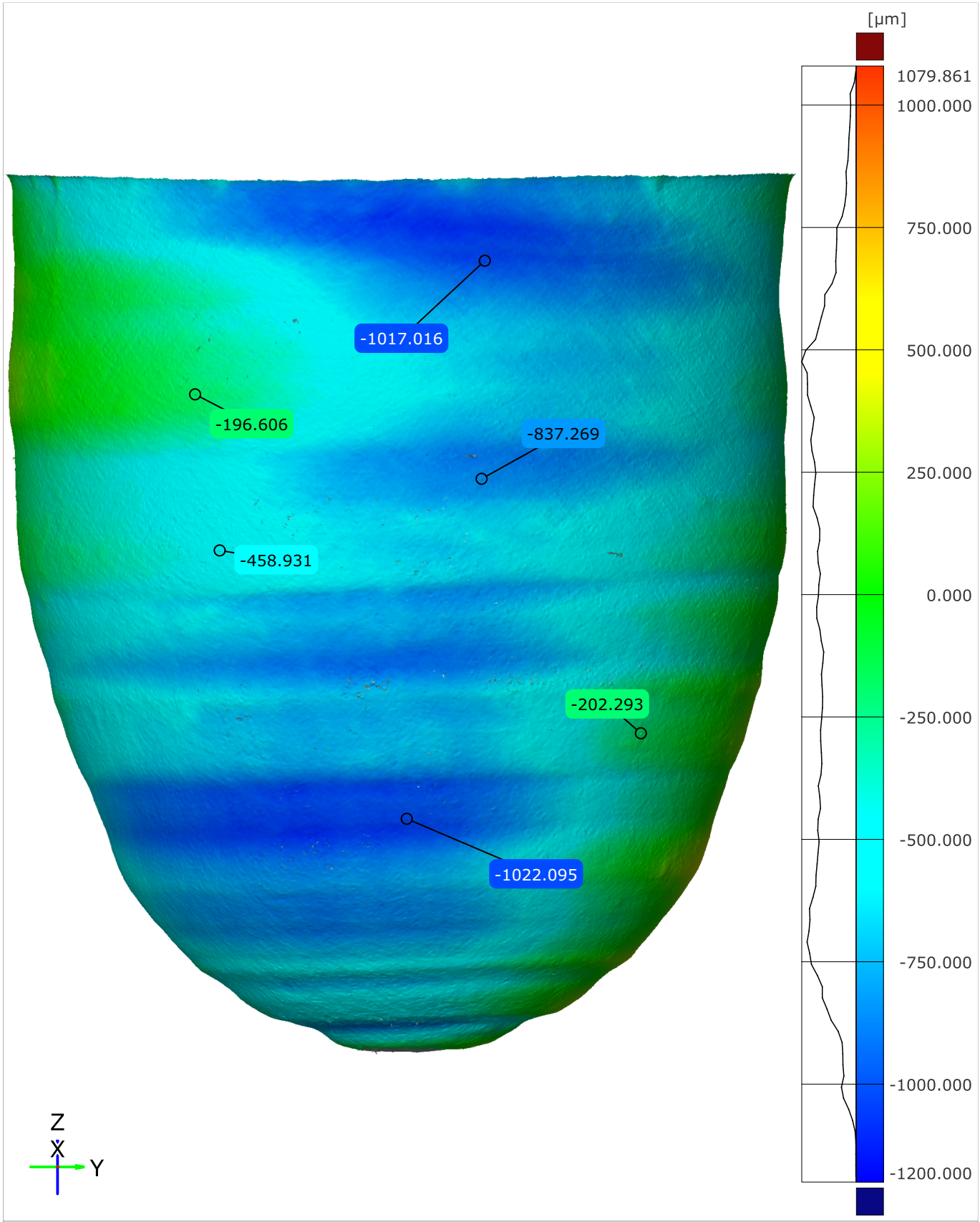
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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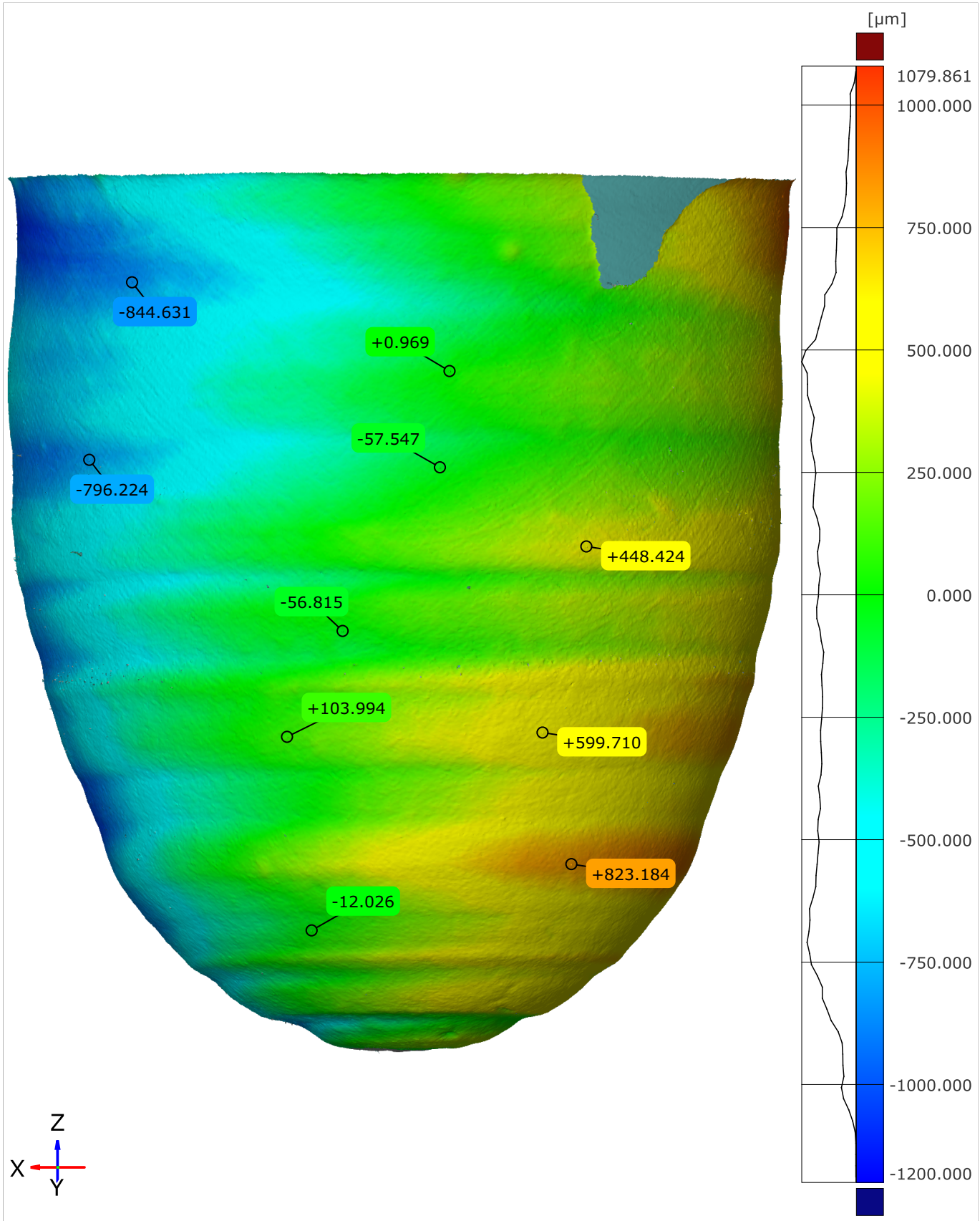
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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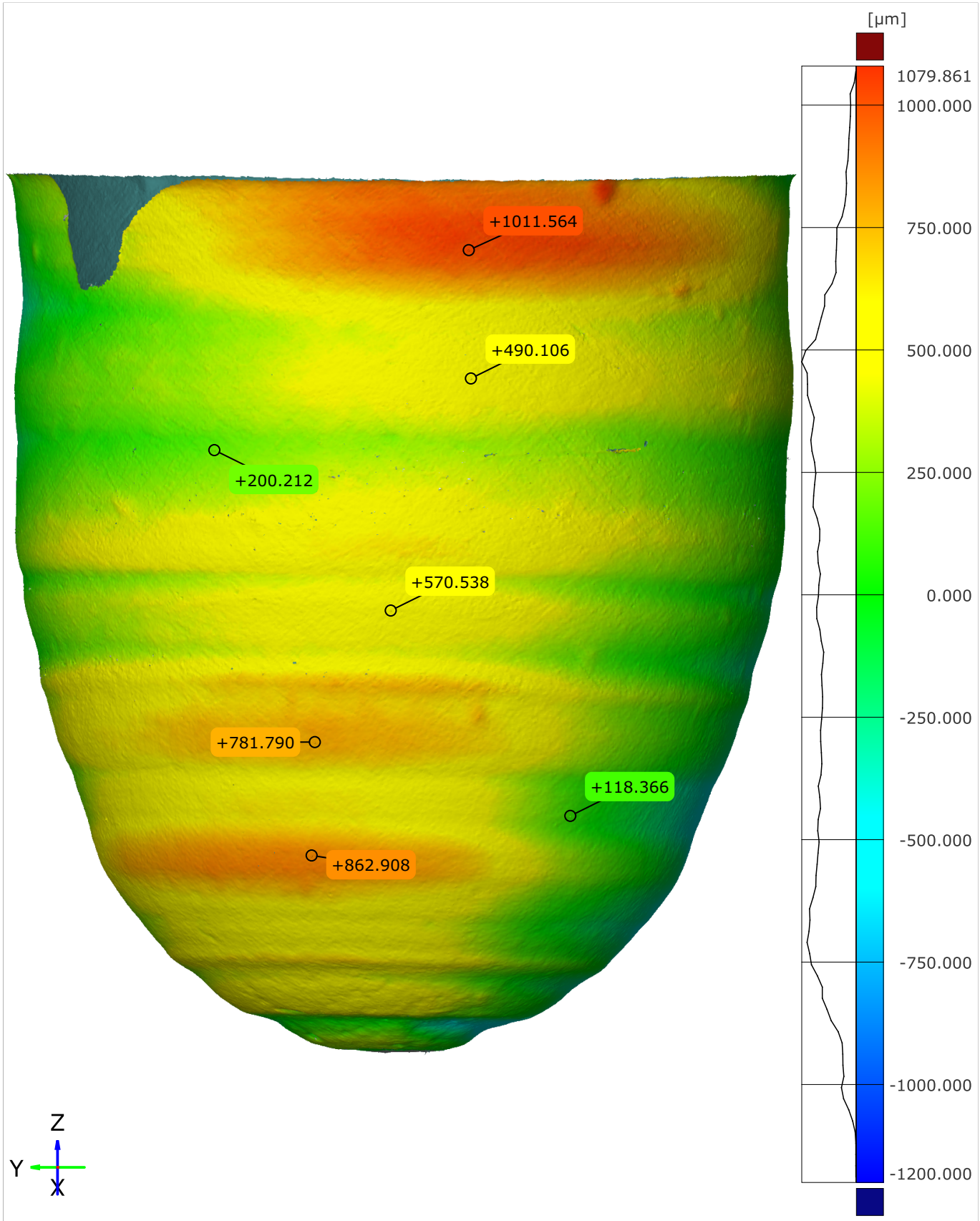
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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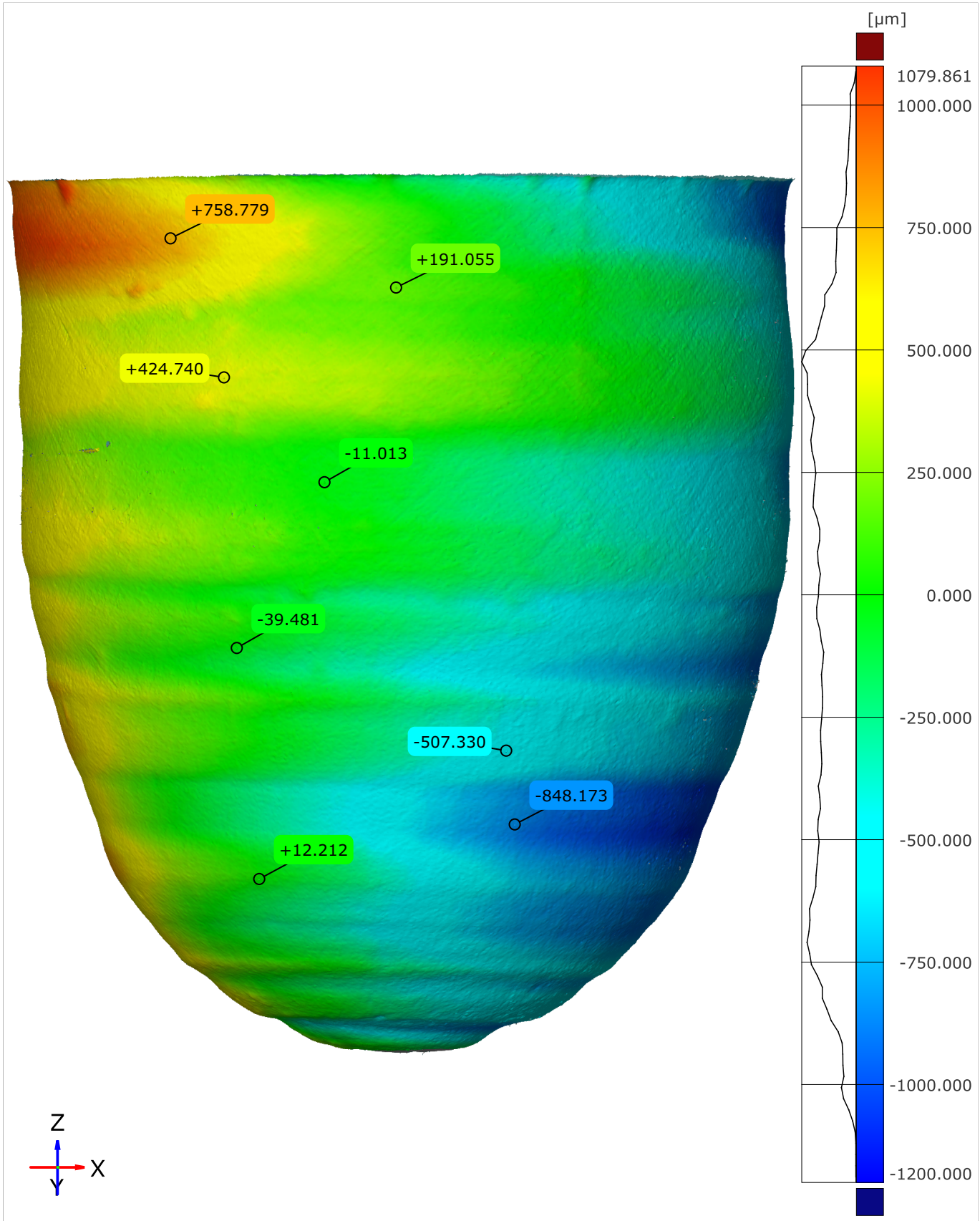
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

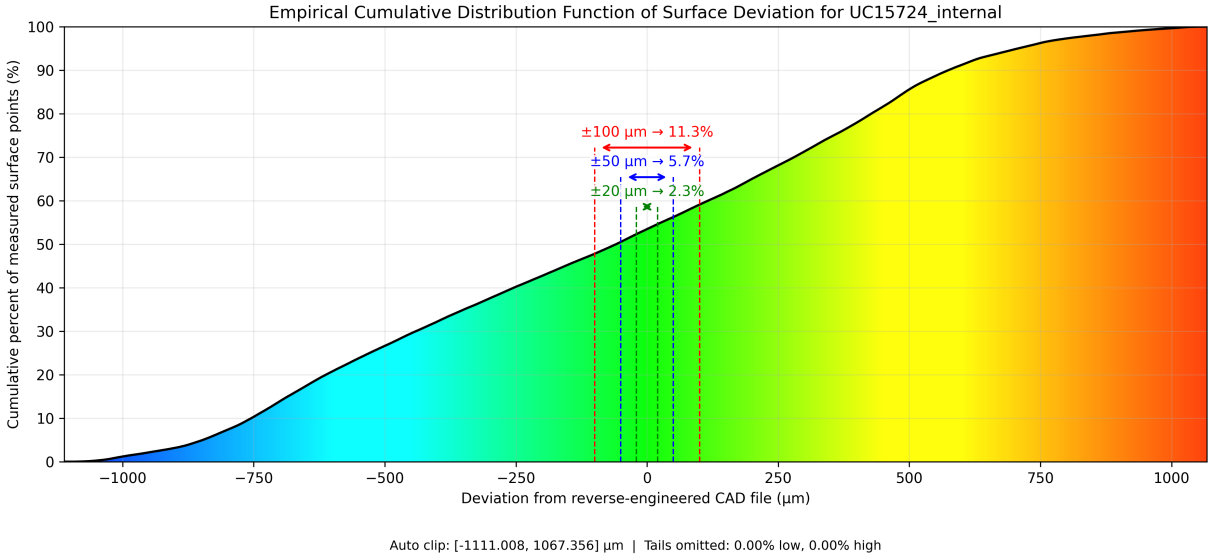

Figure 1.31: Surface Deviation ECDF (Internal)

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1.7 UC15730

1.7.1 Artifact Information



Accession Number	LDUCE-UC15730
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Black and white granite squat brim vase. Part upper missing.
Publications	- Petrie, William Matthew Flinders, Prehistoric Egypt, p.36, pl.XLII.200
Production Period	(possible) Early Dynastic Period
Material	granite
Dimensions	height: 6.5 cms
Notes	Object Category: vases

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1.7.2 External

Circularity

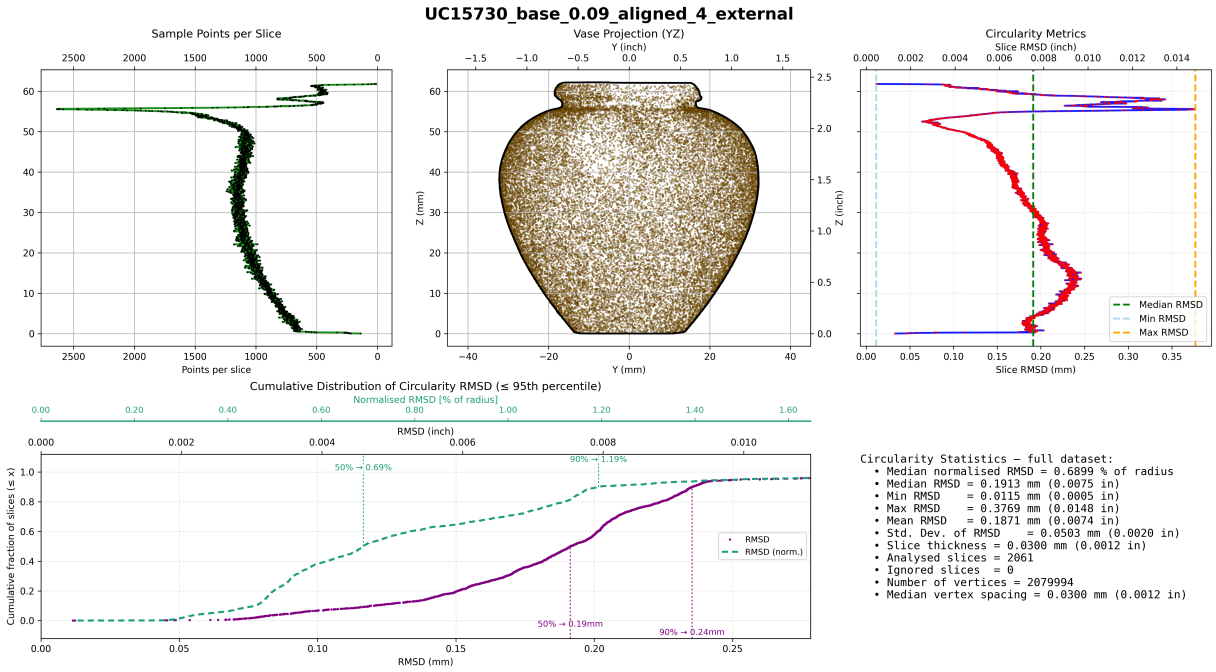

Figure 1.32: Circularity (External)

Concentricity

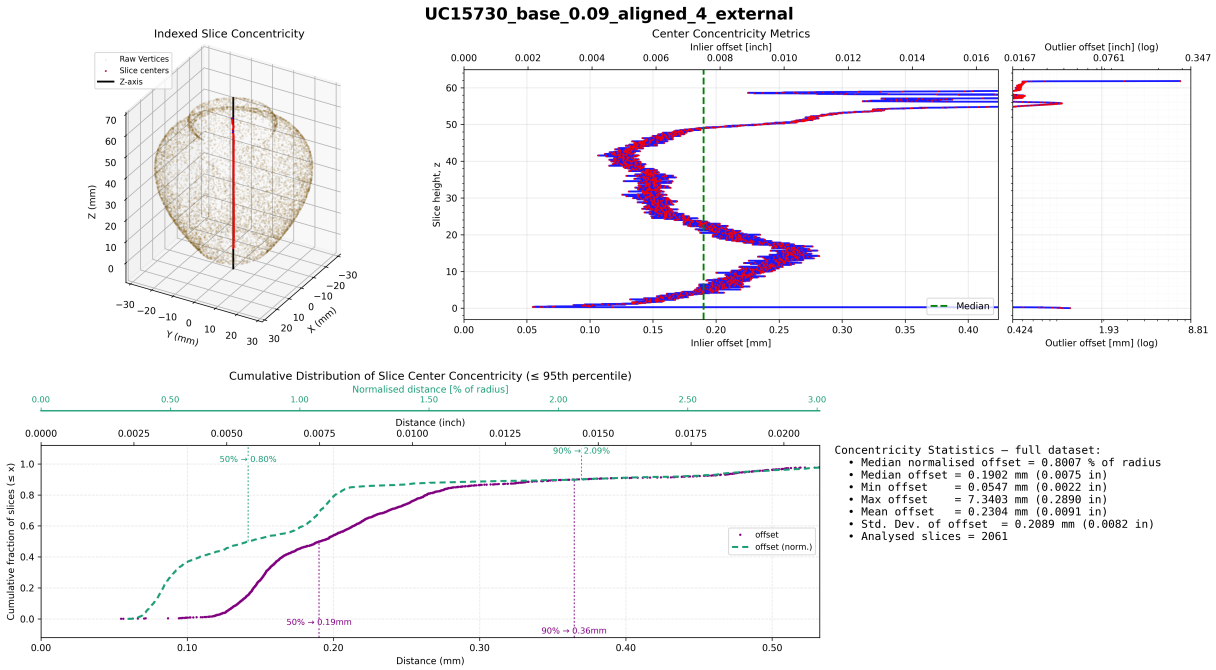

Figure 1.33: Concentricity (External)

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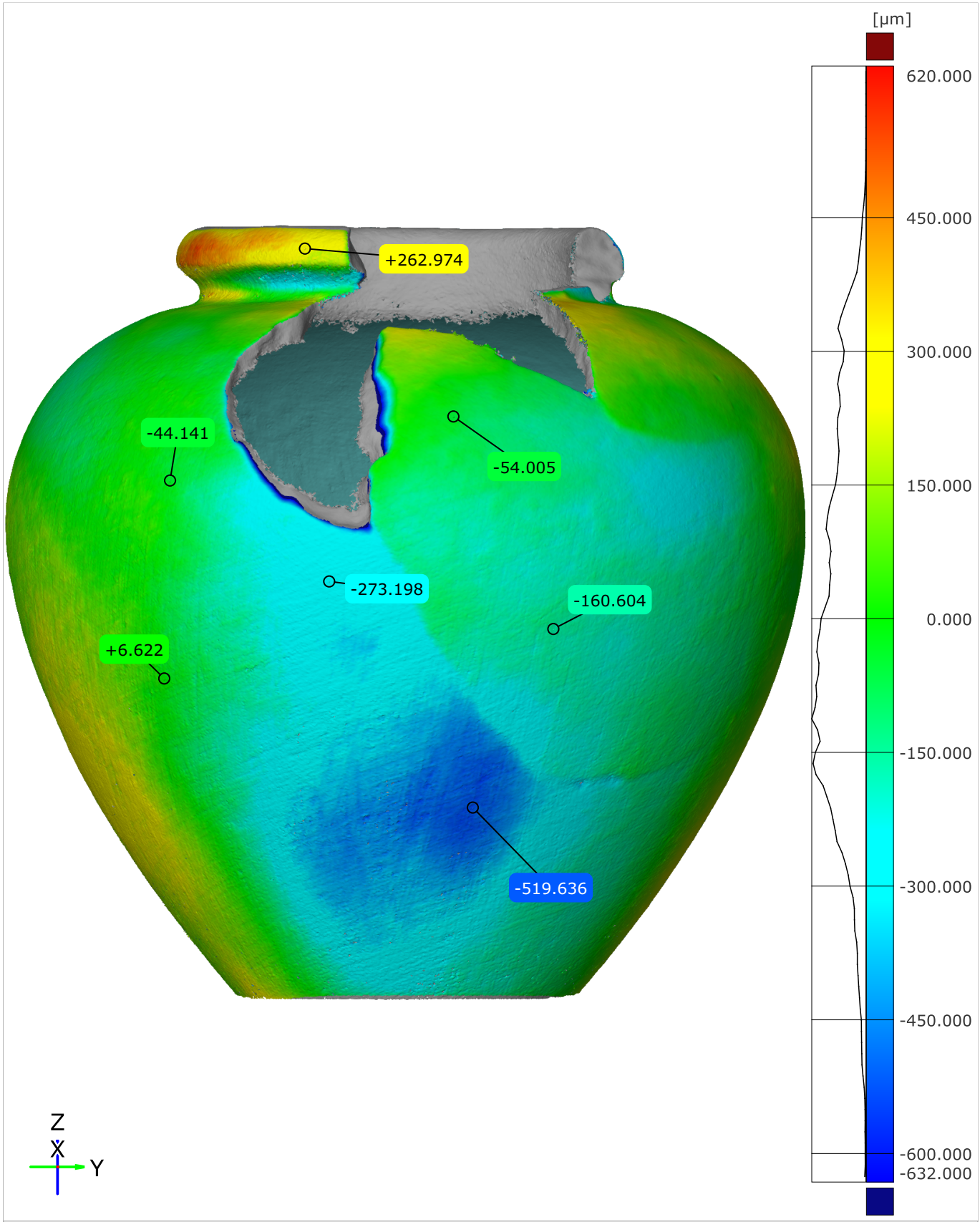
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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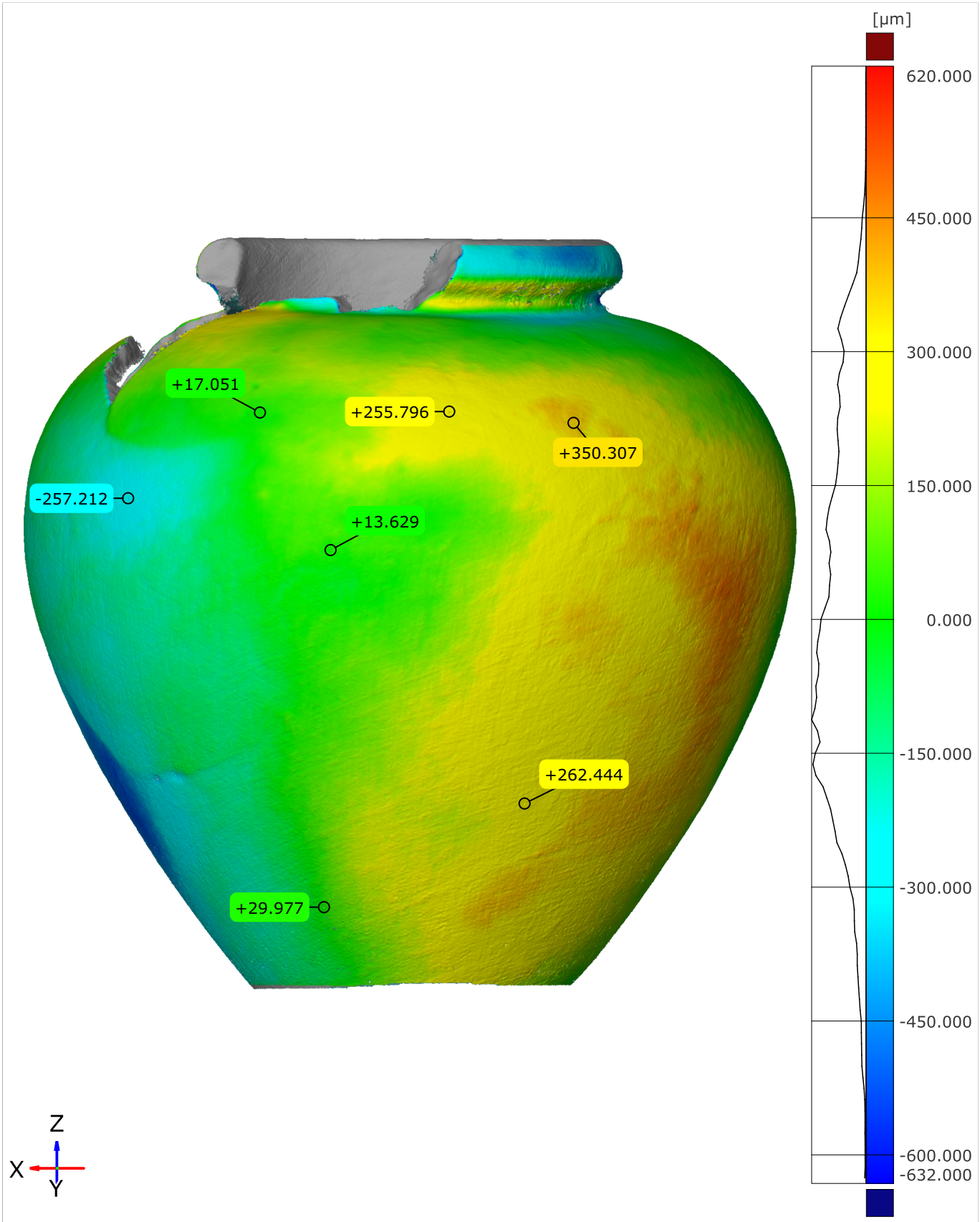
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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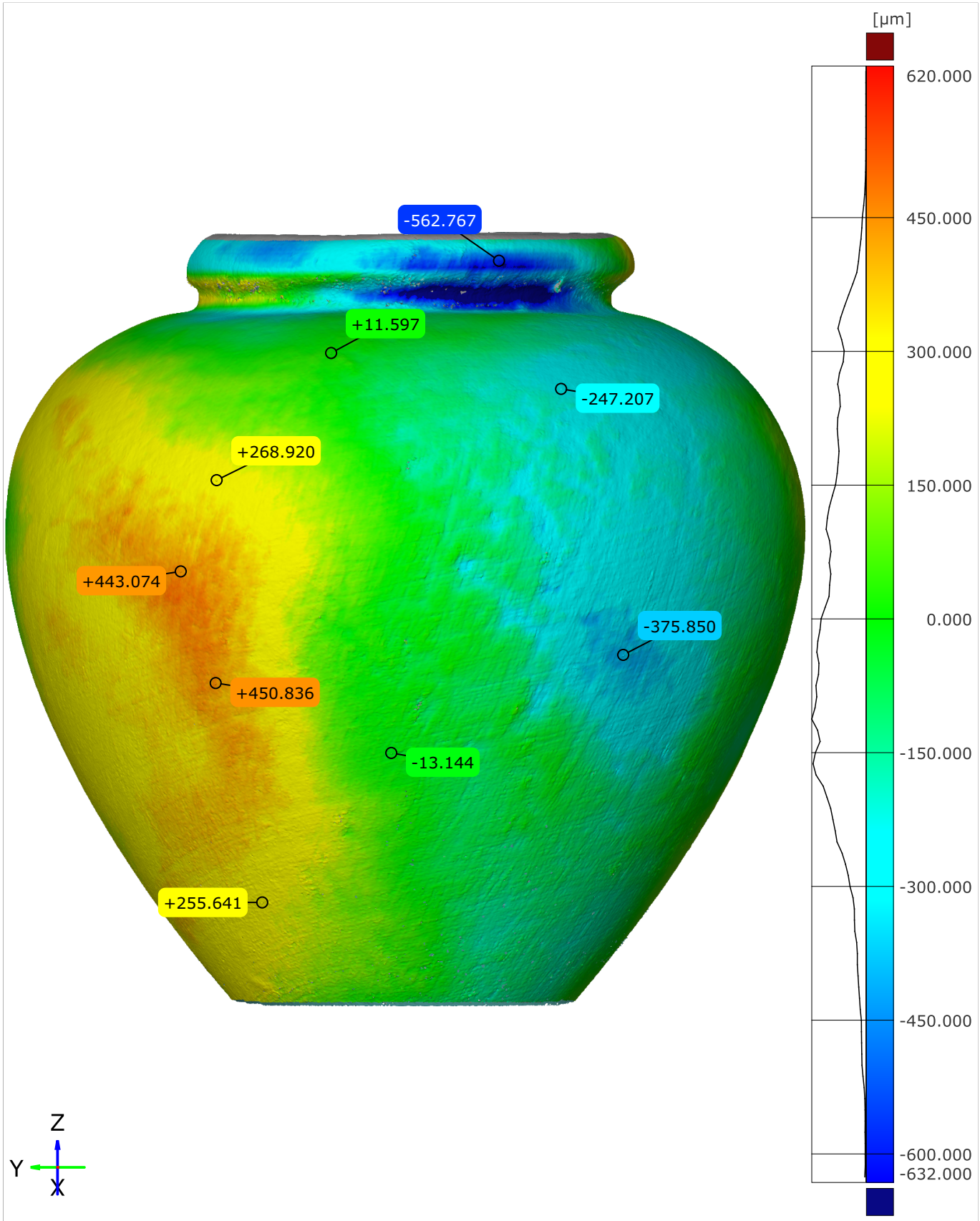
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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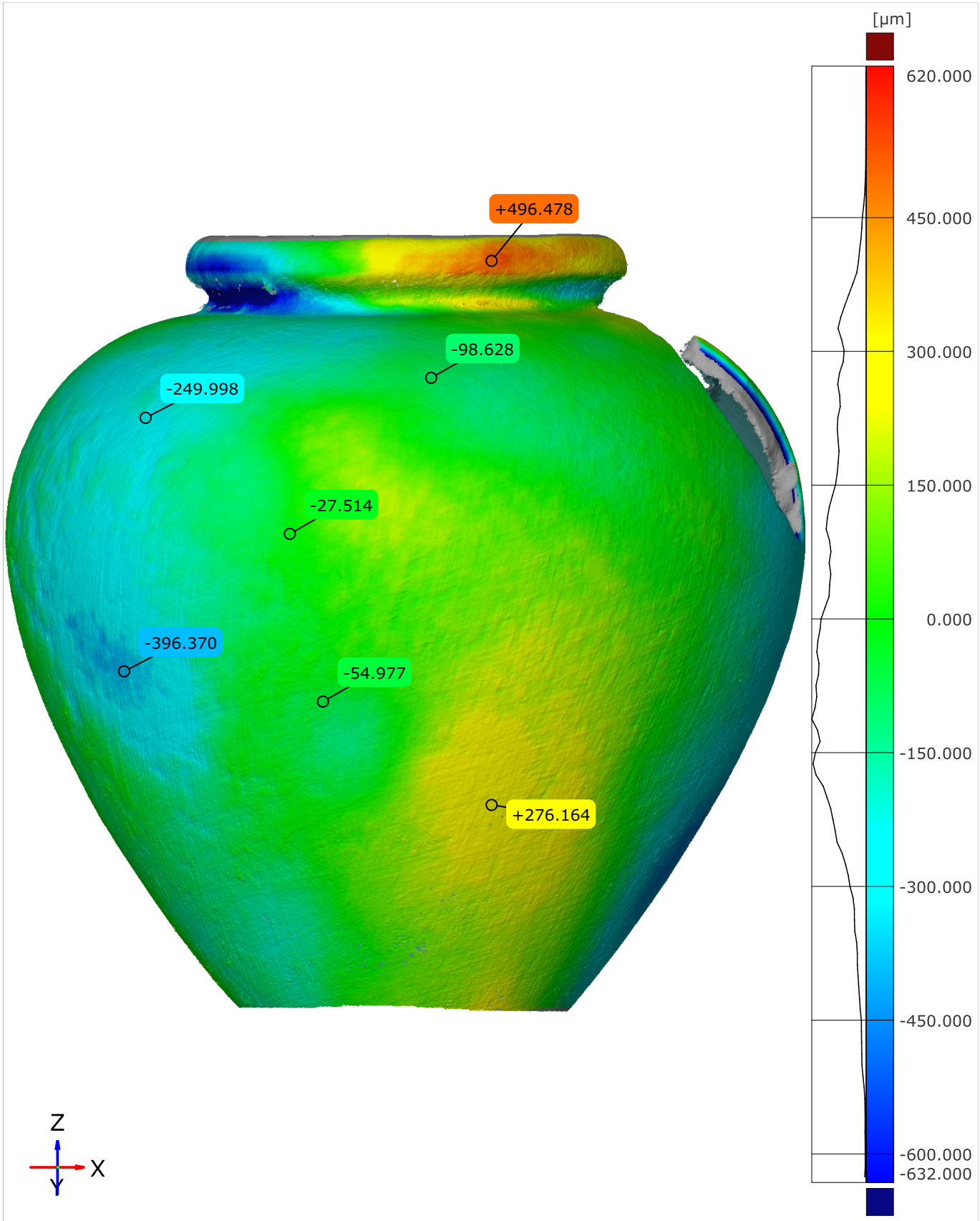
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

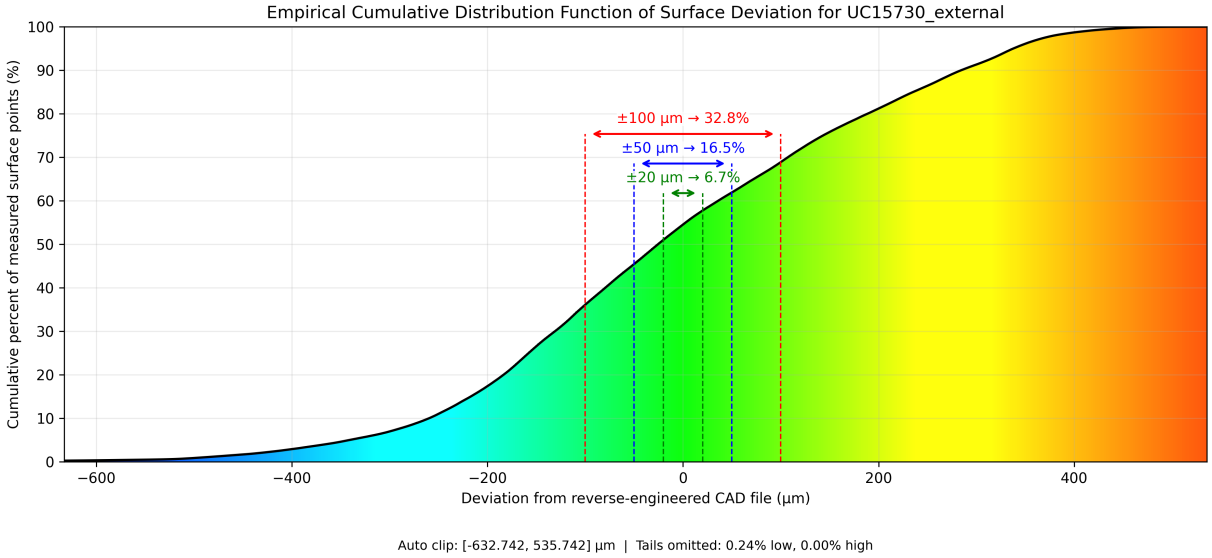

Figure 1.34: Surface Deviation ECDF (External)

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1.7.3 Internal

Circularity

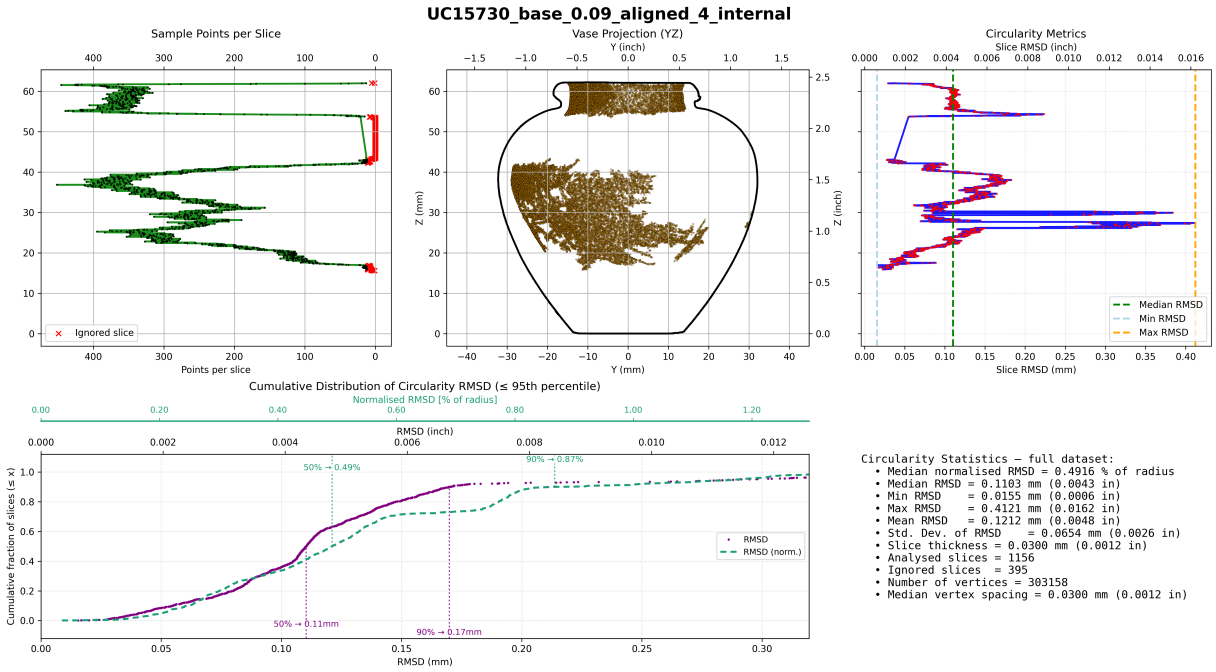

Figure 1.35: Circularity (Internal)

Concentricity

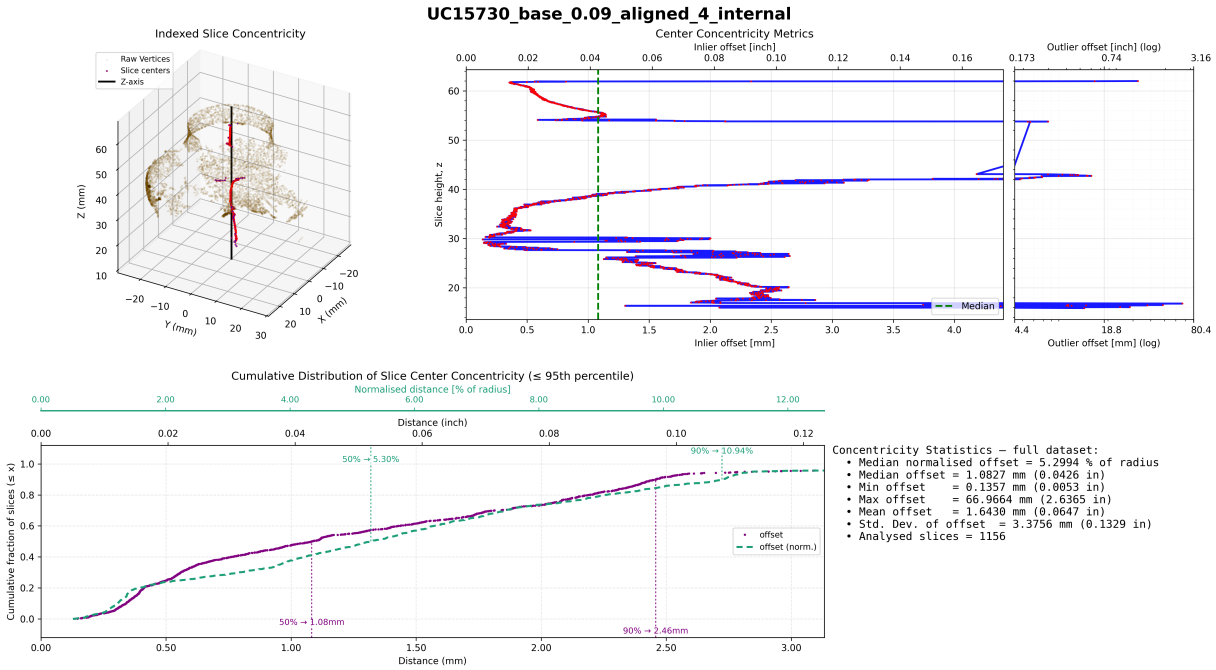

Figure 1.36: Concentricity (Internal)

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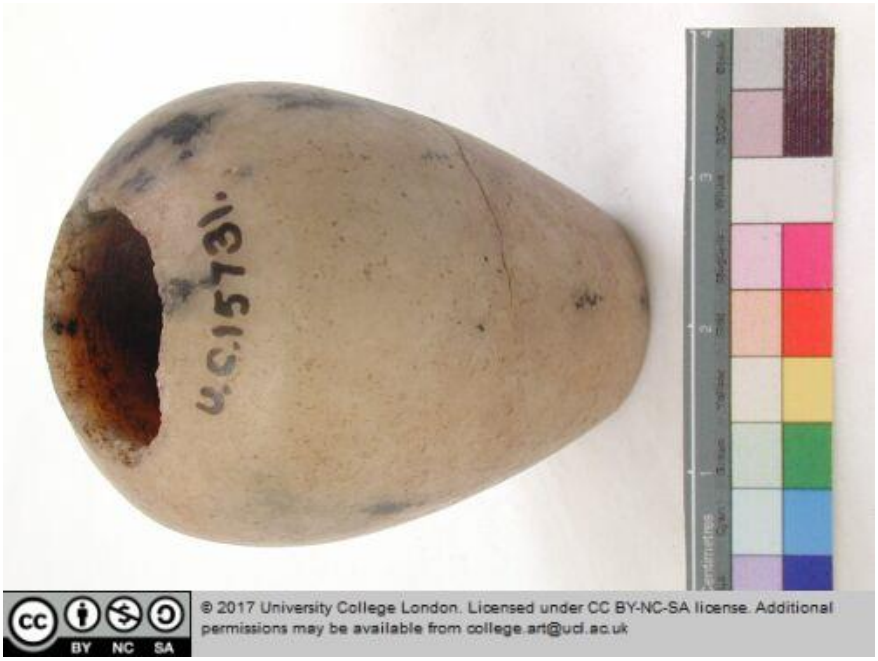
1.8 UC15731

1.8.1 Artifact Information



Accession Number	LDUCE-UC15731
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Black spotted white diorite vase. Rim area broken away.
Publications	Petrie, William Matthew Flinders, Prehistoric Egypt, pl.XLII.201
Production Period	(possible) Naqada II
Material	diorite
Dimensions	height: 4.1 cms
Notes	Object Category: vases

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1.8.2 External

Circularity

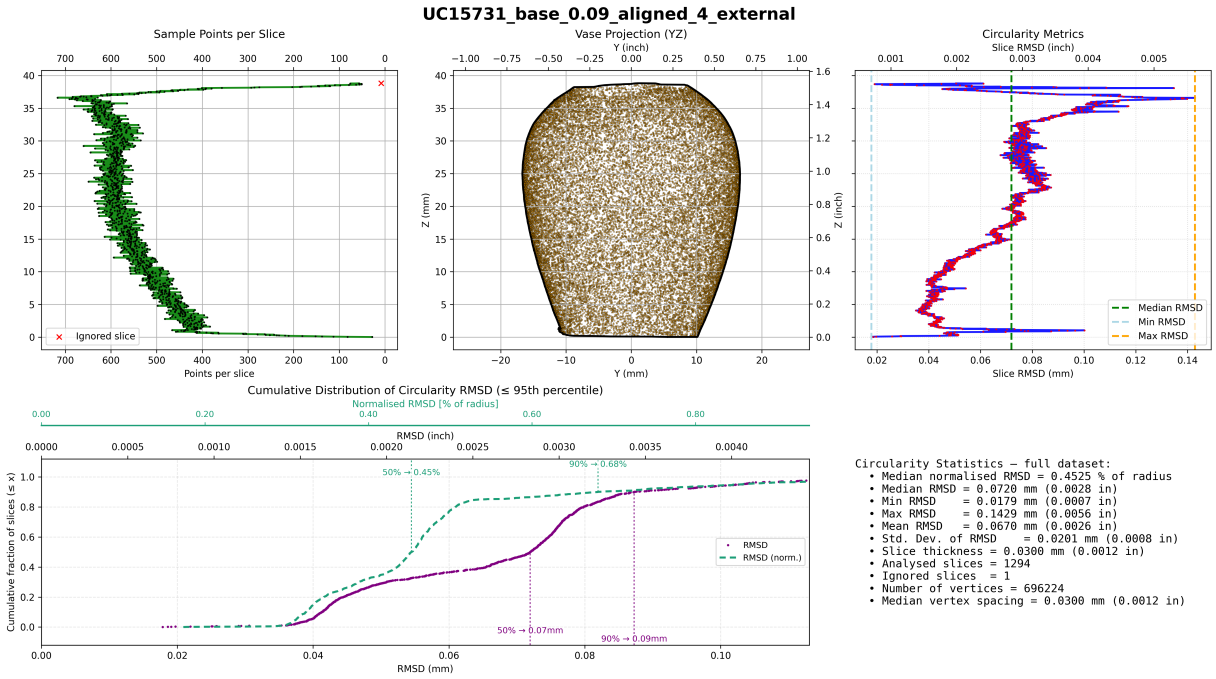

Figure 1.37: Circularity (External)

Concentricity

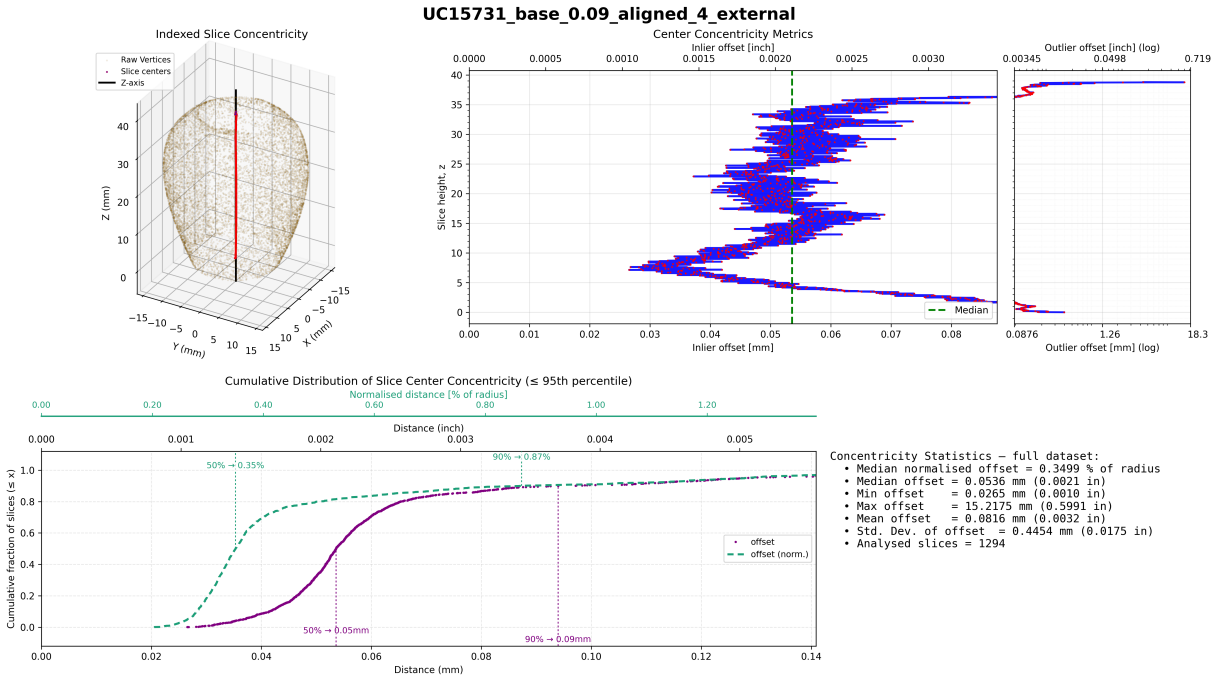

Figure 1.38: Concentricity (External)

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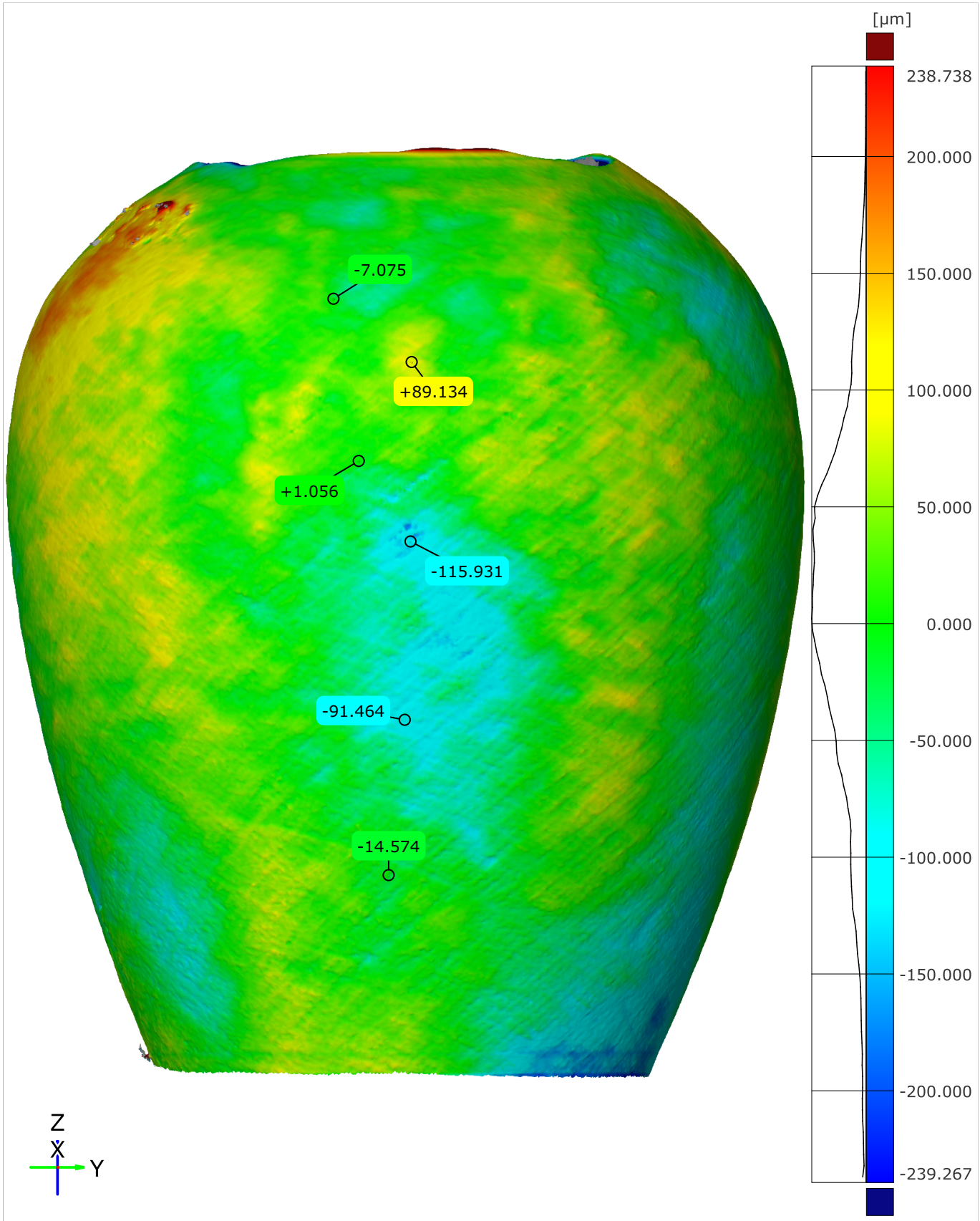
Surface Deviation Heatmap - Side 1



Original alignment Length unit: µm

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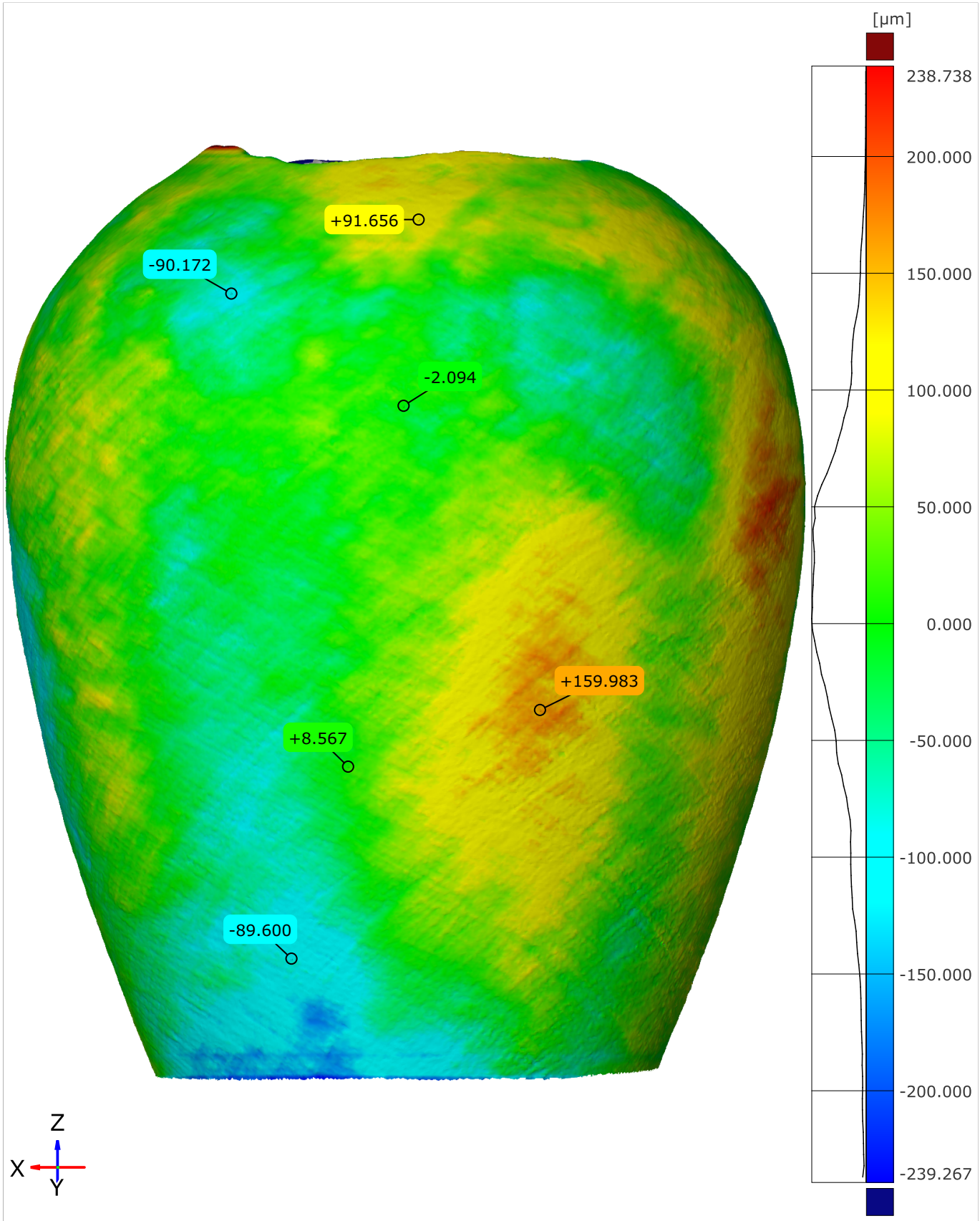
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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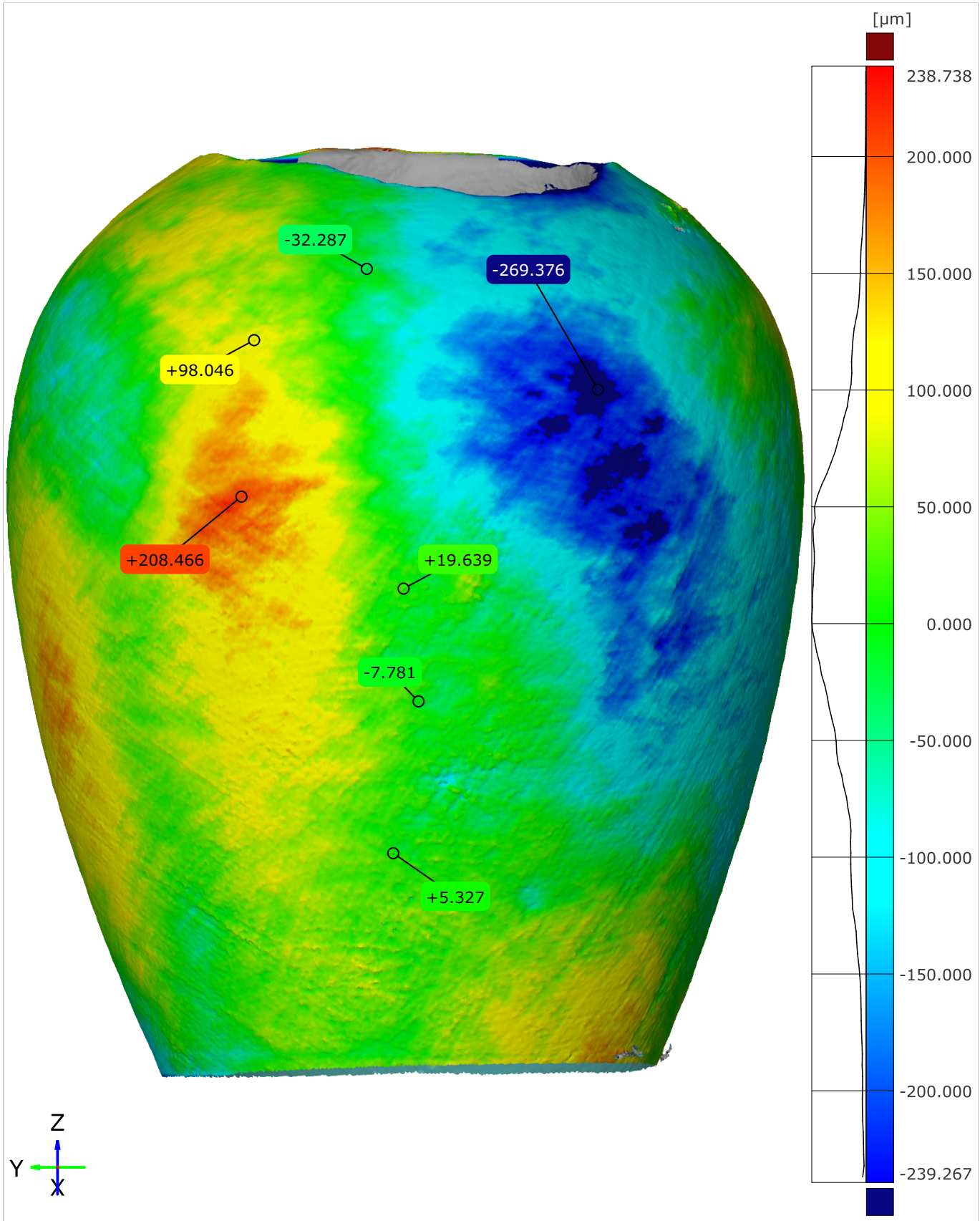
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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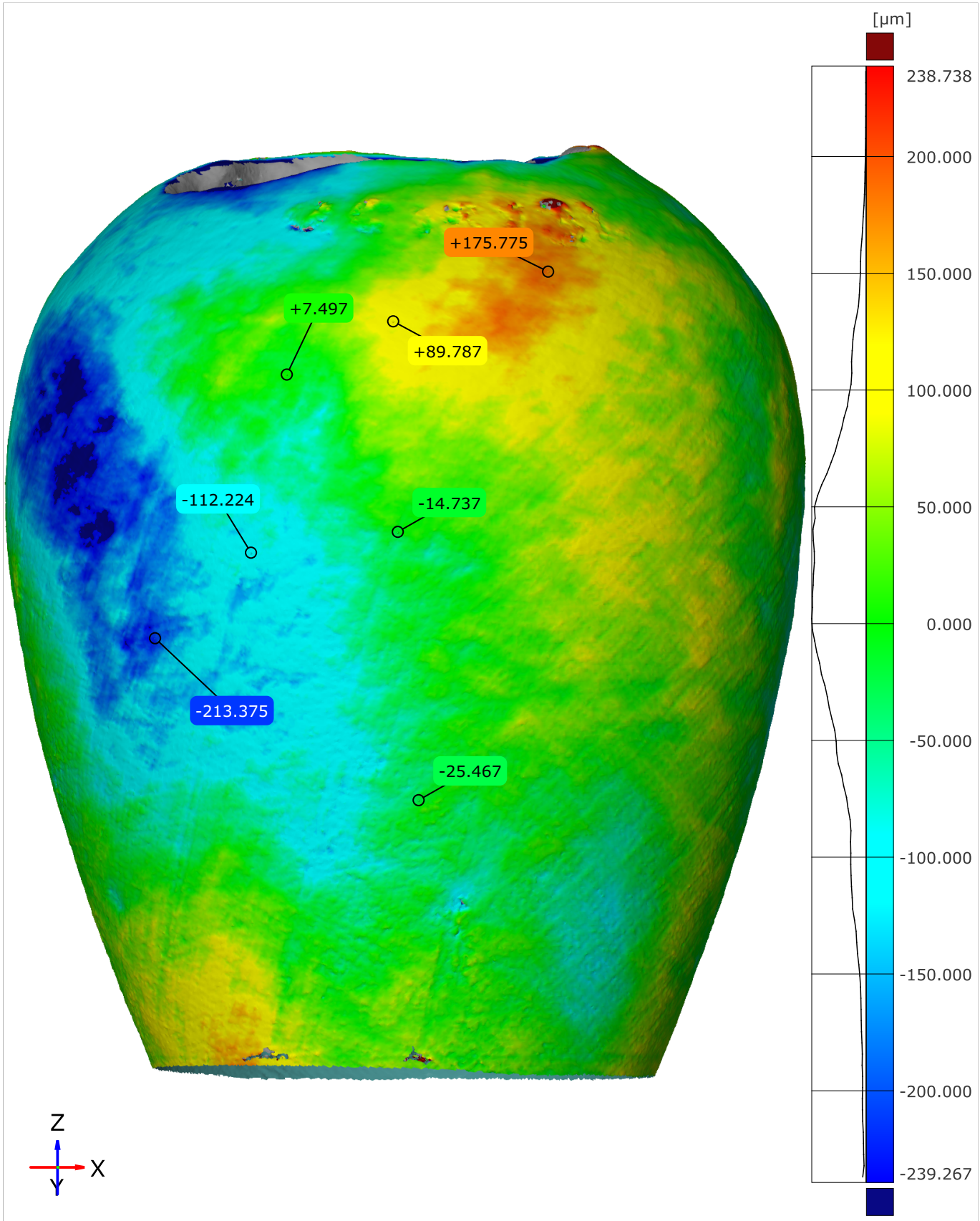
Surface Deviation Heatmap - Side 4



Original alignment Length unit: µm

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Surface Deviation ECDF

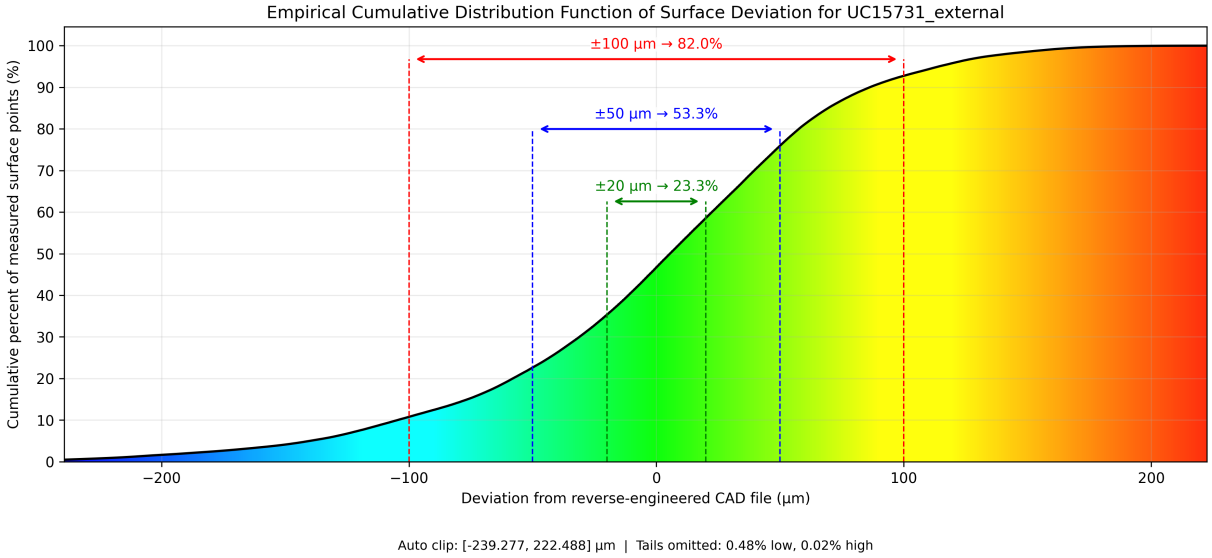

Figure 1.39: Surface Deviation ECDF (External)

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1.8.3 Internal

Circularity

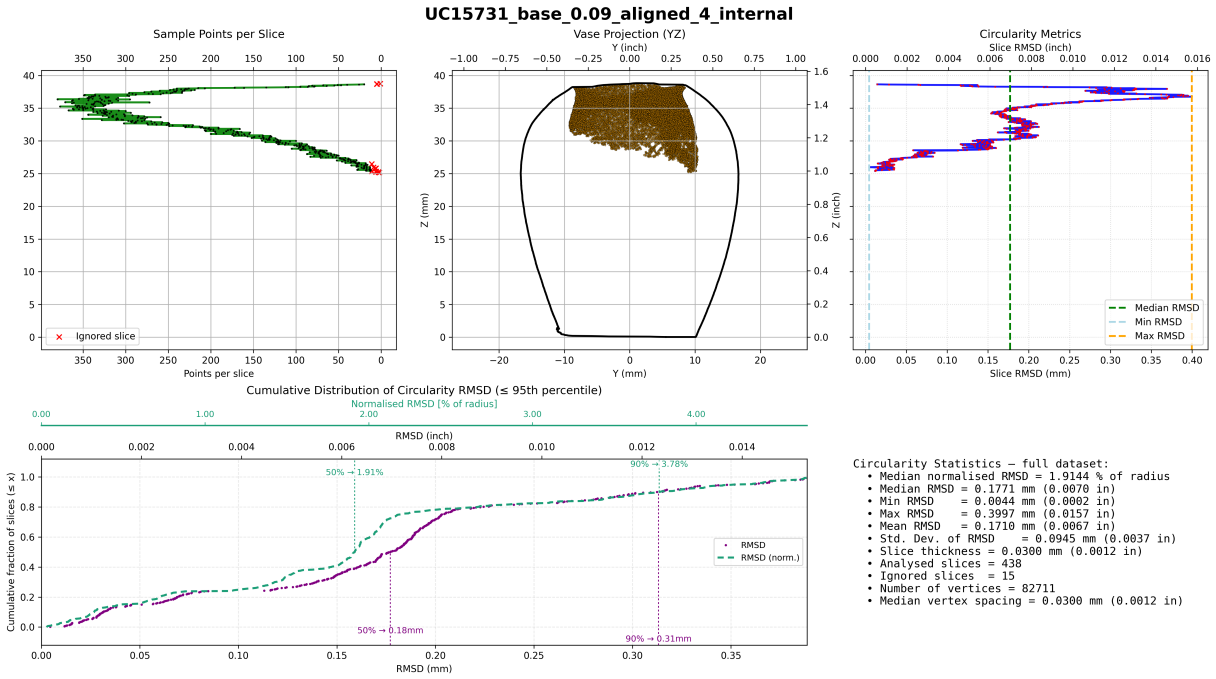

Figure 1.40: Circularity (Internal)

Concentricity

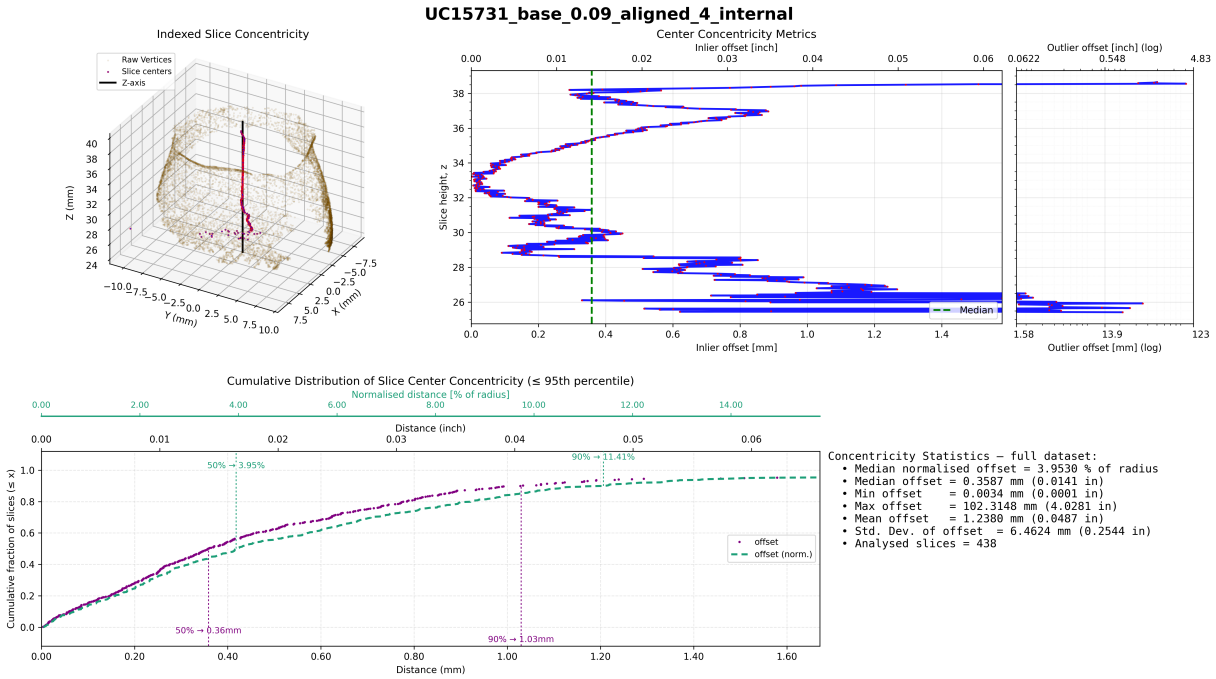

Figure 1.41: Concentricity (Internal)

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1.9 UC18947

1.9.1 Artifact Information



Accession Number	LDUCE-UC18947
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Calcite (Egyptian alabaster) keeled vase, from the lower chamber in the tomb of the governor May at Qau (tomb no.1456).
Publications	- Brunton, Guy, Qau and Badari III, p. 14, XXXV, 28. XXXIII, XXII
Production Period	Middle Dynasty 18
Material	calcite
Dimensions	height: 12 cms; diameter: 16.5 cms ?
Notes	Object Category: vases

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1.9.2 External

Circularity

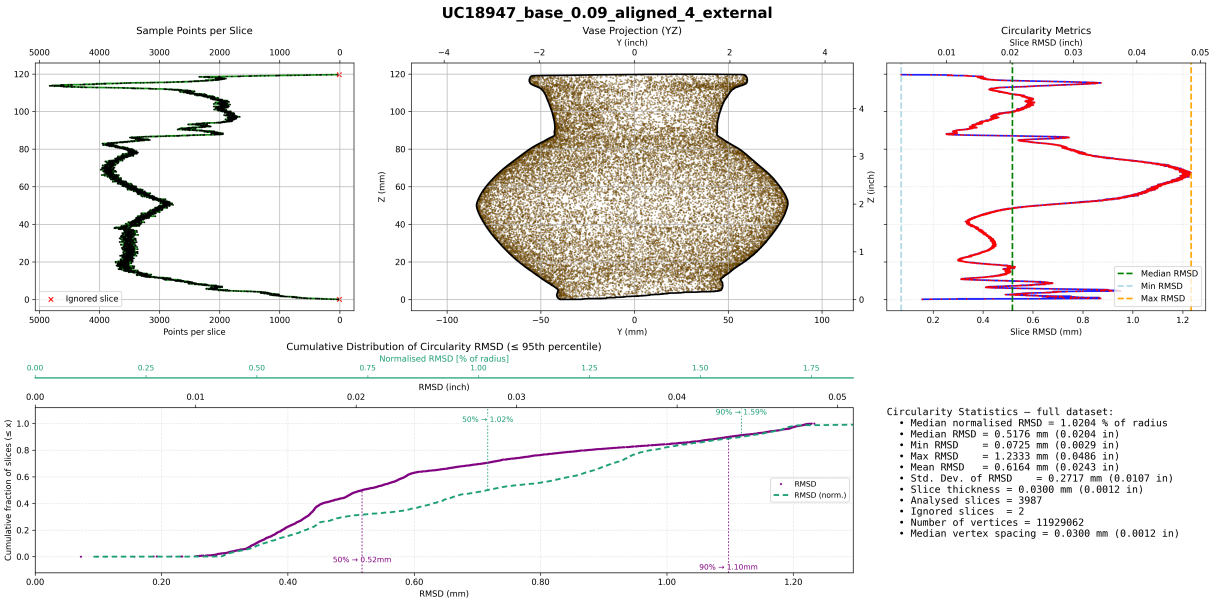

Figure 1.42: Circularity (External)

Concentricity

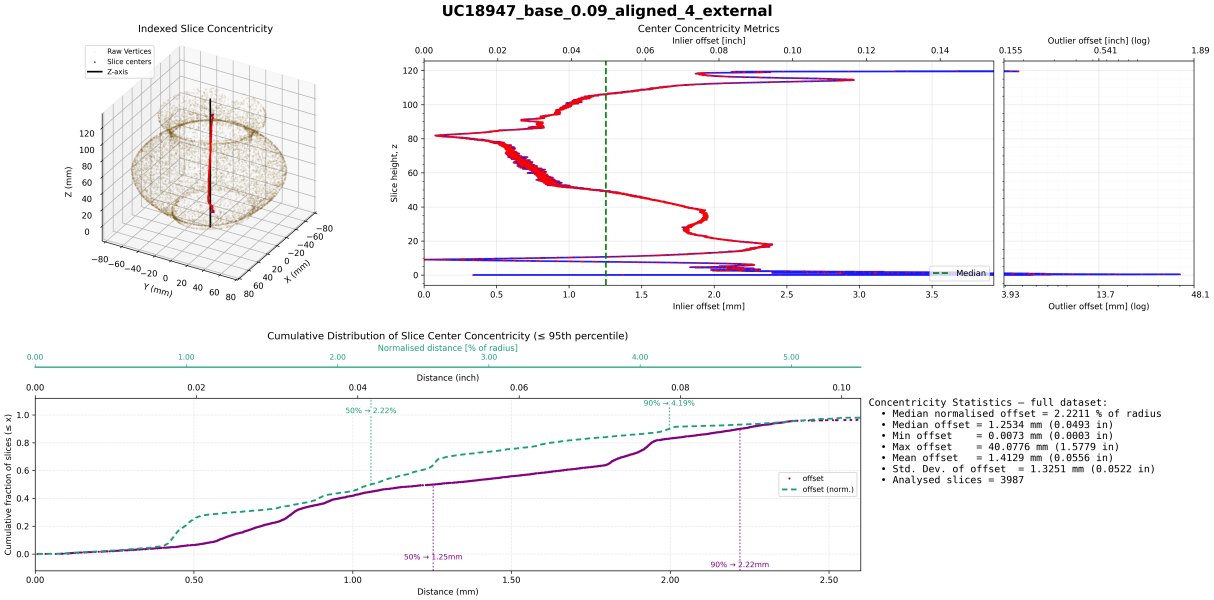

Figure 1.43: Concentricity (External)

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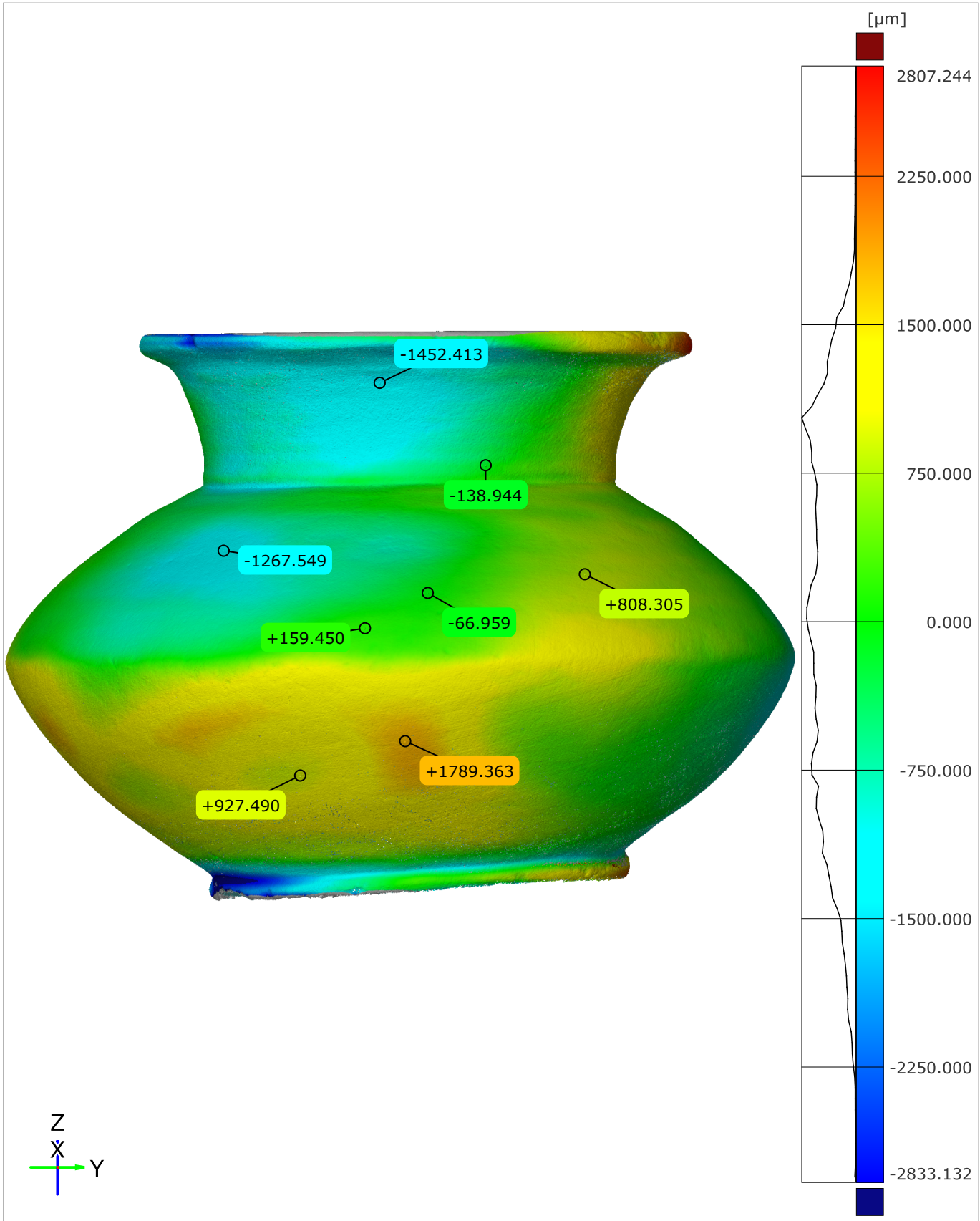
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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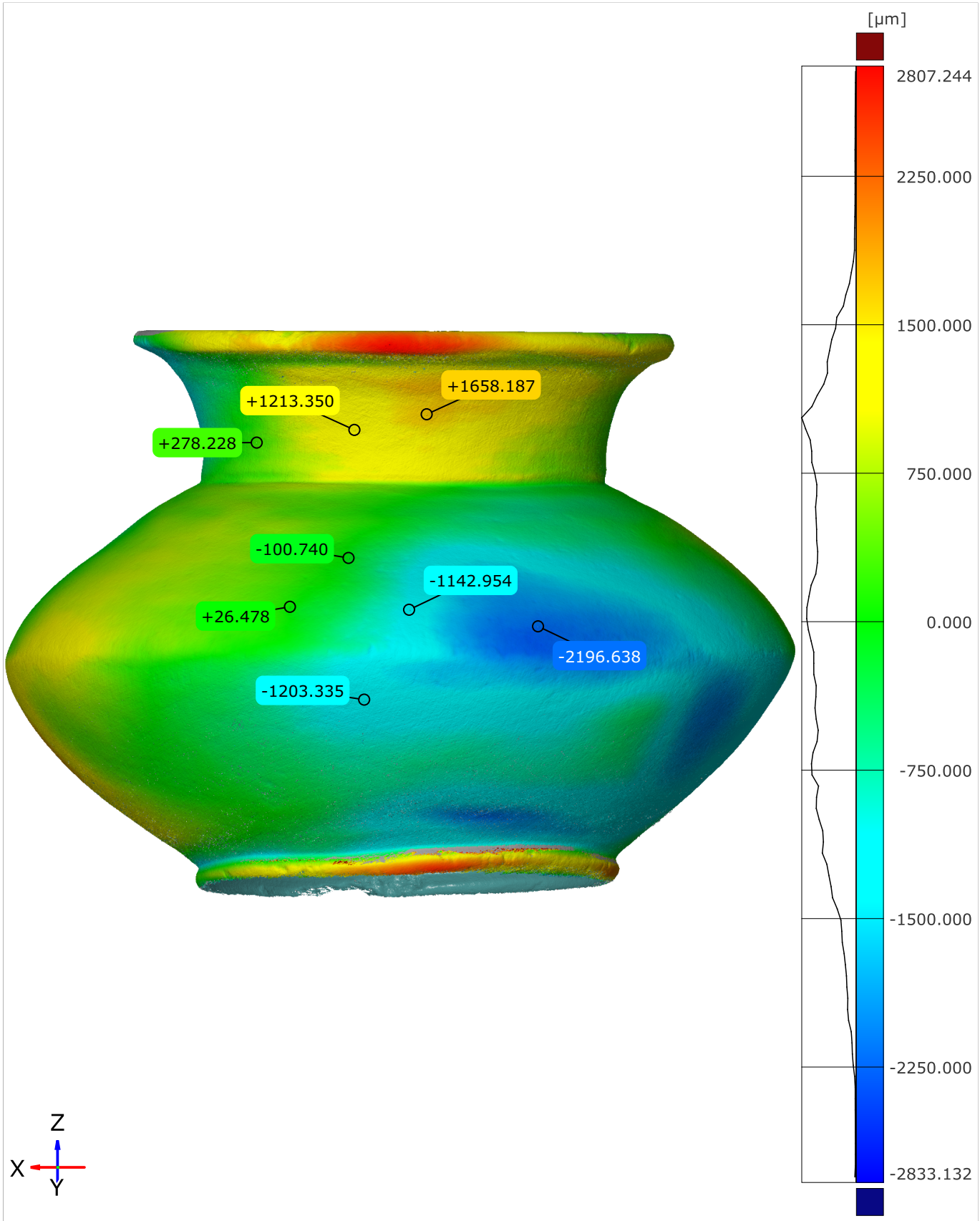
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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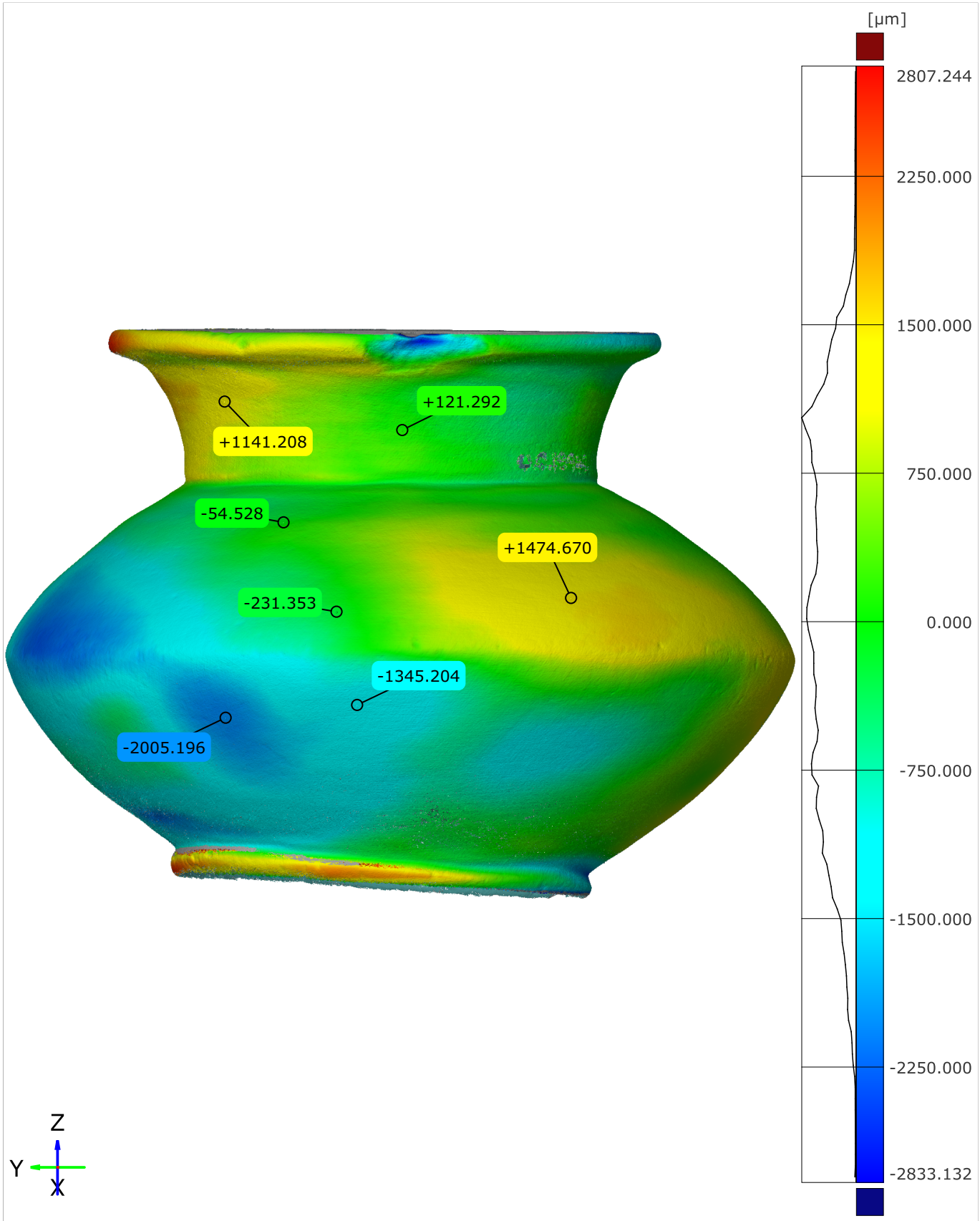
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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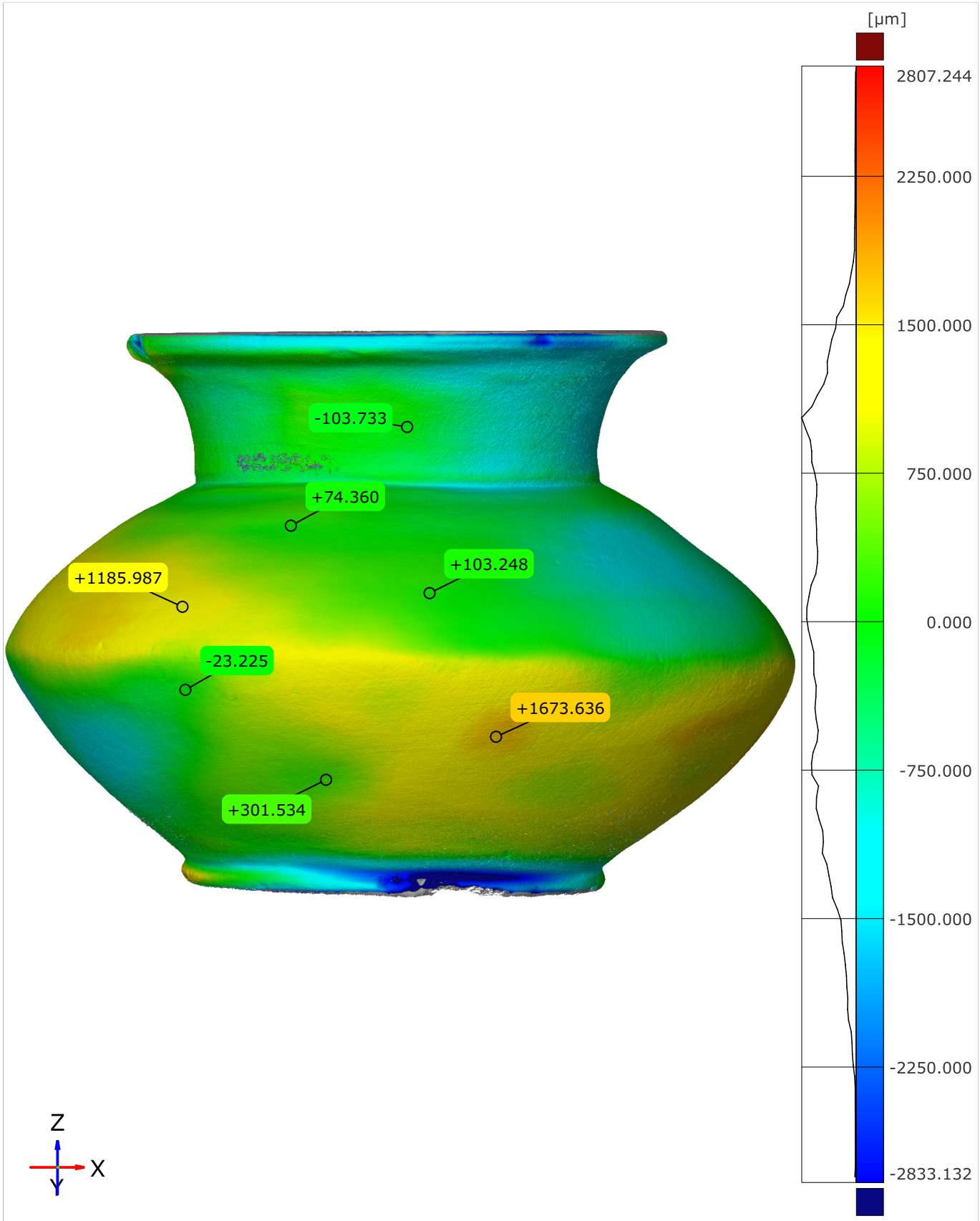
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

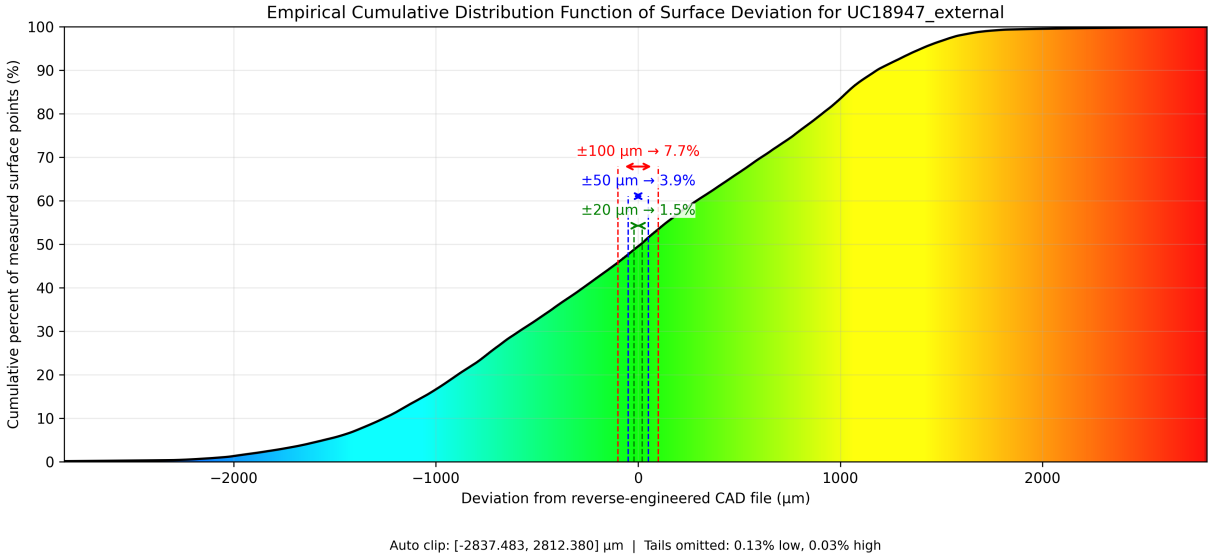

Figure 1.44: Surface Deviation ECDF (External)

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1.9.3 Internal

Circularity

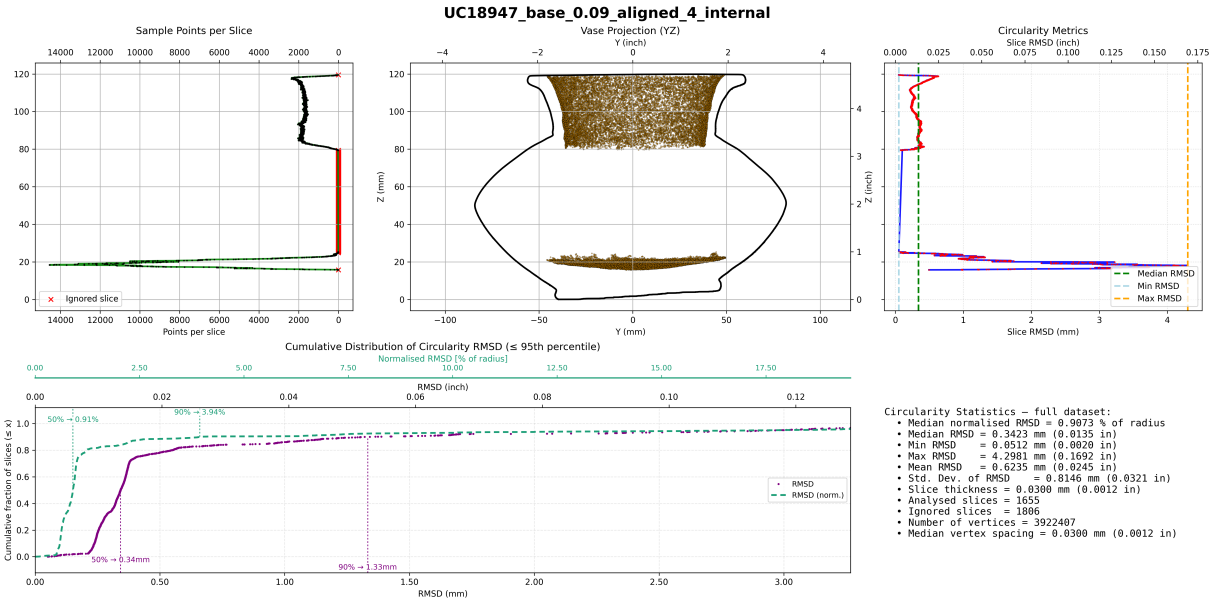

Figure 1.45: Circularity (Internal)

Concentricity

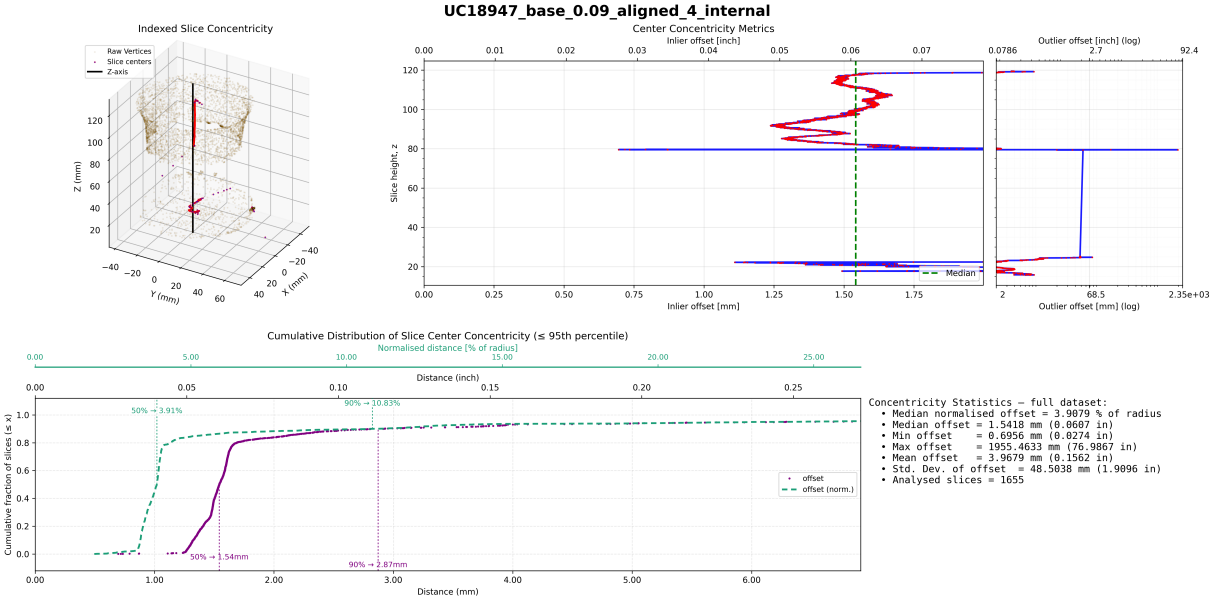

Figure 1.46: Concentricity (Internal)

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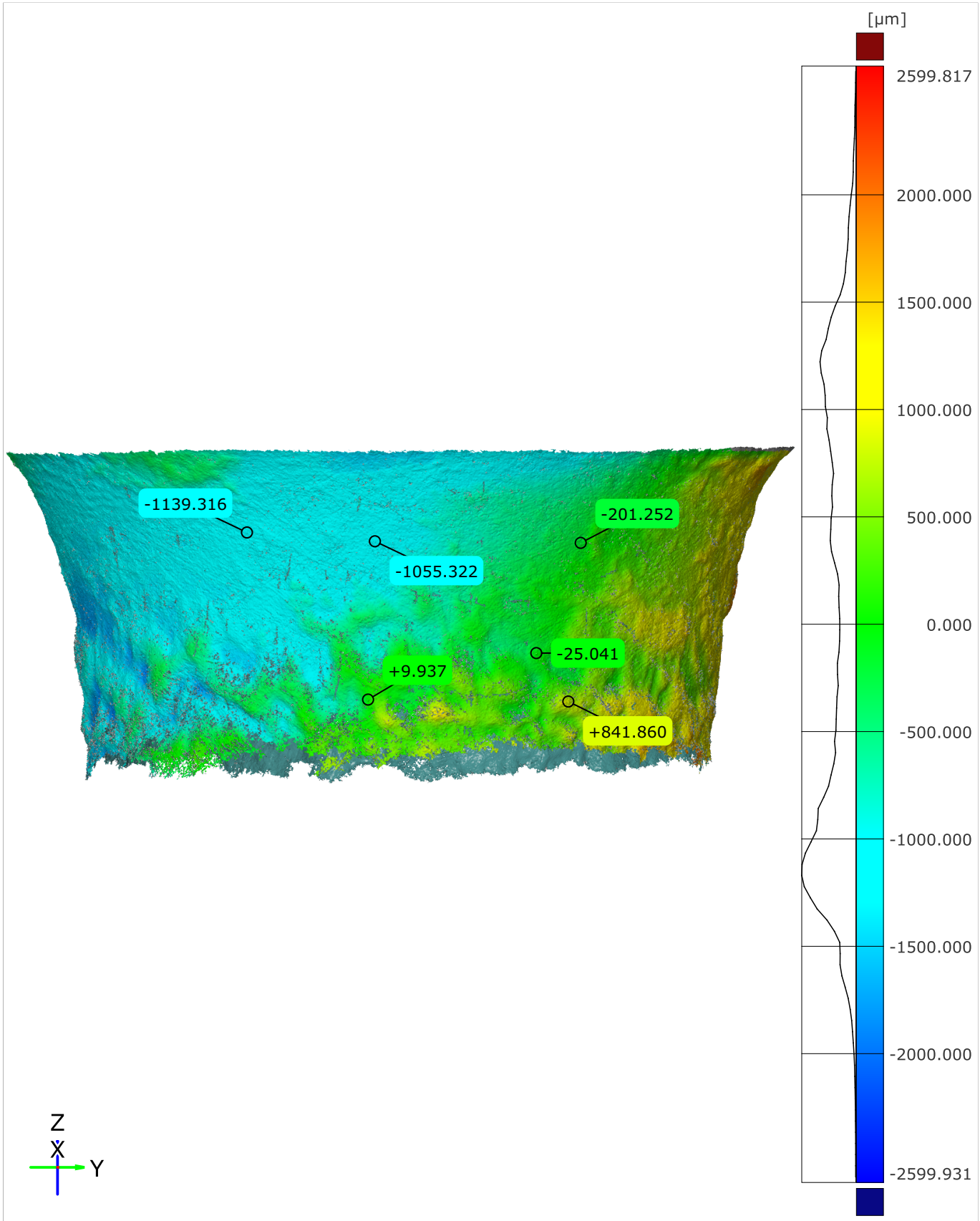
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

Petrie Museum of Egyptian Archaeology UC18947 - interior 1/4

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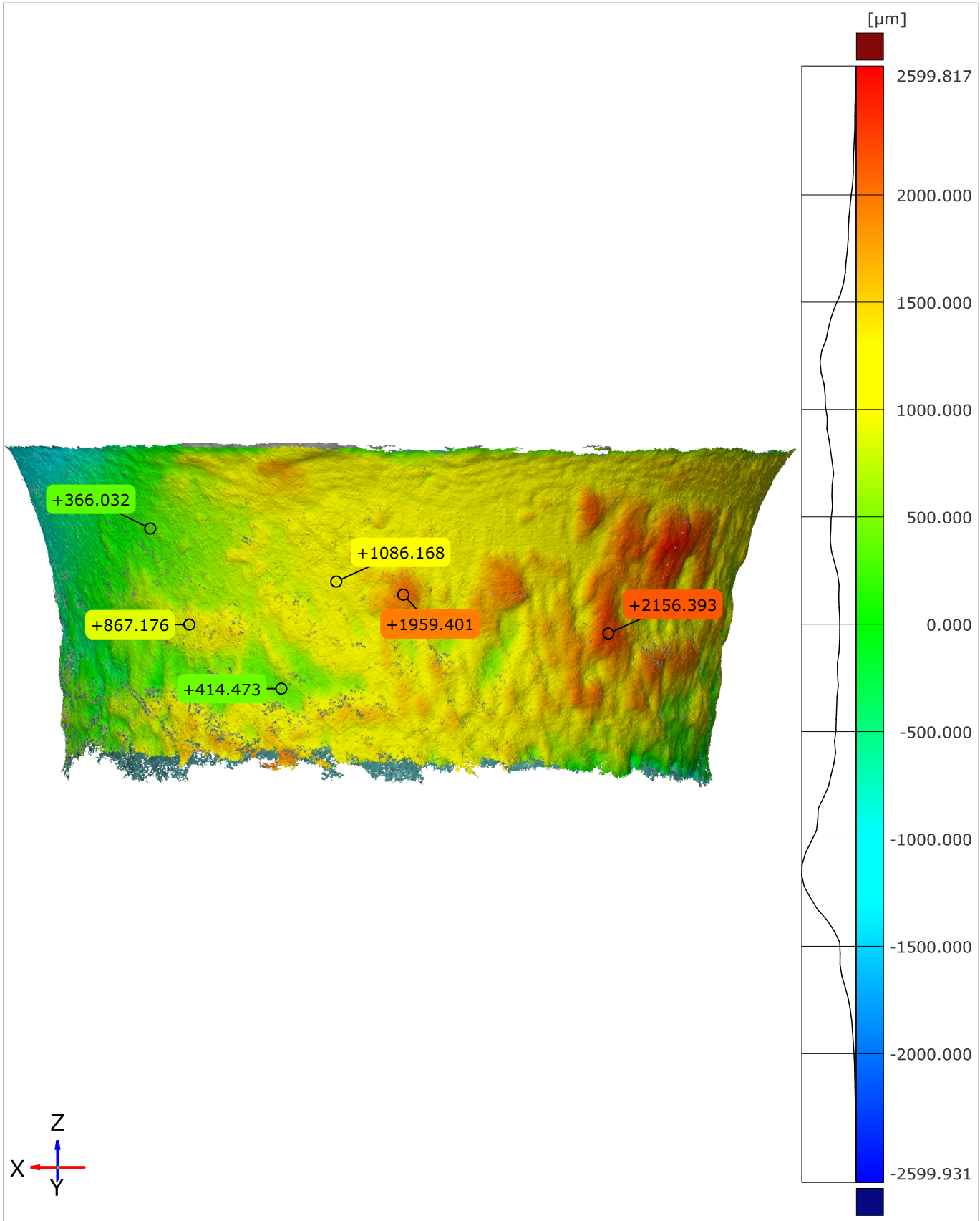
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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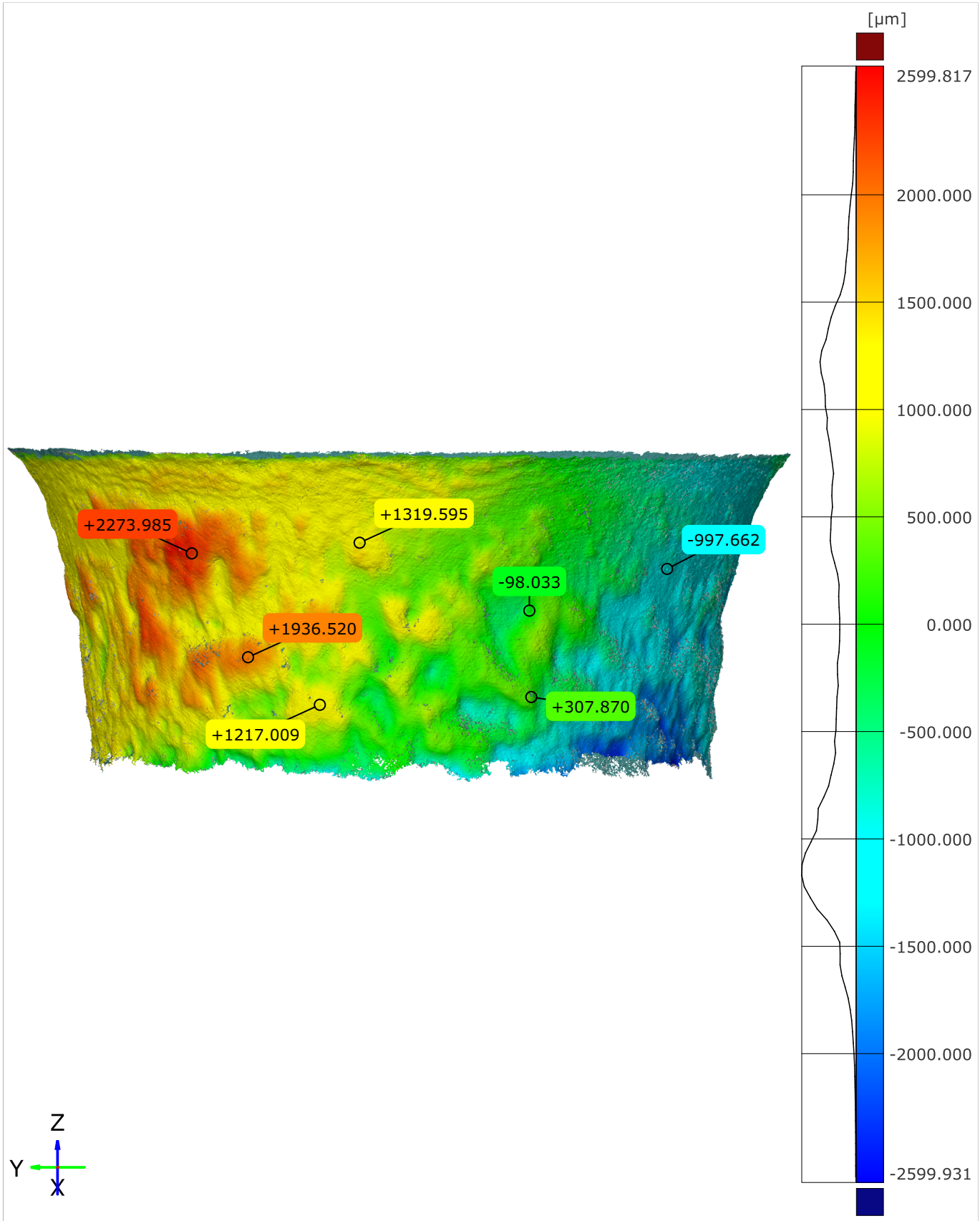
Surface Deviation Heatmap - Side 3



Original alignment Length unit: µm

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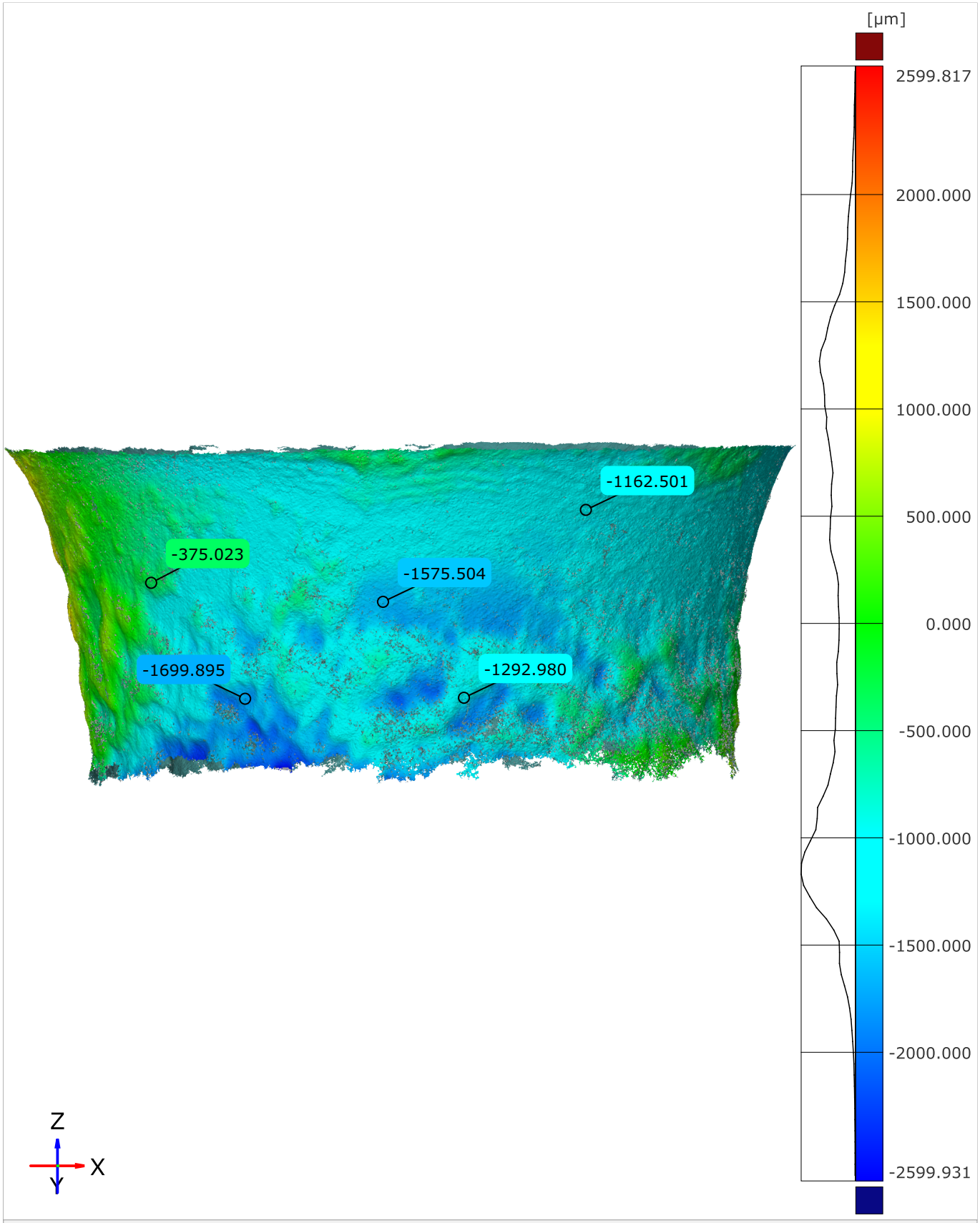
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

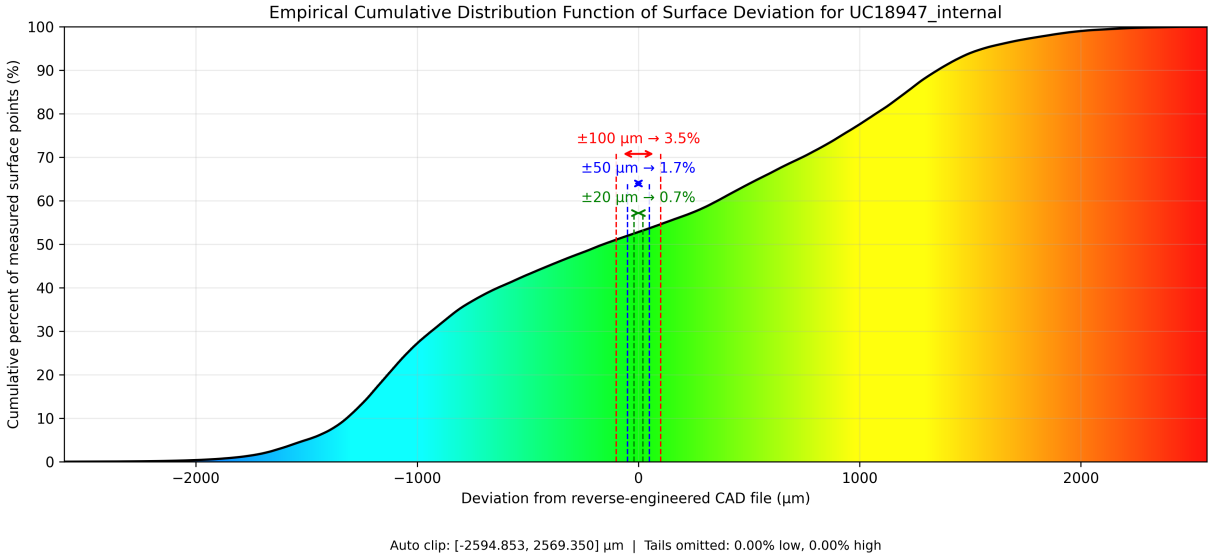

Figure 1.47: Surface Deviation ECDF (Internal)

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1.10 UC30218

1.10.1 Artifact Information



Accession Number	LDUCE-UC30218
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Black and white porphyry vase; flat slightly rimmed base, two perforated longitudinal handles on rounded shoulder, constricted to flat-topped rim. From the royal tomb of King Den in the Umm el-Qa'ab at Abydos. Possibly an heirloom in a later context.
Publications	- Petrie, William Matthew Flinders, Funeral Furniture of Egypt; Stone and Metal Vases, pl. XV, 154, p.6
Production Period	1st Dynasty Naqada II Naqada III
Material	porphyry
Dimensions	height: 11.3 cms; diameter: 12.5 cms
Notes	Object Category: vases

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1.10.2 External

Circularity

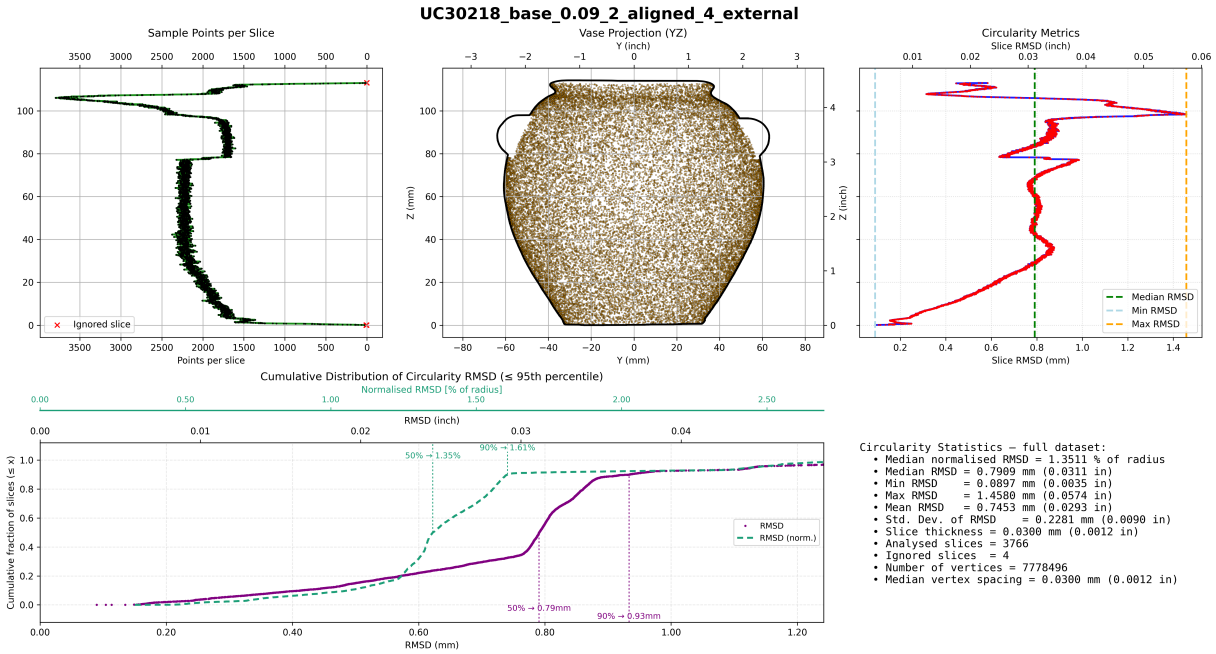

Figure 1.48: Circularity (External)

Concentricity

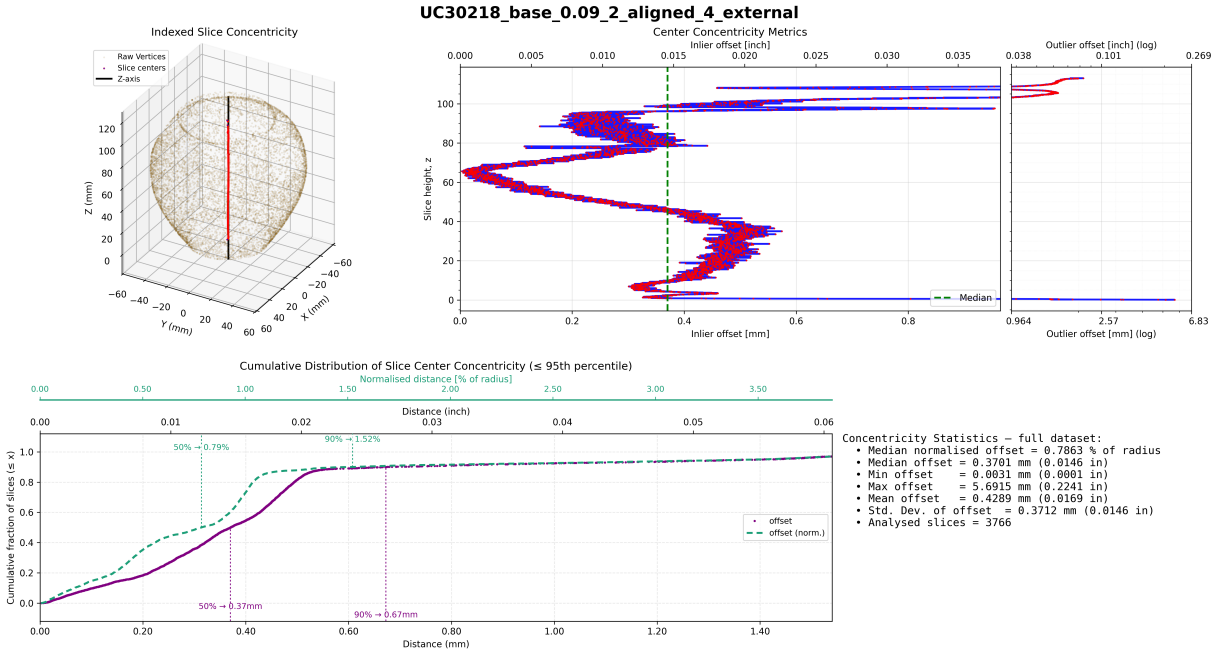

Figure 1.49: Concentricity (External)

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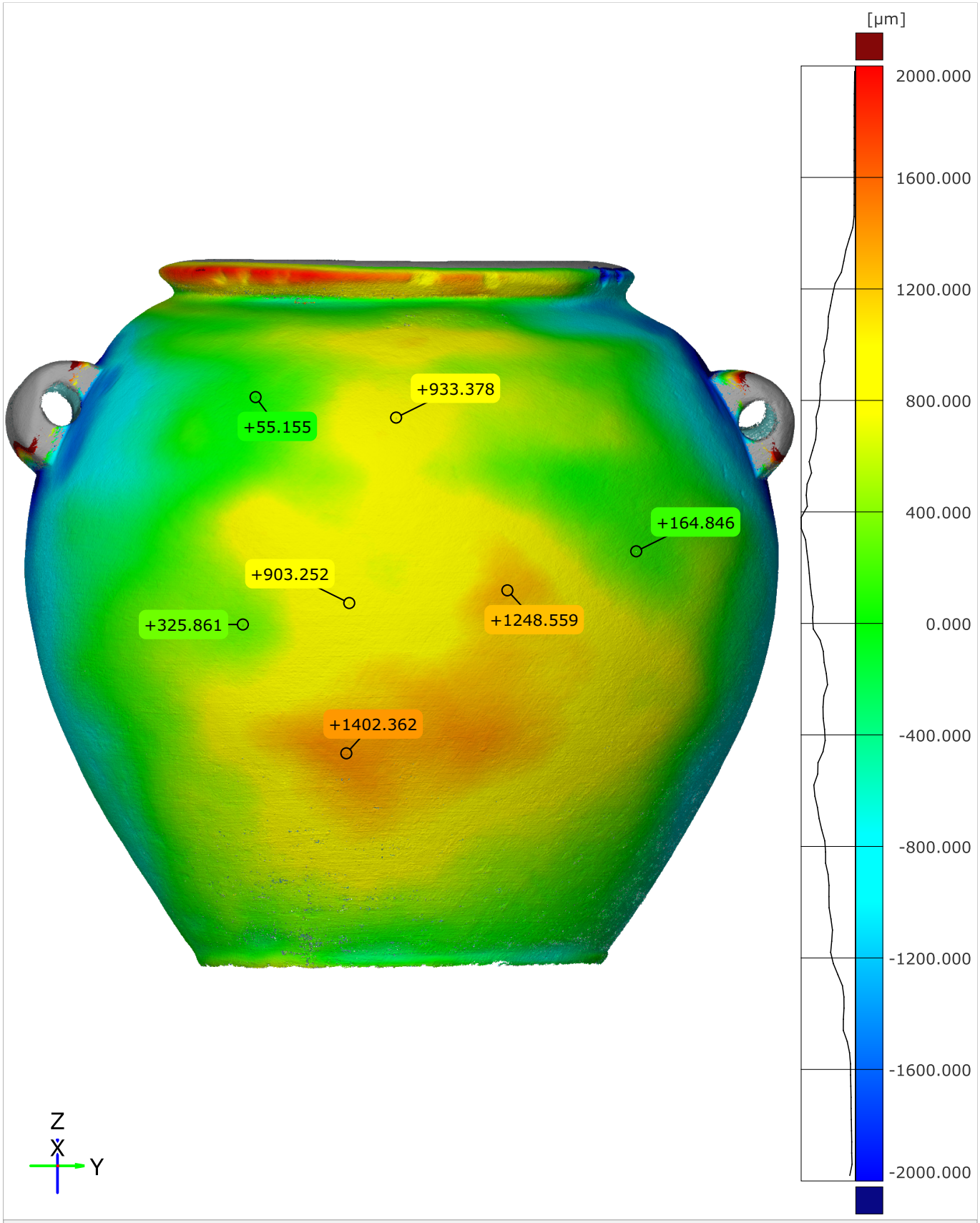
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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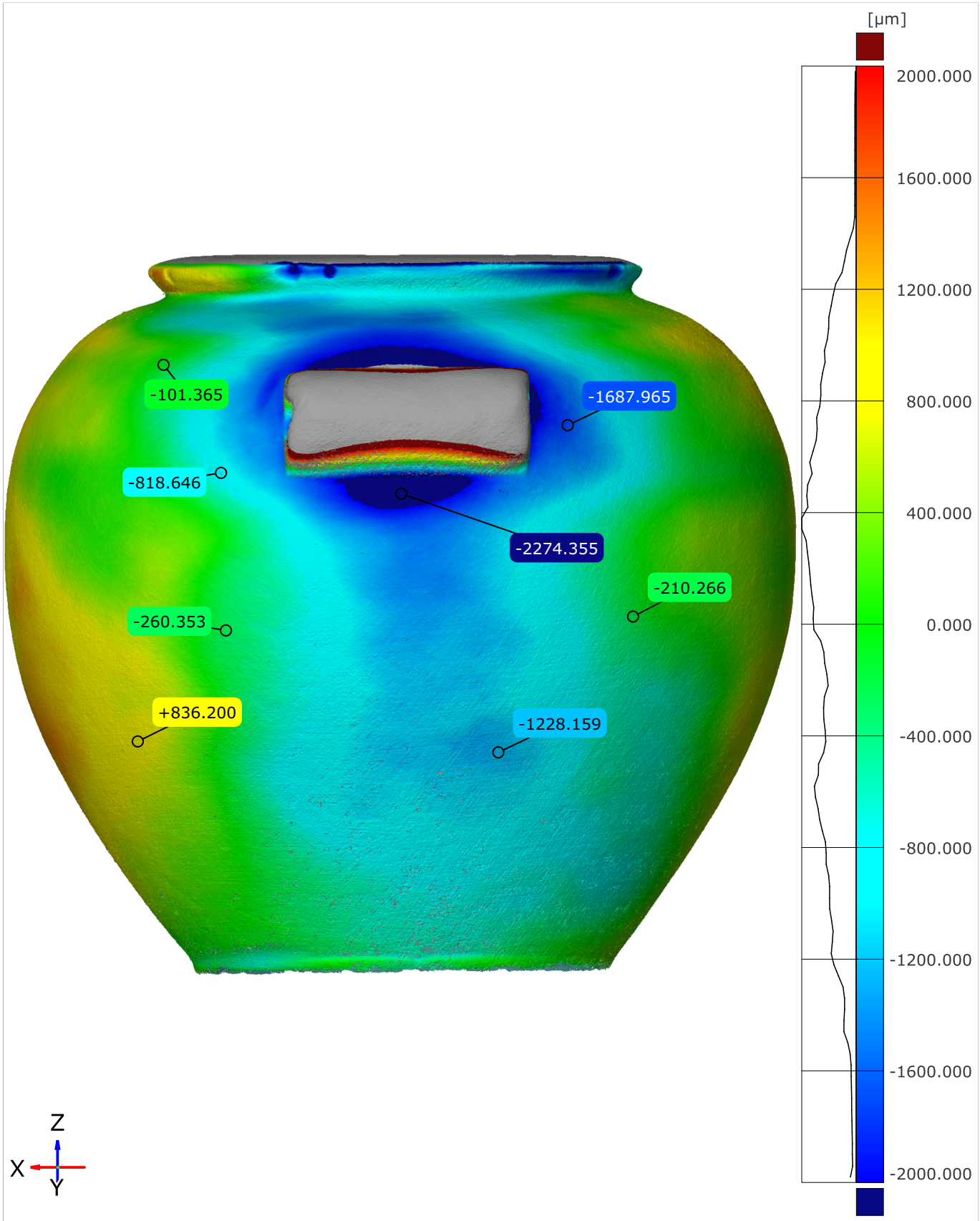
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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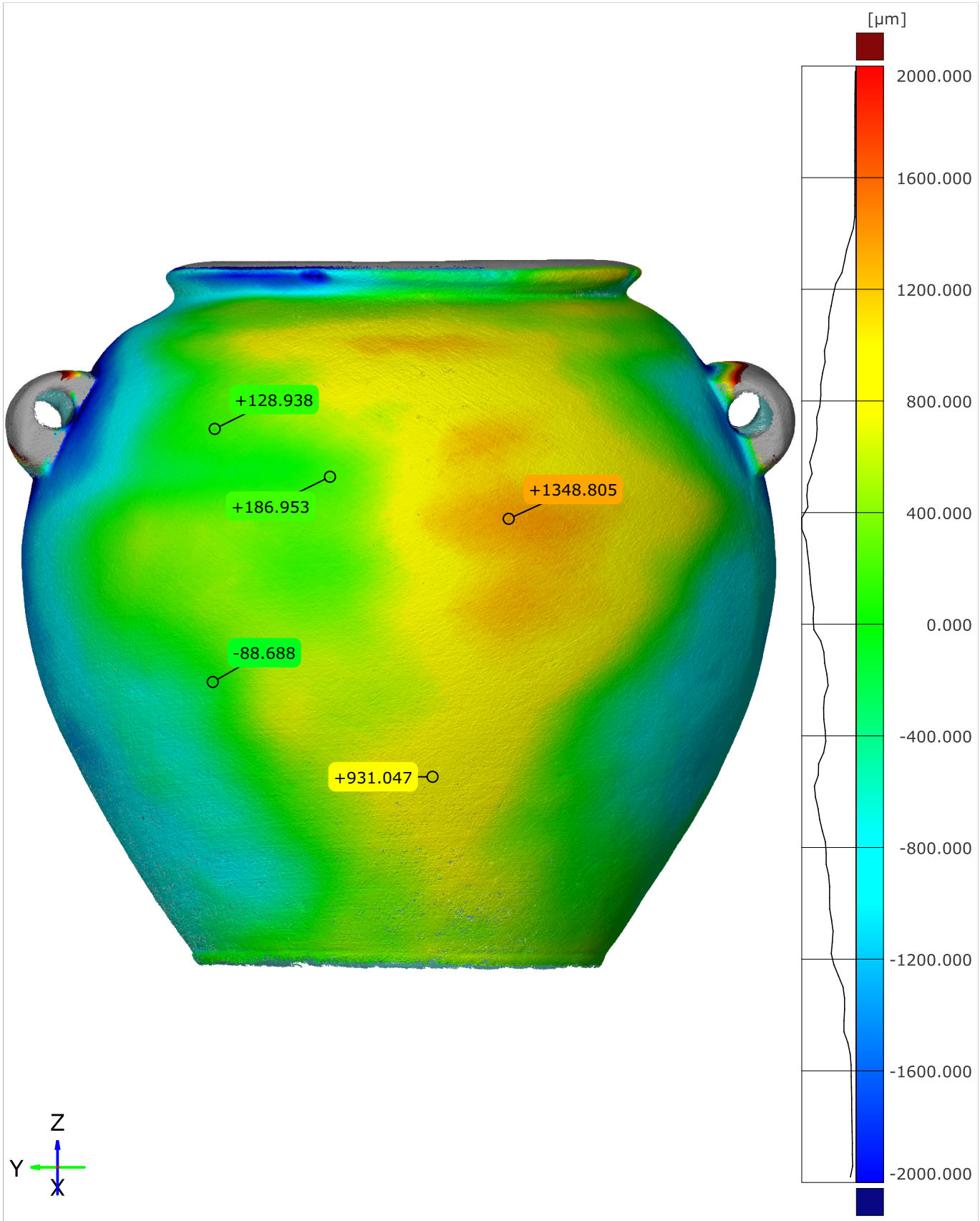
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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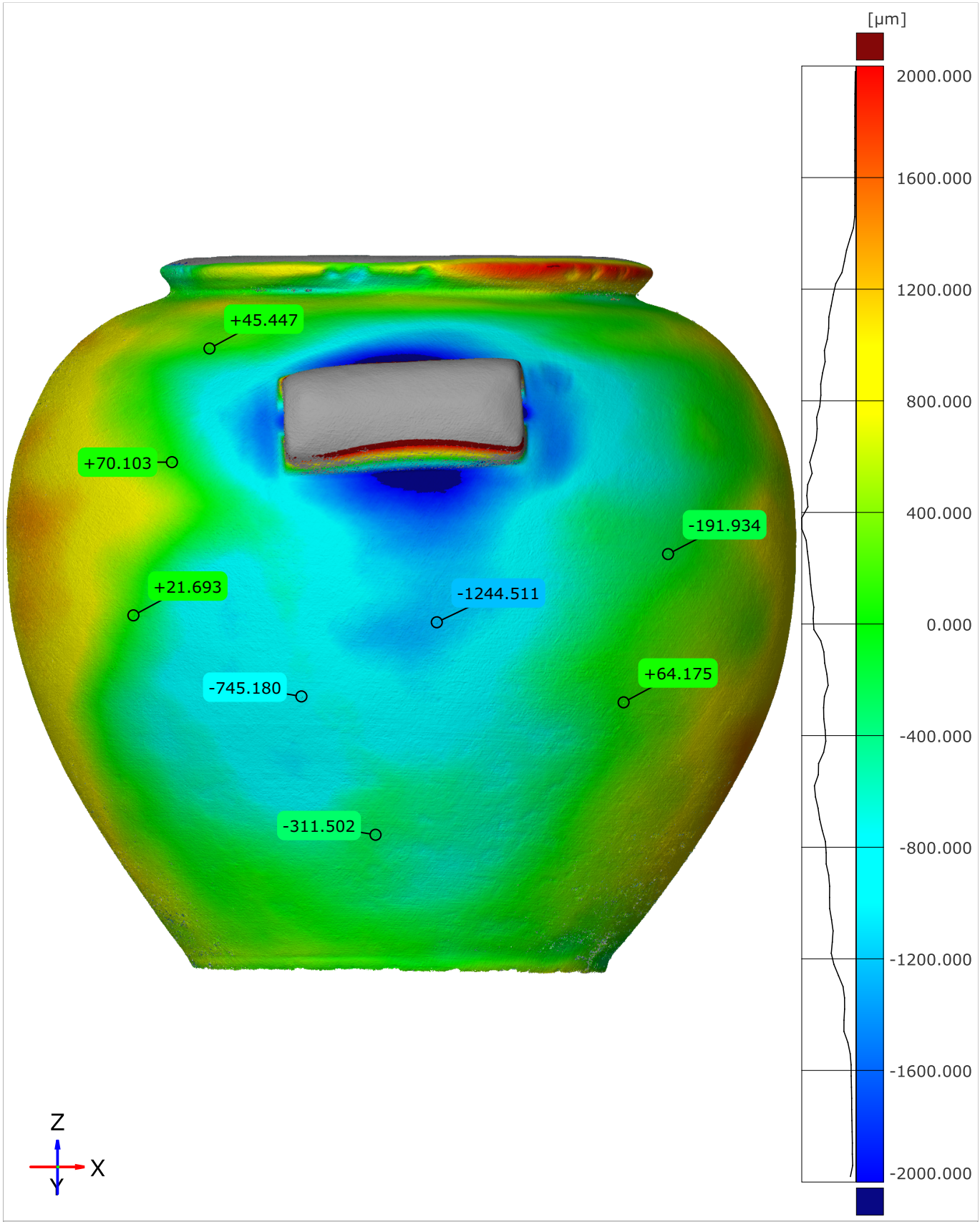
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

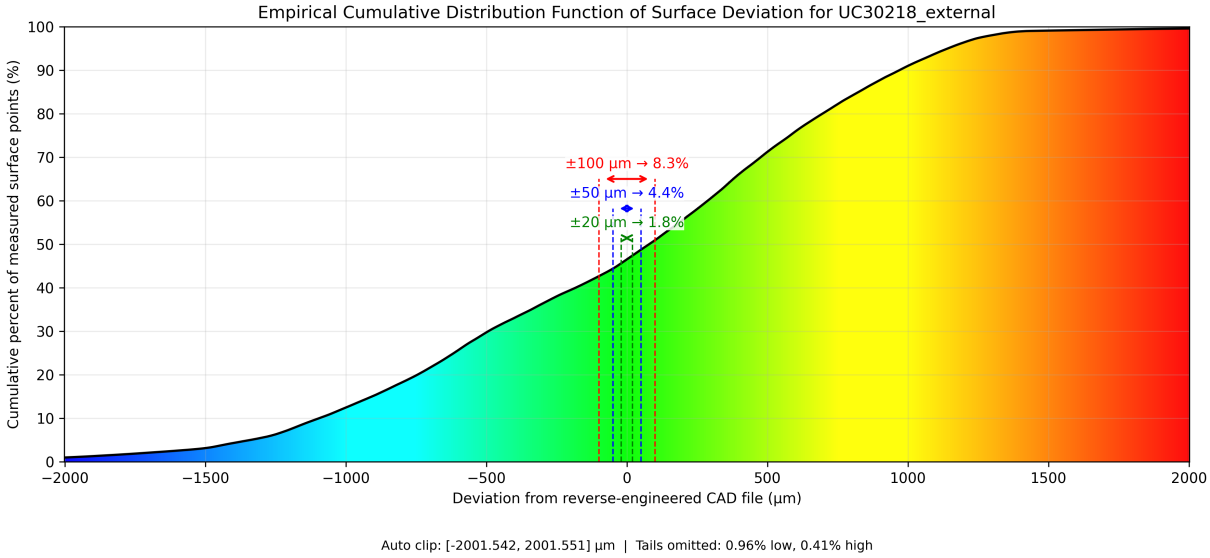

Figure 1.50: Surface Deviation ECDF (External)

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1.10.3 Internal

Circularity

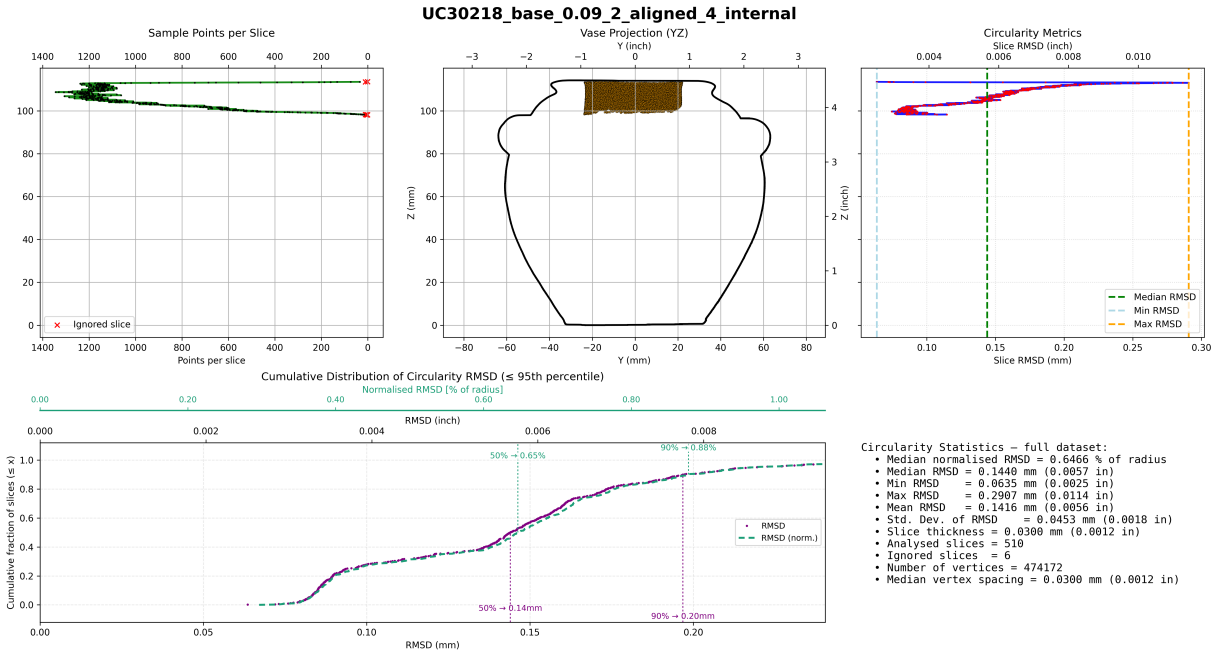

Figure 1.51: Circularity (Internal)

Concentricity

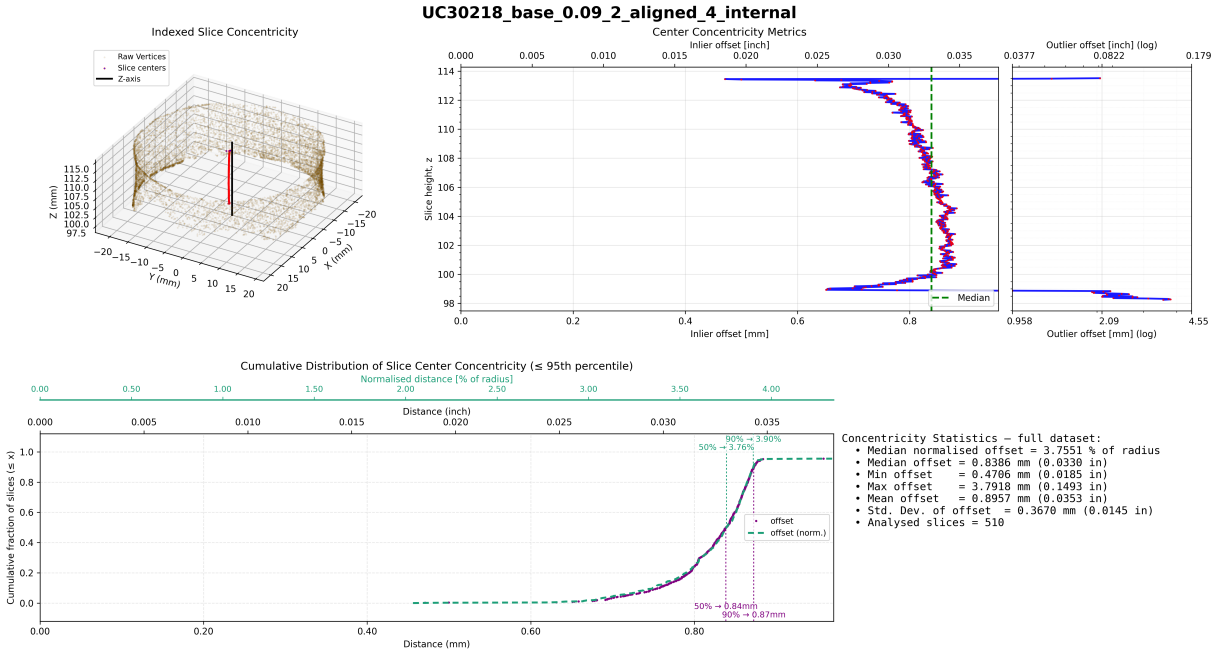

Figure 1.52: Concentricity (Internal)

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1.11 UC4354

1.11.1 Artifact Information





Accession Number	LDUCE-UC4354
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Stone vase, identified in museum register as black and white syenite, perhaps hornblende diorite (?), barrel-shaped type 39. From Naqada Tomb T 16.
Publications	Petrie, William Matthew Flinders, Naqada and Ballas: 1895
Production Period	Naqada II
Material	diorite
Dimensions	height: 7.7 cms; width: 6.4 cms; width: 2.5 ins
Notes	Collector: William Matthew Flinders Petrie

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1.11.2 External

Circularity

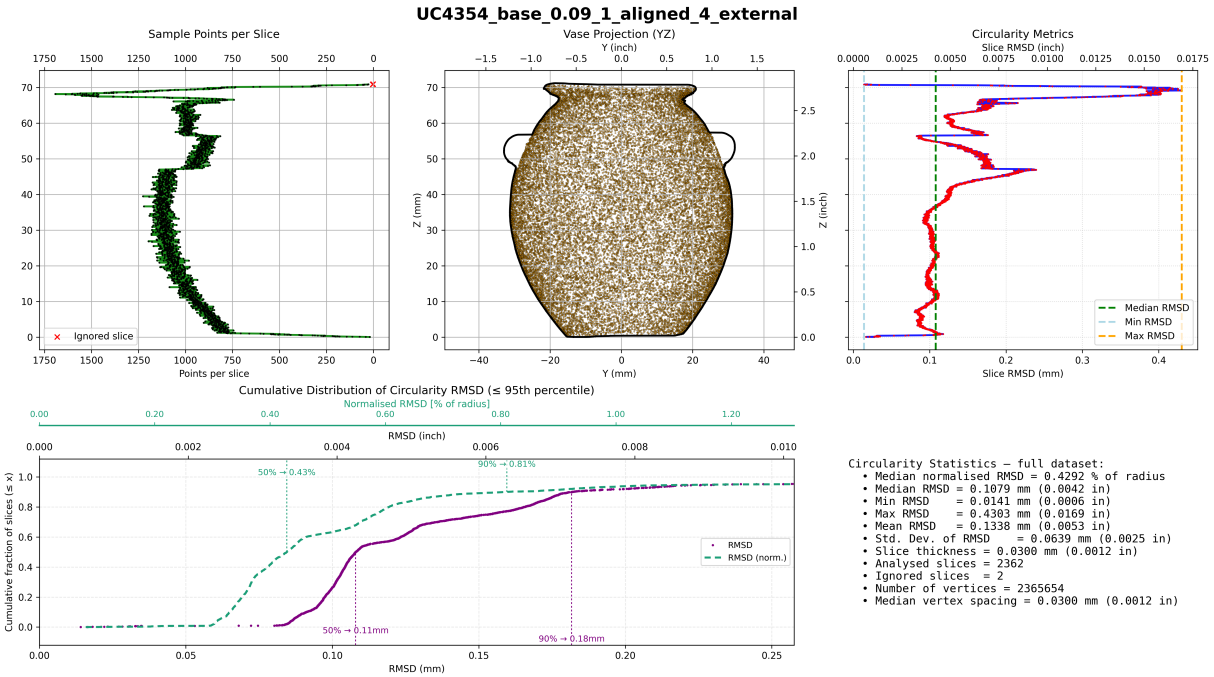

Figure 1.53: Circularity (External)

Concentricity

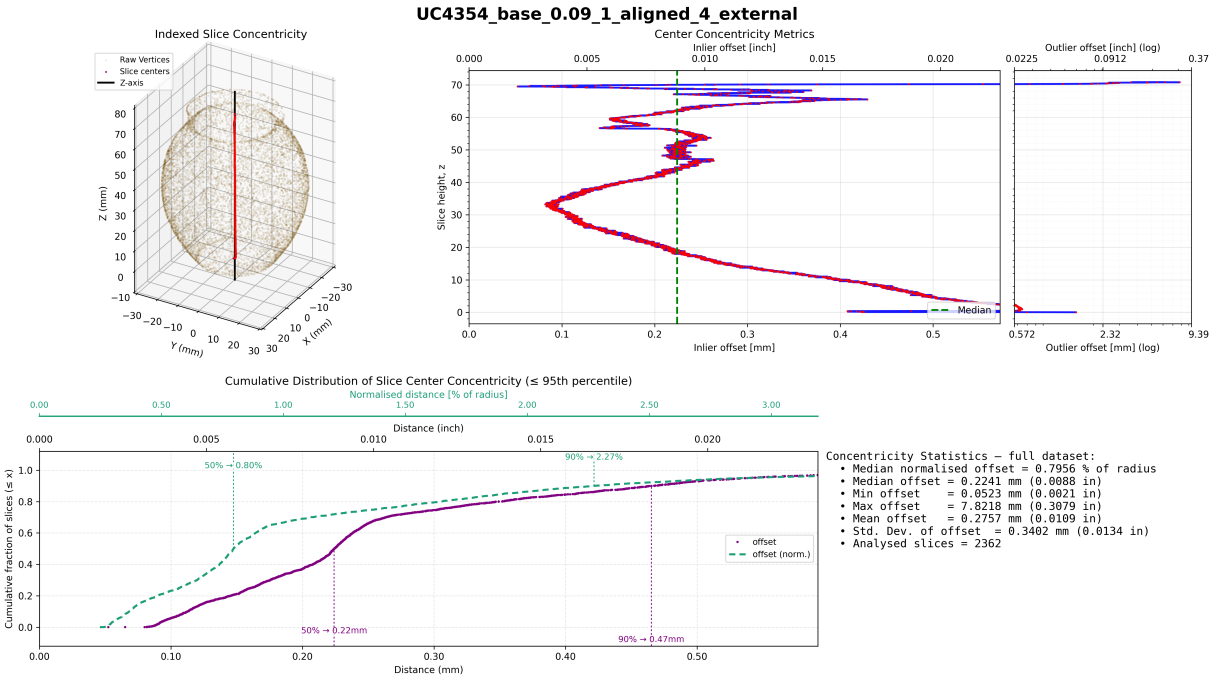

Figure 1.54: Concentricity (External)

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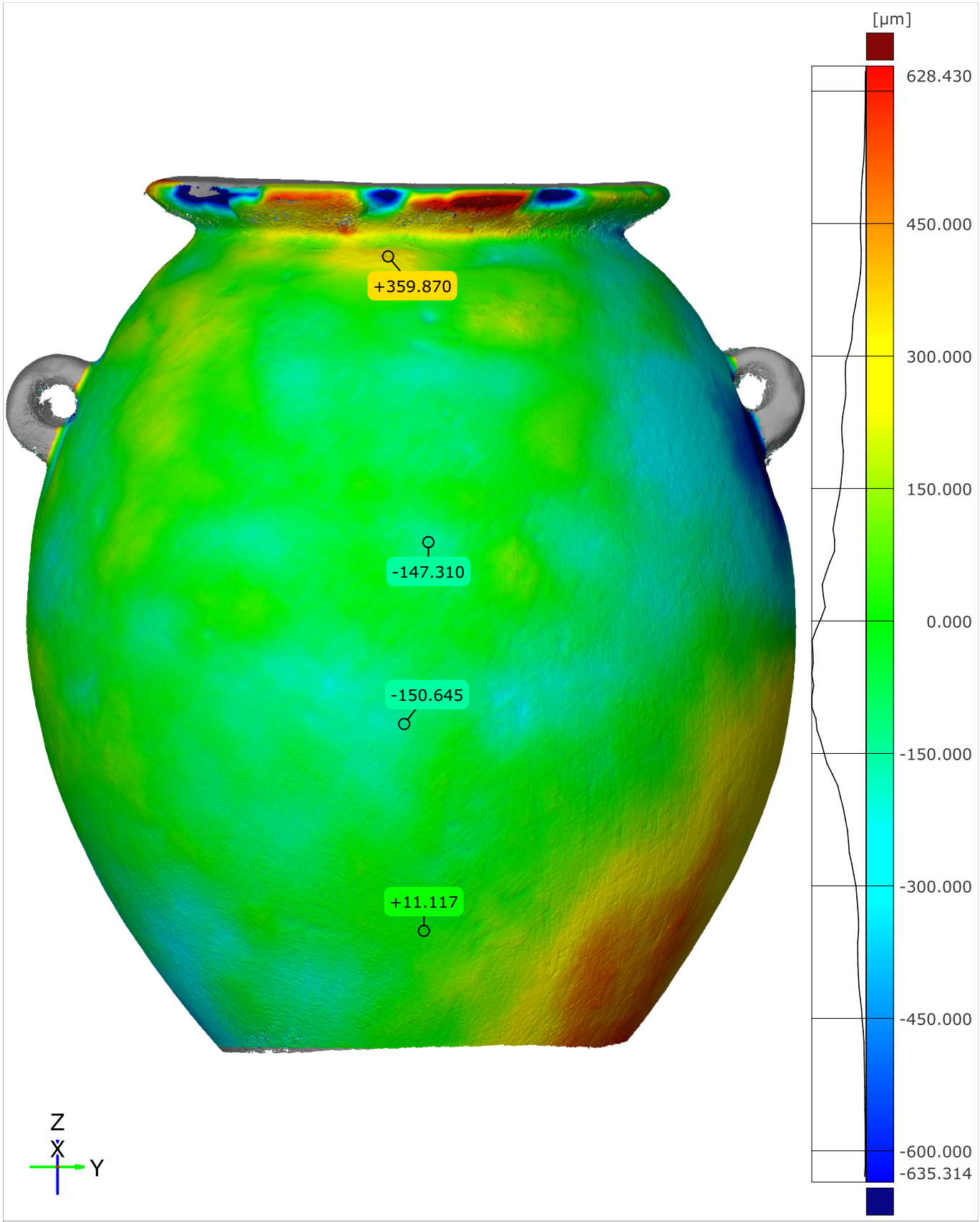
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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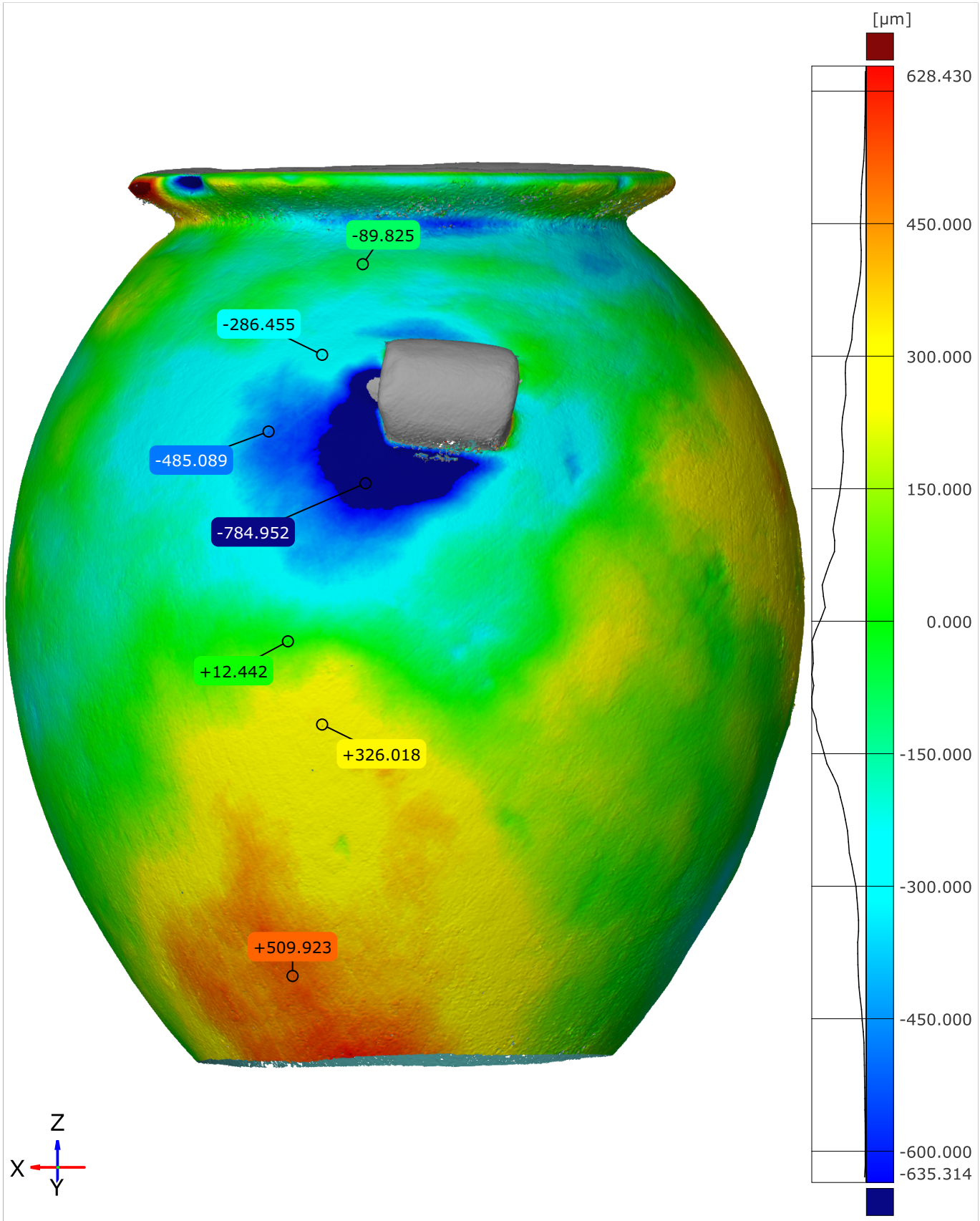
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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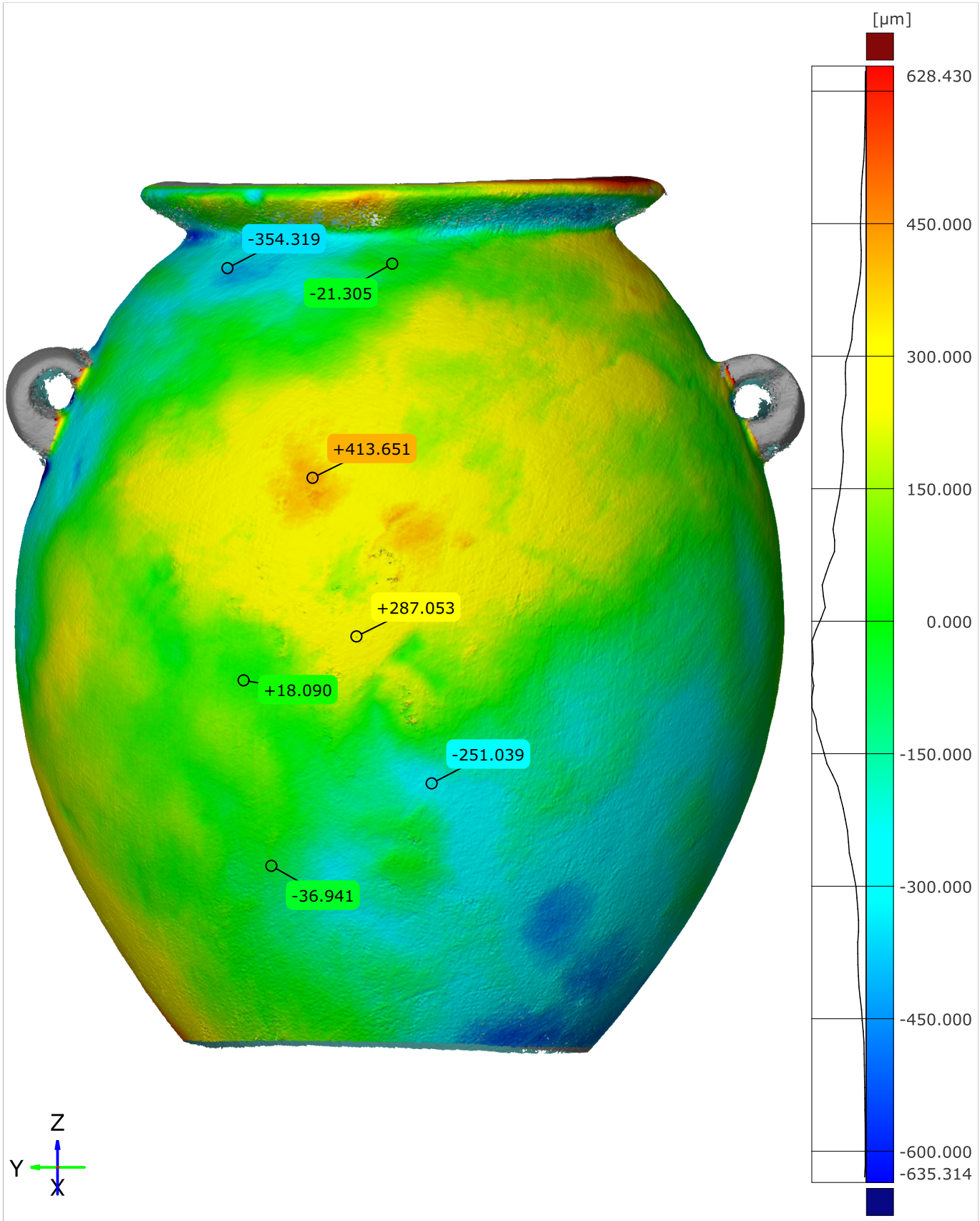
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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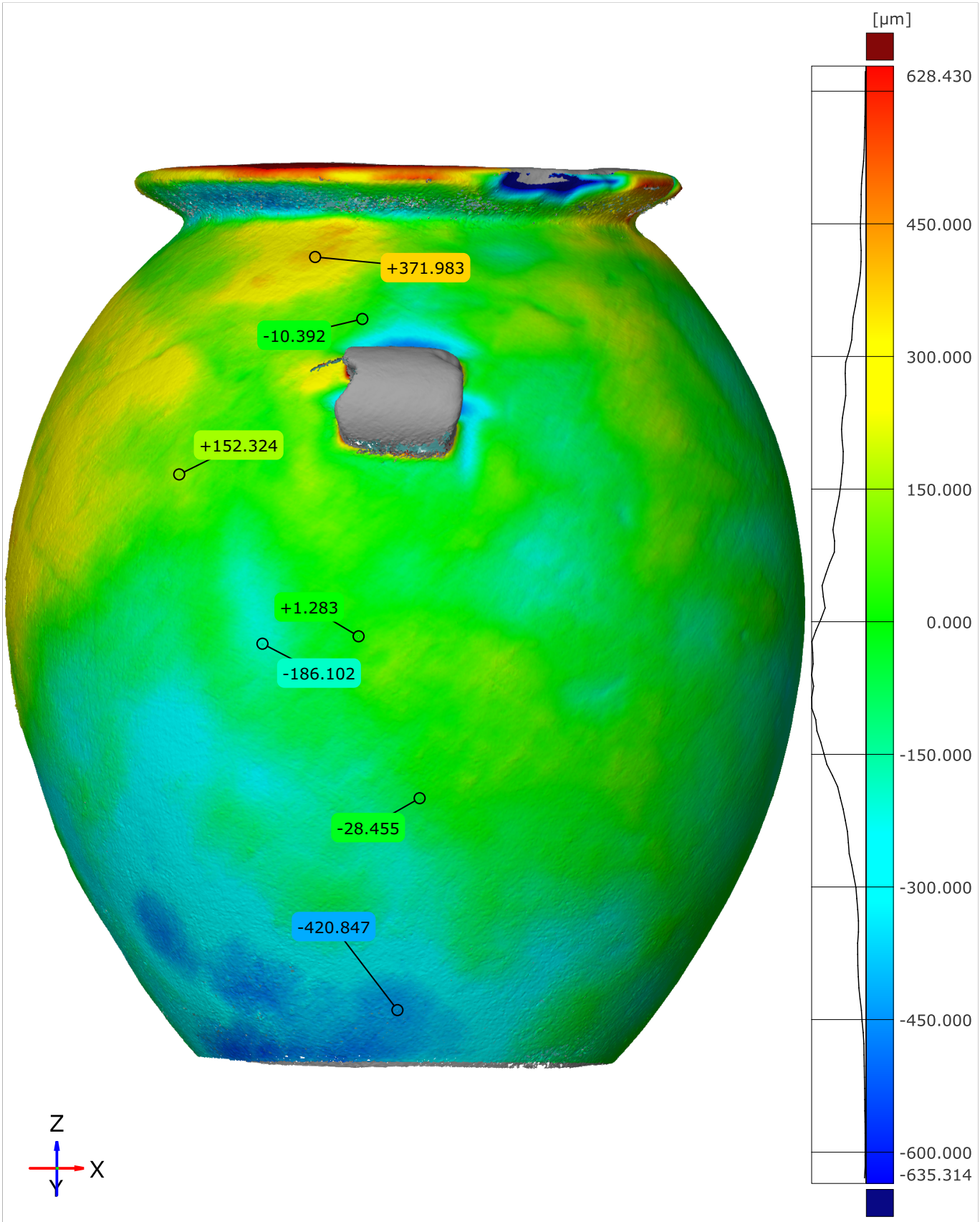
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

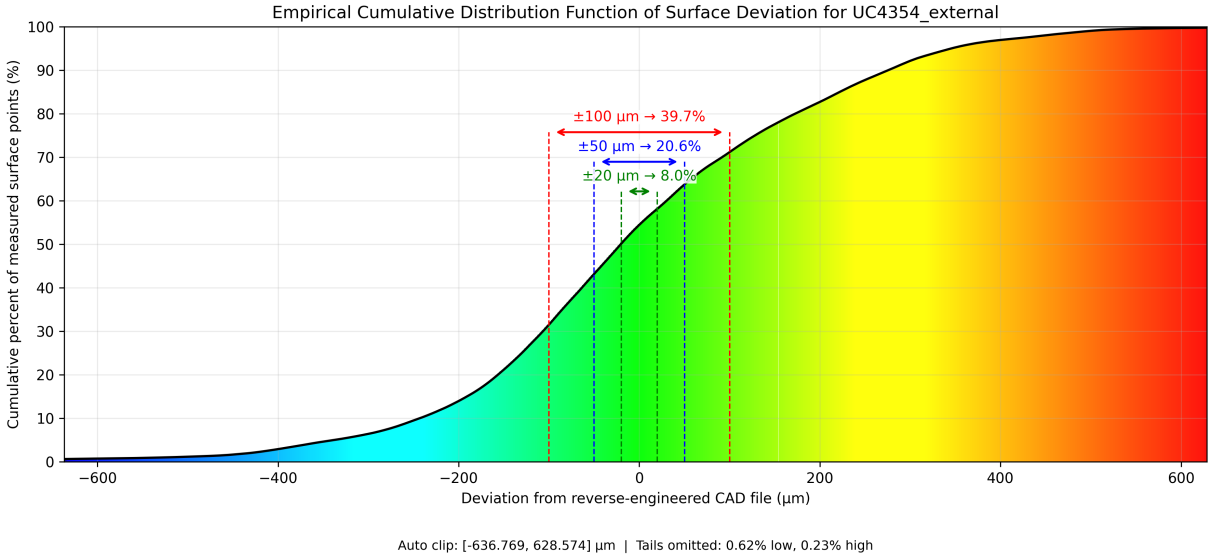

Figure 1.55: Surface Deviation ECDF (External)

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1.11.3 Internal

Circularity

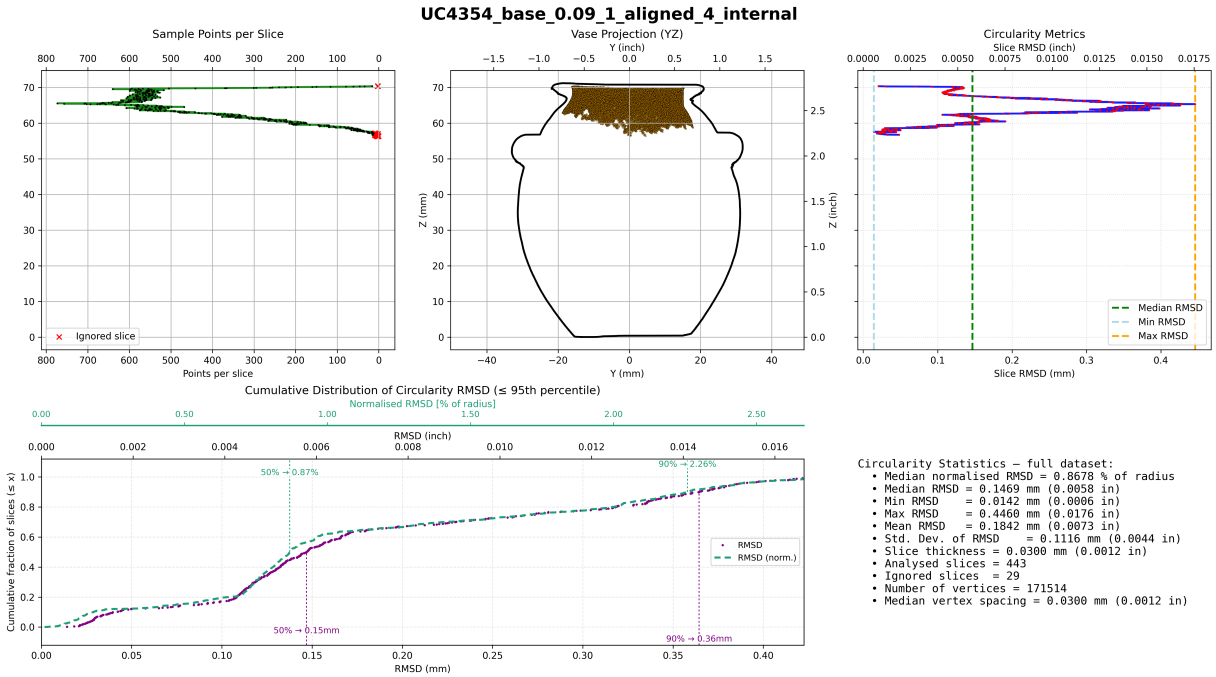

Figure 1.56: Circularity (Internal)

Concentricity

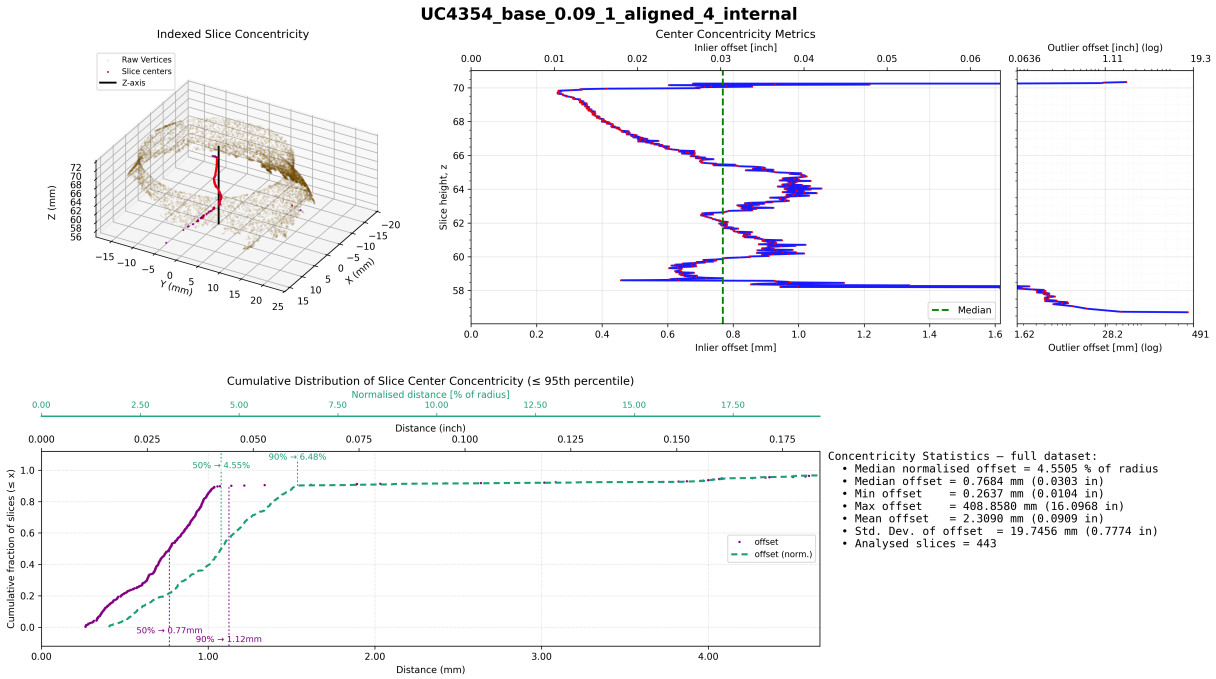

Figure 1.57: Concentricity (Internal)

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1.12 UC4356

1.12.1 Artifact Information





Accession Number	LDUCE-UC4356
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Stone vase, basalt, barrel shaped, type 55. From Naqada Tomb T 16.
Publications	
Production Period	Naqada II
Material	basalt
Dimensions	height: 15.2 cms; width: 11.3 cms; height: 6 ins; width: 4.4 ins with holes
Notes	Object Category: vases

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1.12.2 External

Circularity

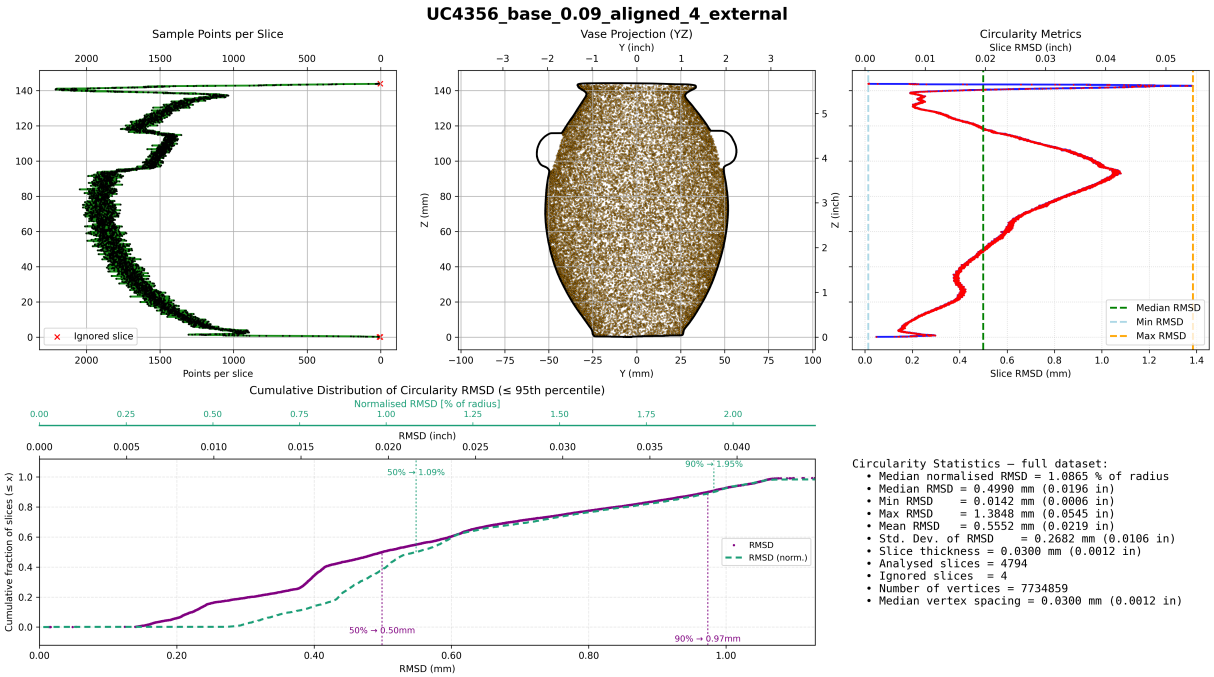

Figure 1.58: Circularity (External)

Concentricity

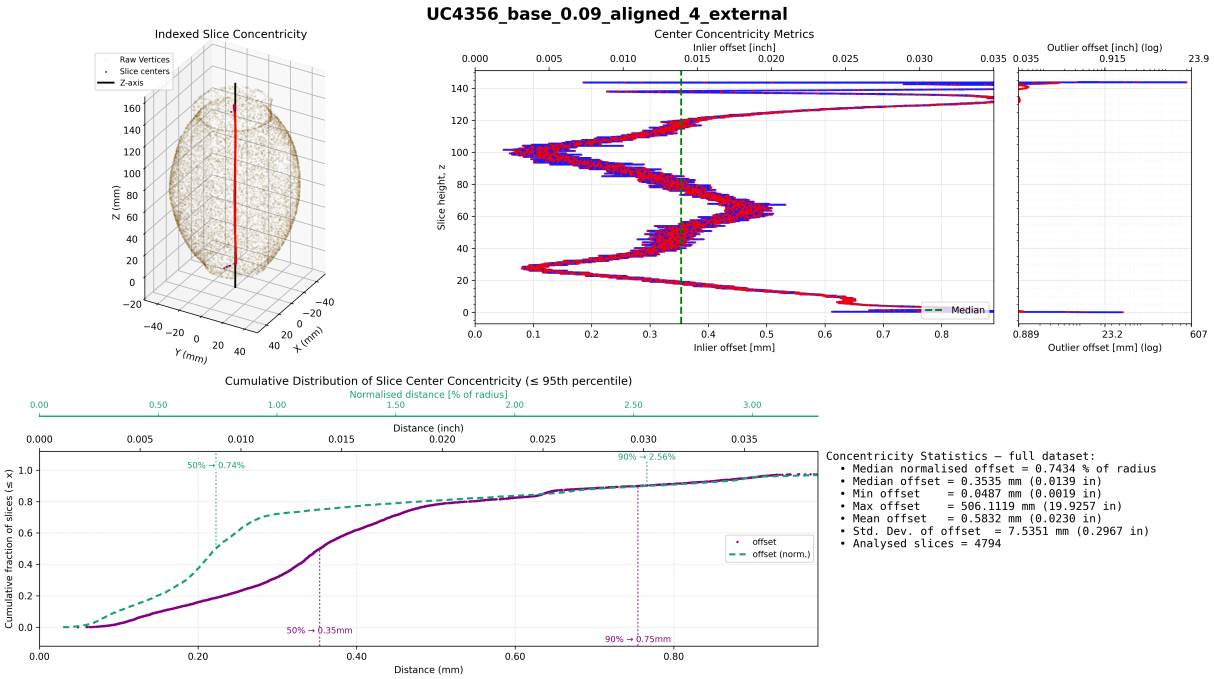

Figure 1.59: Concentricity (External)

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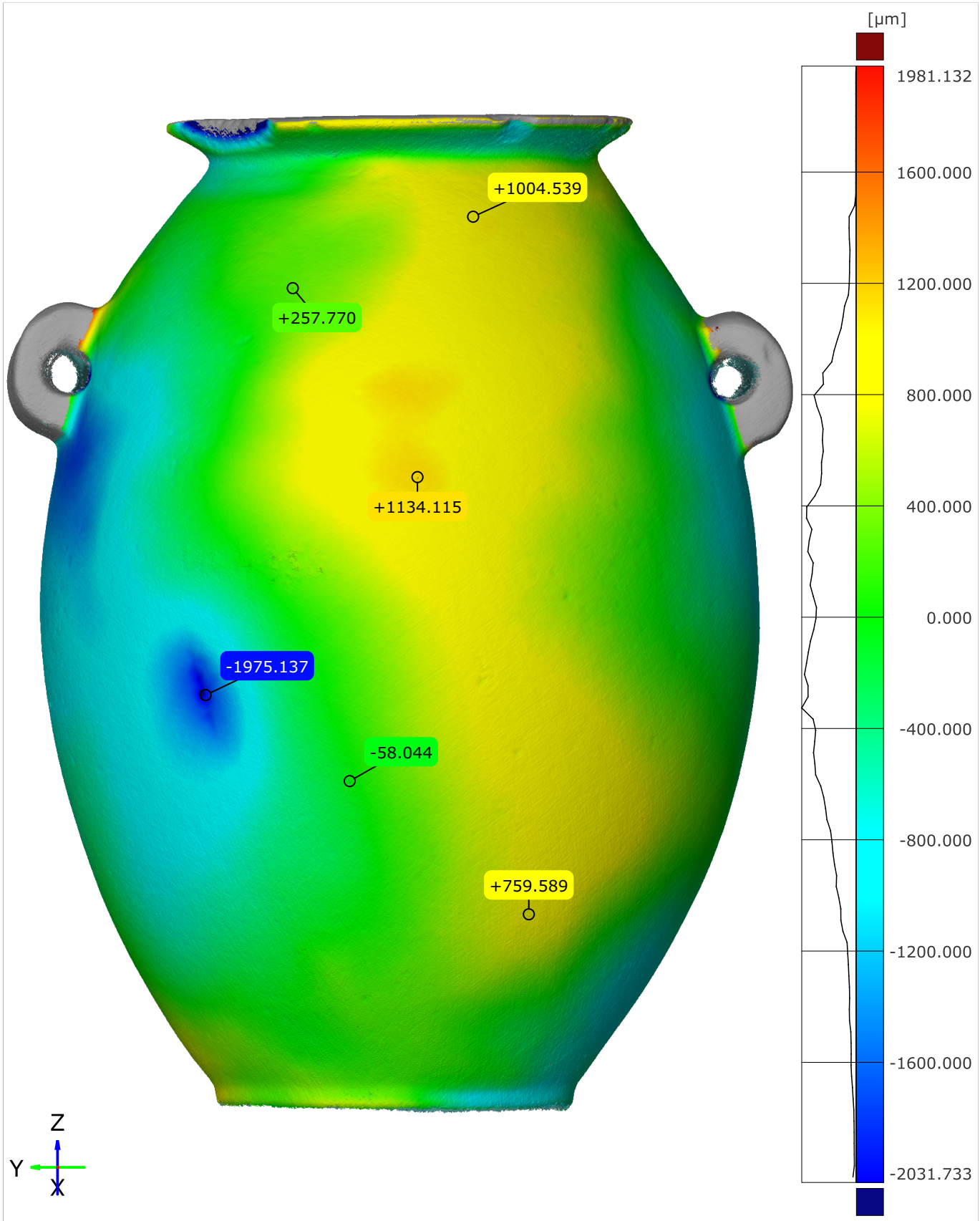
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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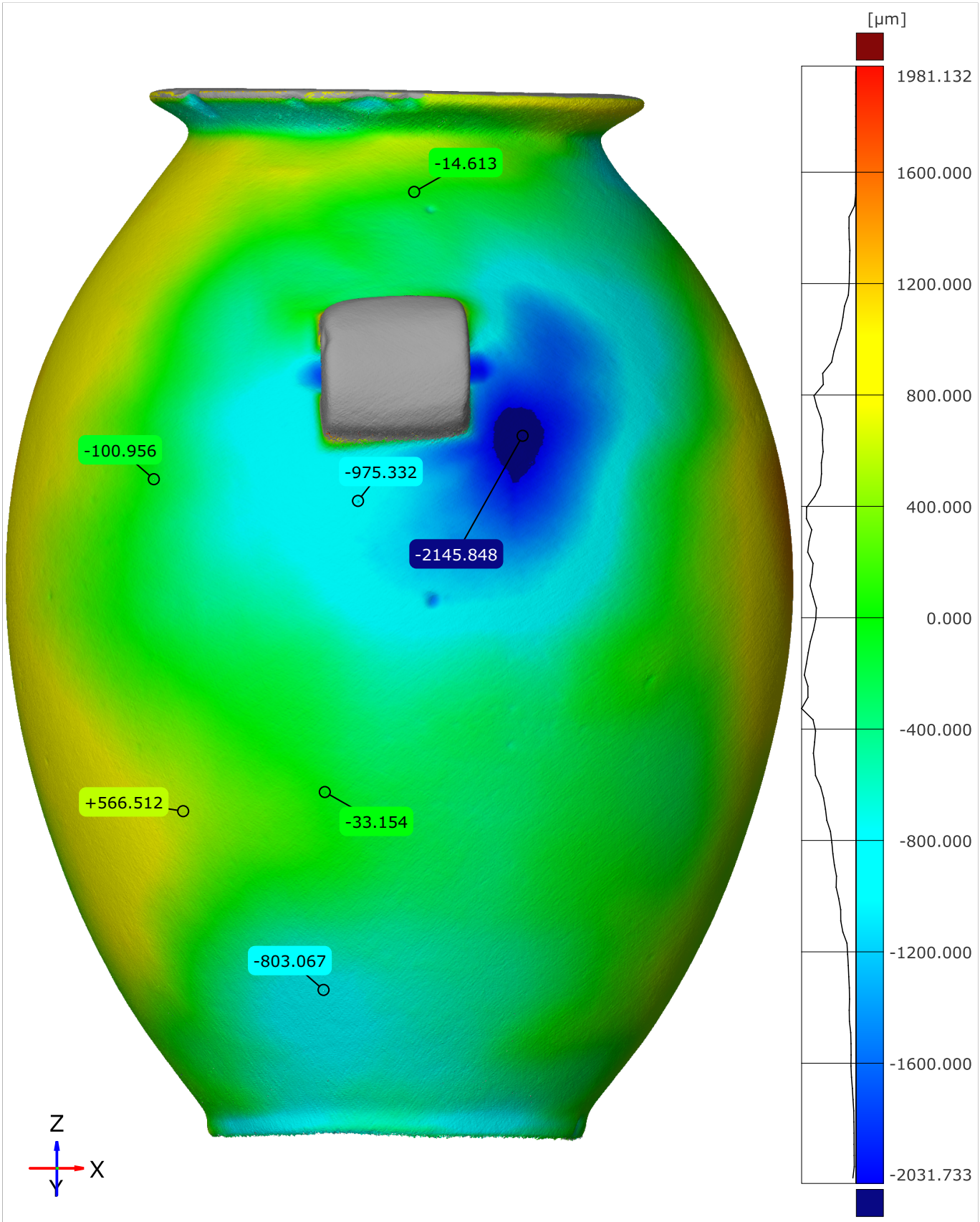
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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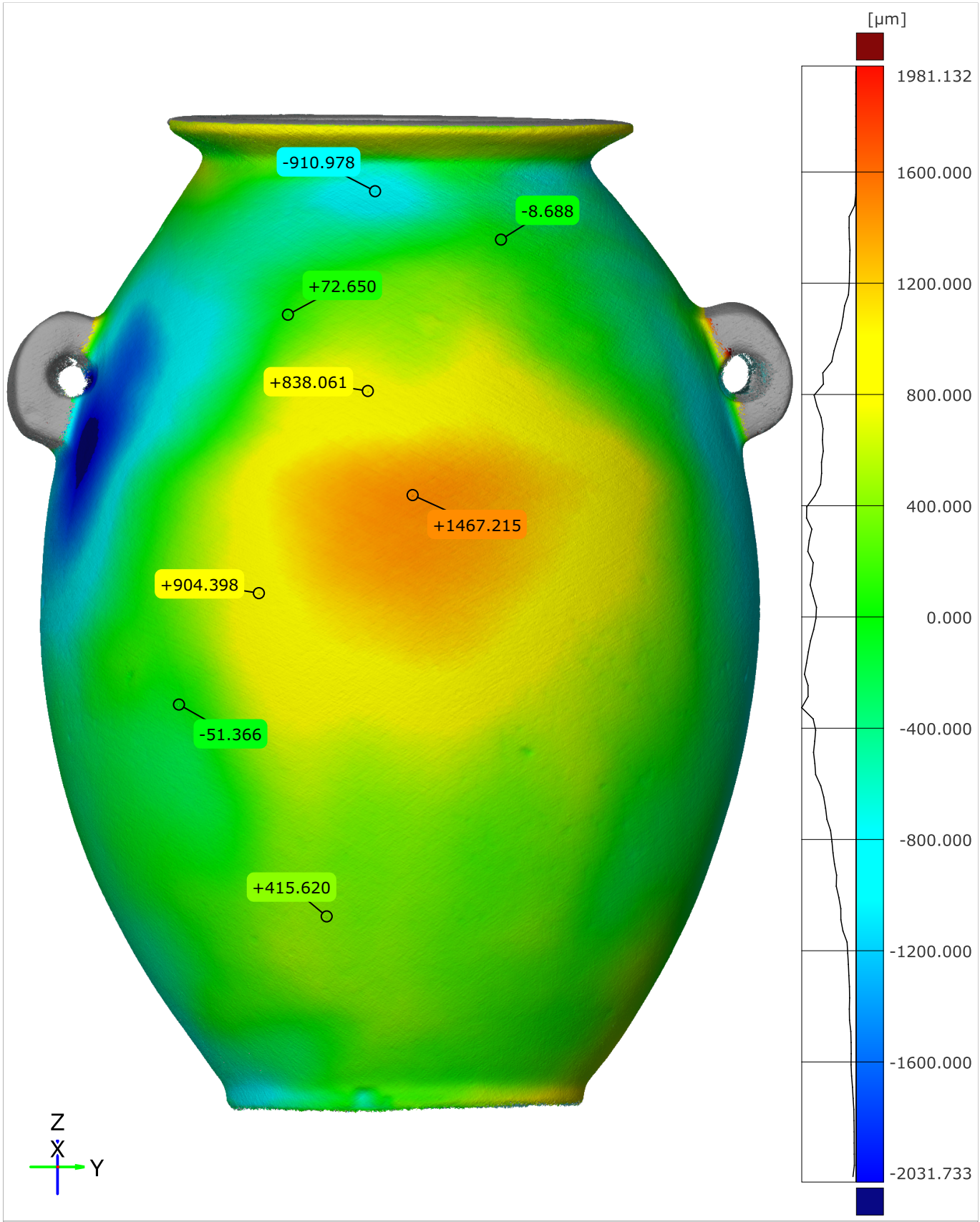
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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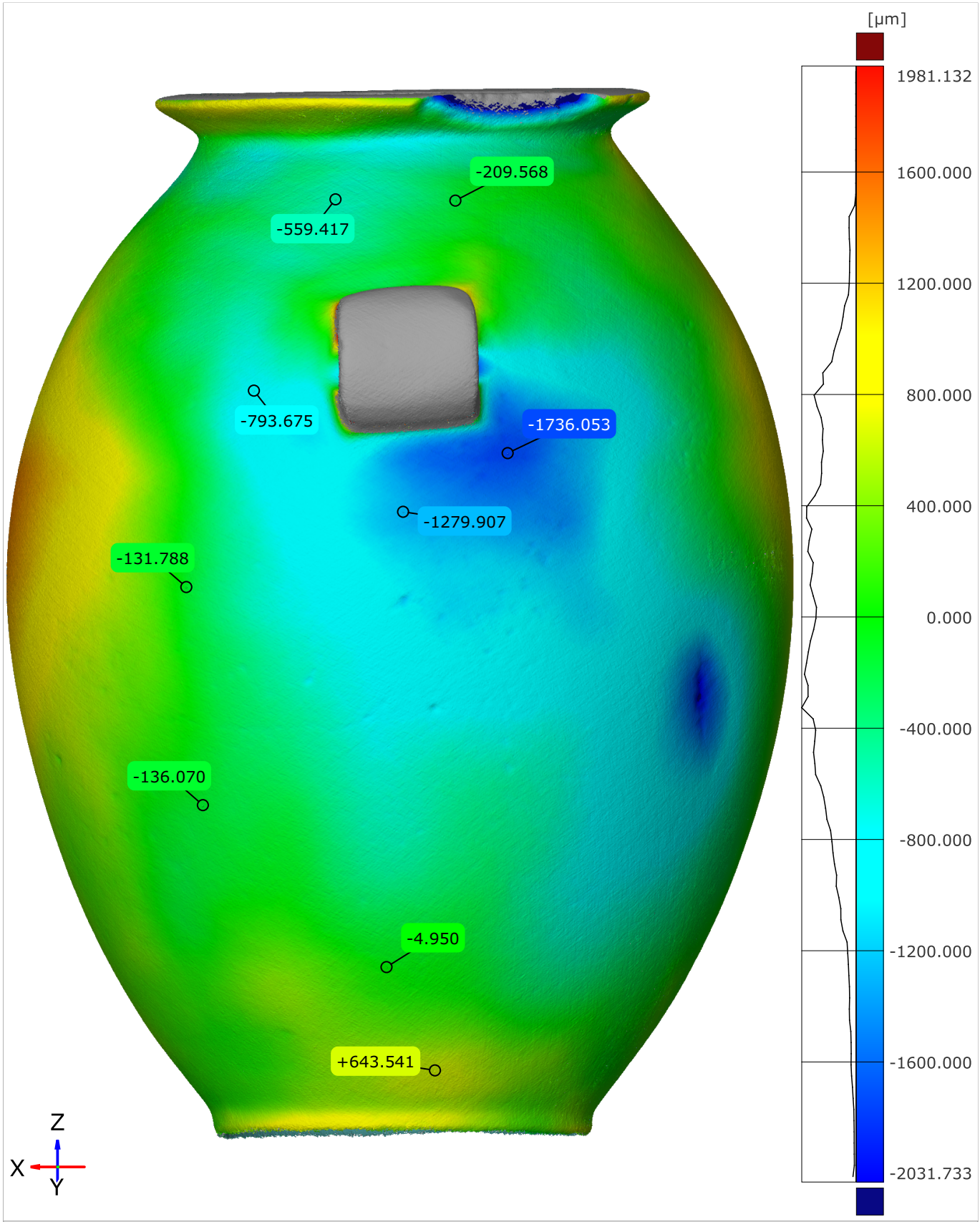
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

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Surface Deviation ECDF

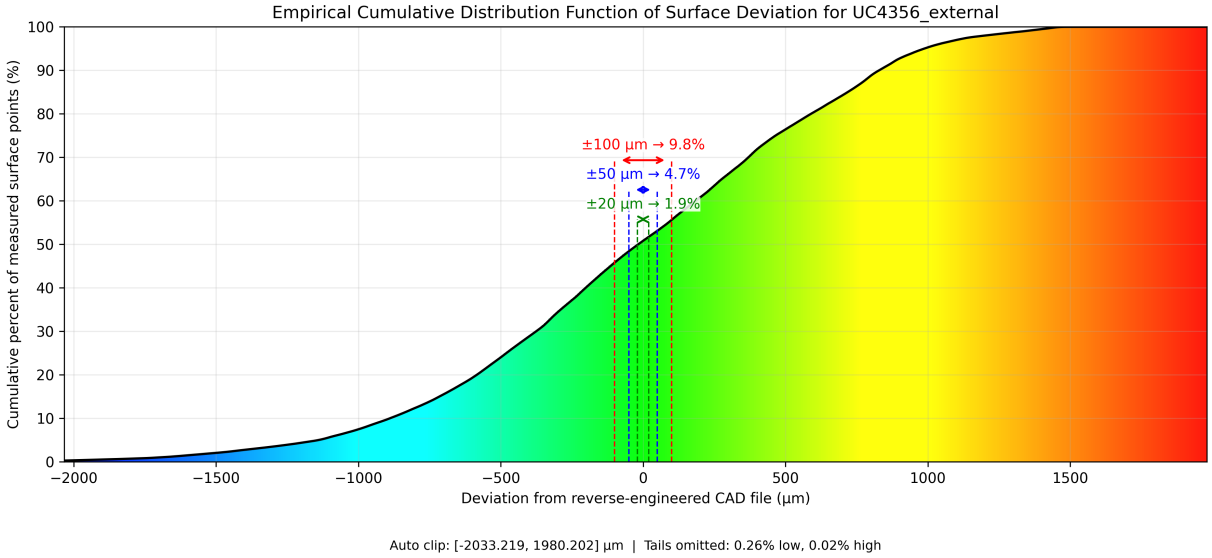

Figure 1.60: Surface Deviation ECDF (External)

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1.12.3 Internal

Circularity

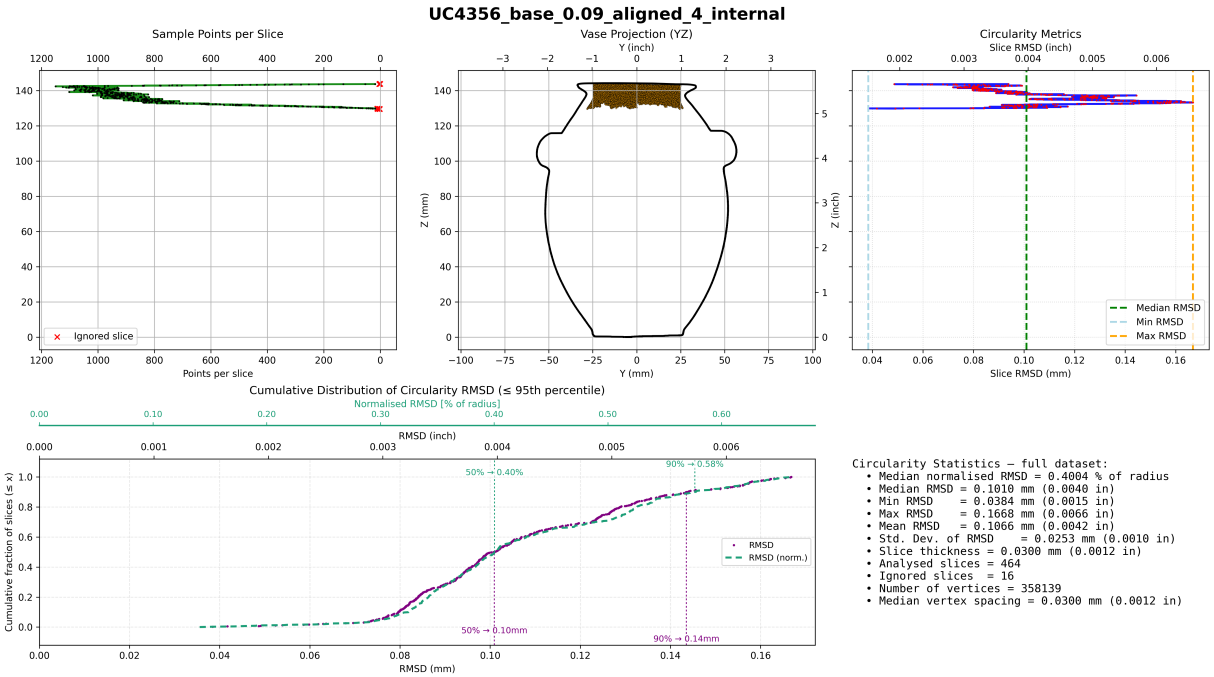

Figure 1.61: Circularity (Internal)

Concentricity

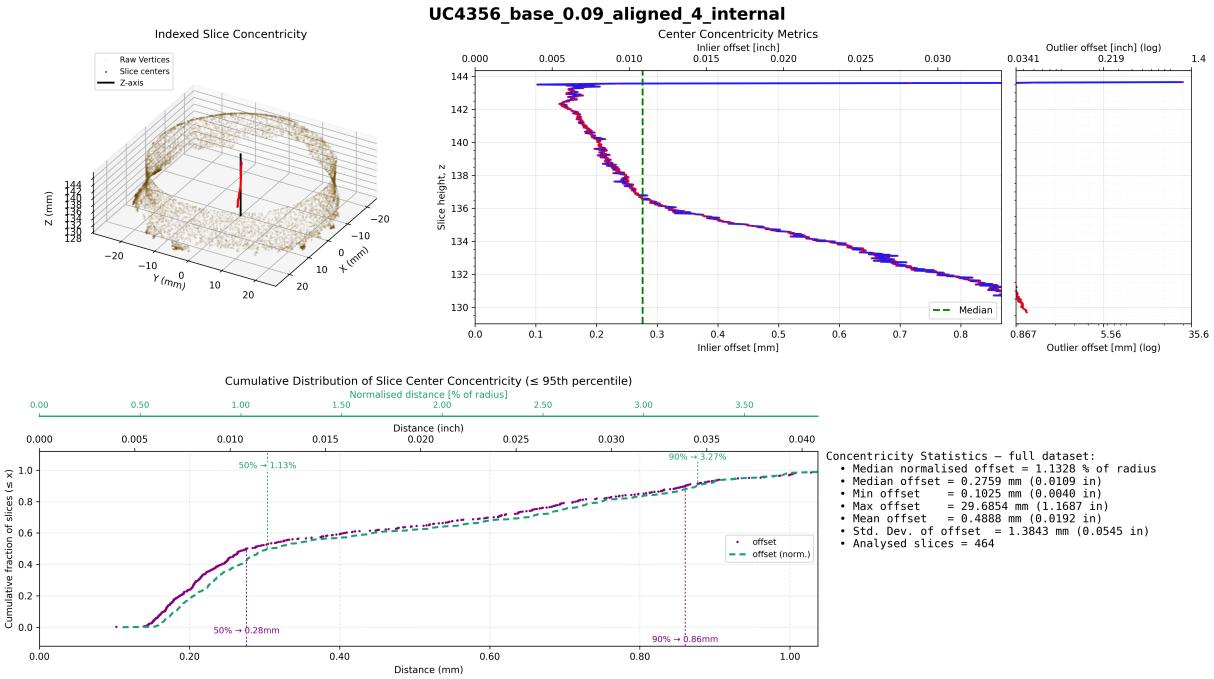

Figure 1.62: Concentricity (Internal)

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1.13 UC4379

1.13.1 Artifact Information



Accession Number	LDUCE-UC4379
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Vase of hard limestone, type 43, barrel shape, rim damaged. From Naqada Tomb 743.
Publications	
Production Period	Naqada II
Material	limestone
Dimensions	height: 6.8 cms; width: 6.2 cms; height: 2.7 ins; width: 2.4 ins
Notes	Object Category: vases

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1.13.2 External

Circularity

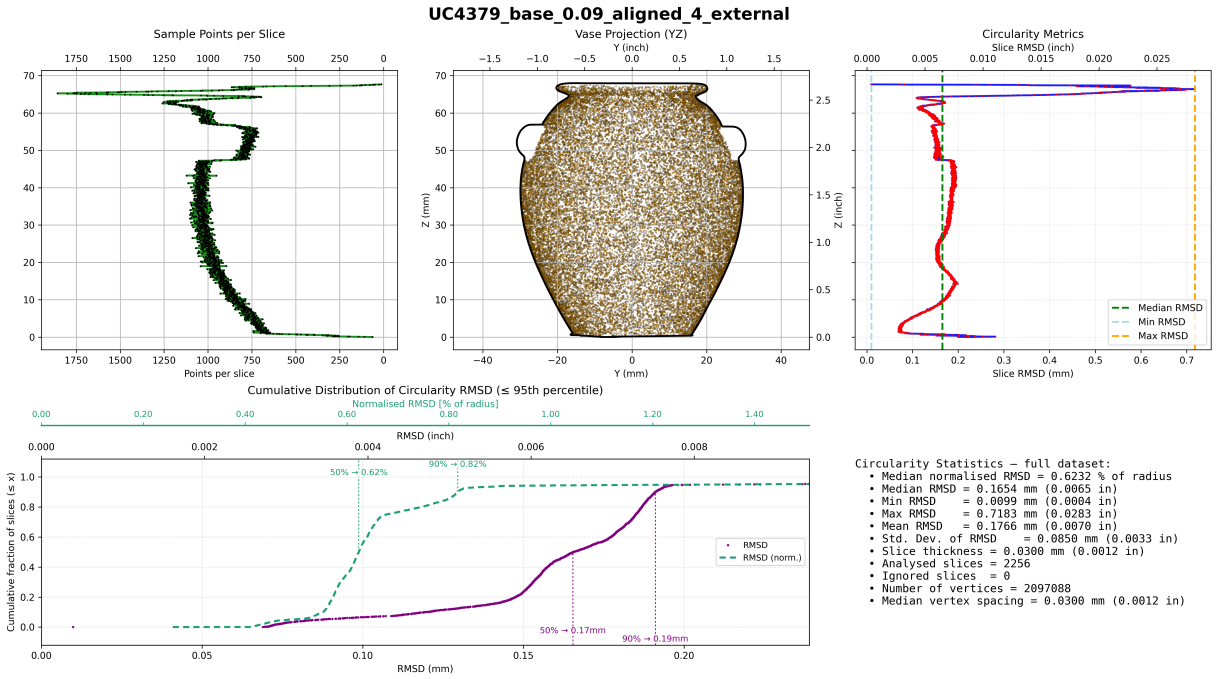

Figure 1.63: Circularity (External)

Concentricity

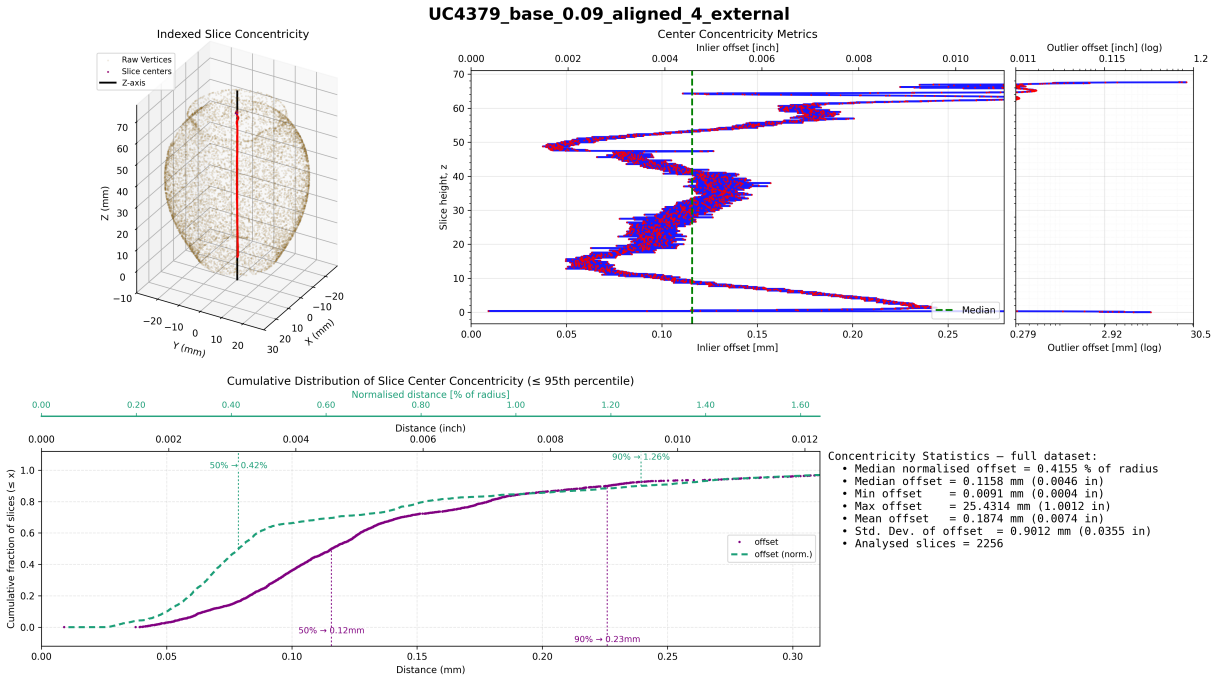

Figure 1.64: Concentricity (External)

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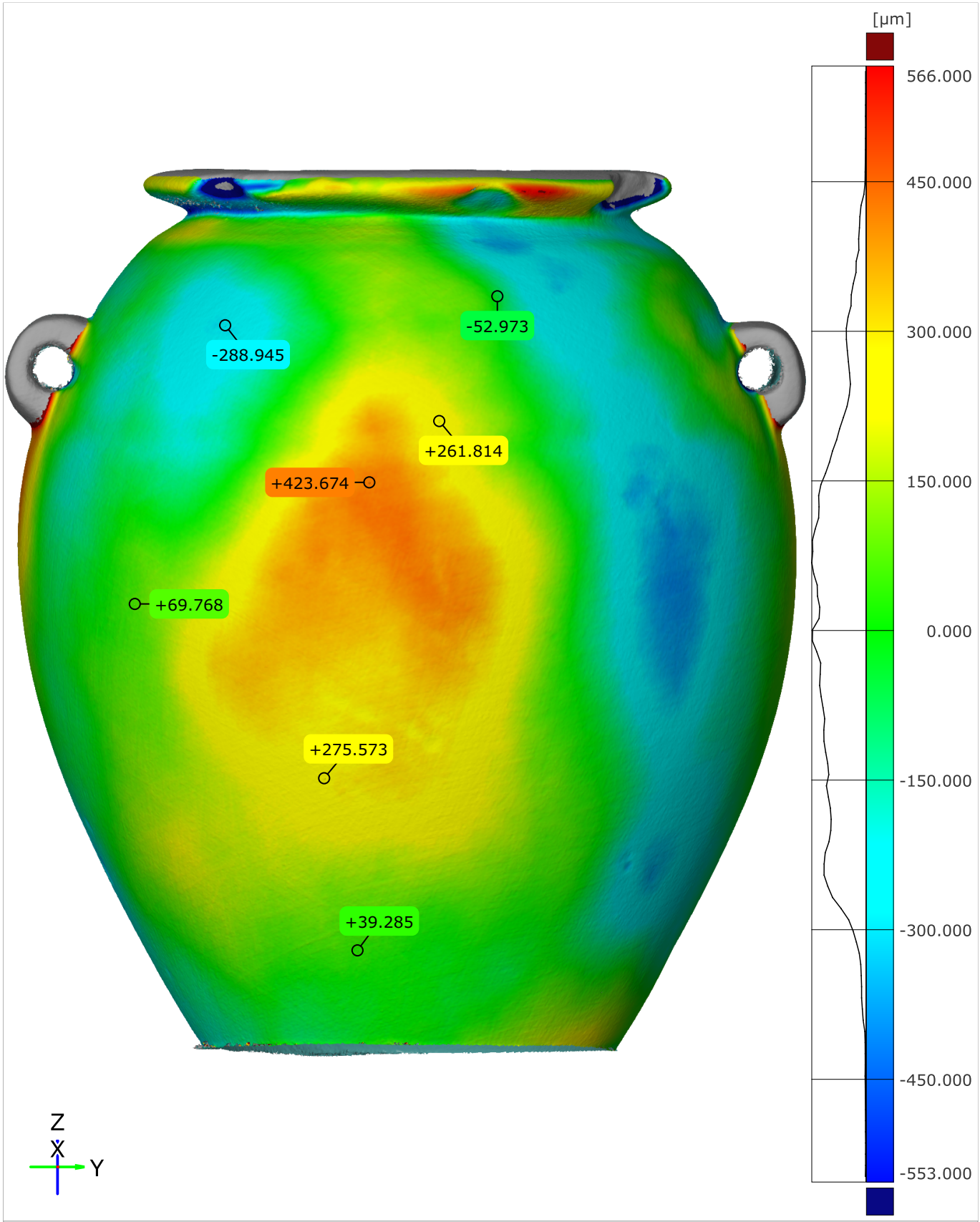
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

Petrie Museum of Egyptian Archaeology UC4379 1/4

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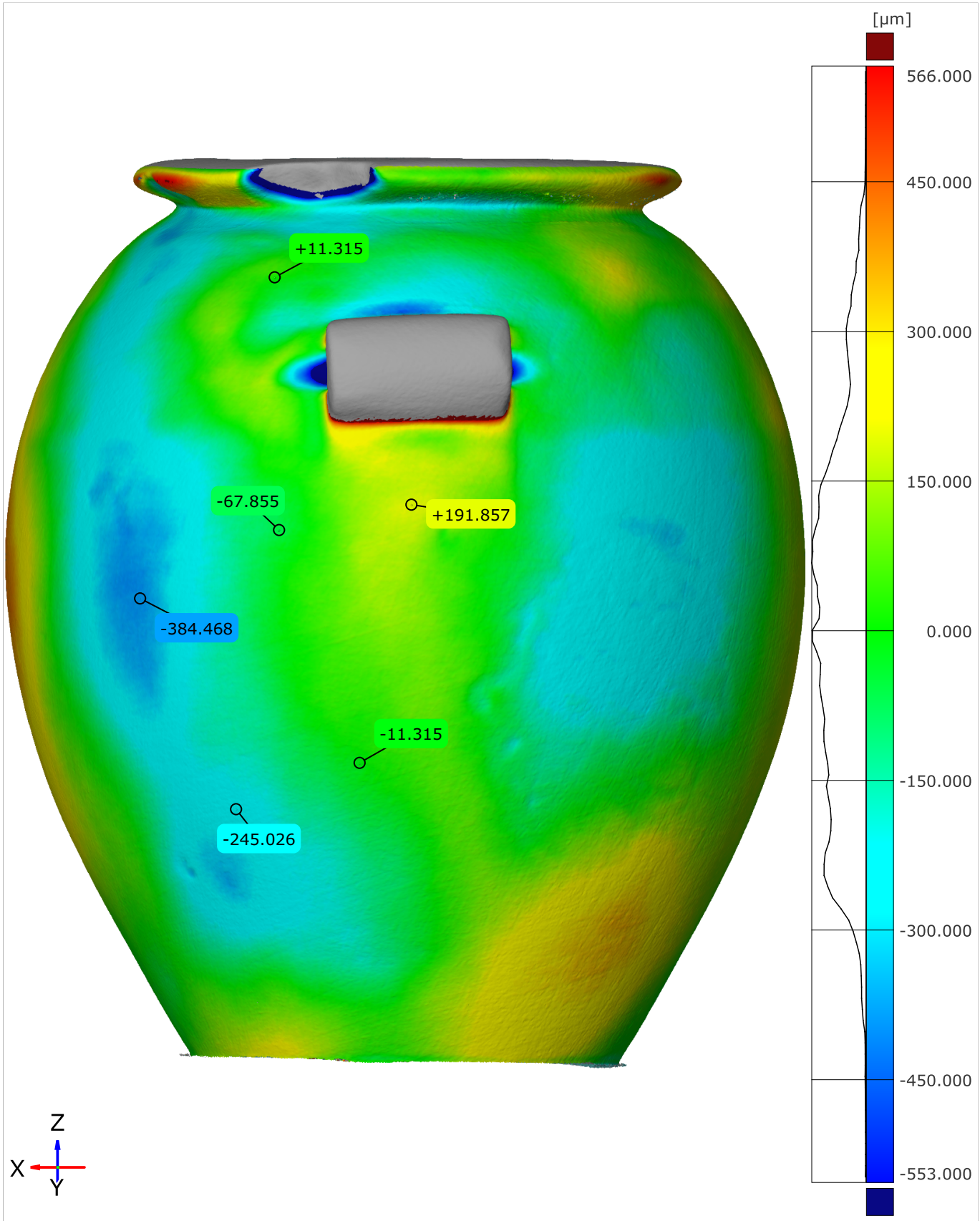
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

Petrie Museum of Egyptian Archaeology UC4379 2/4

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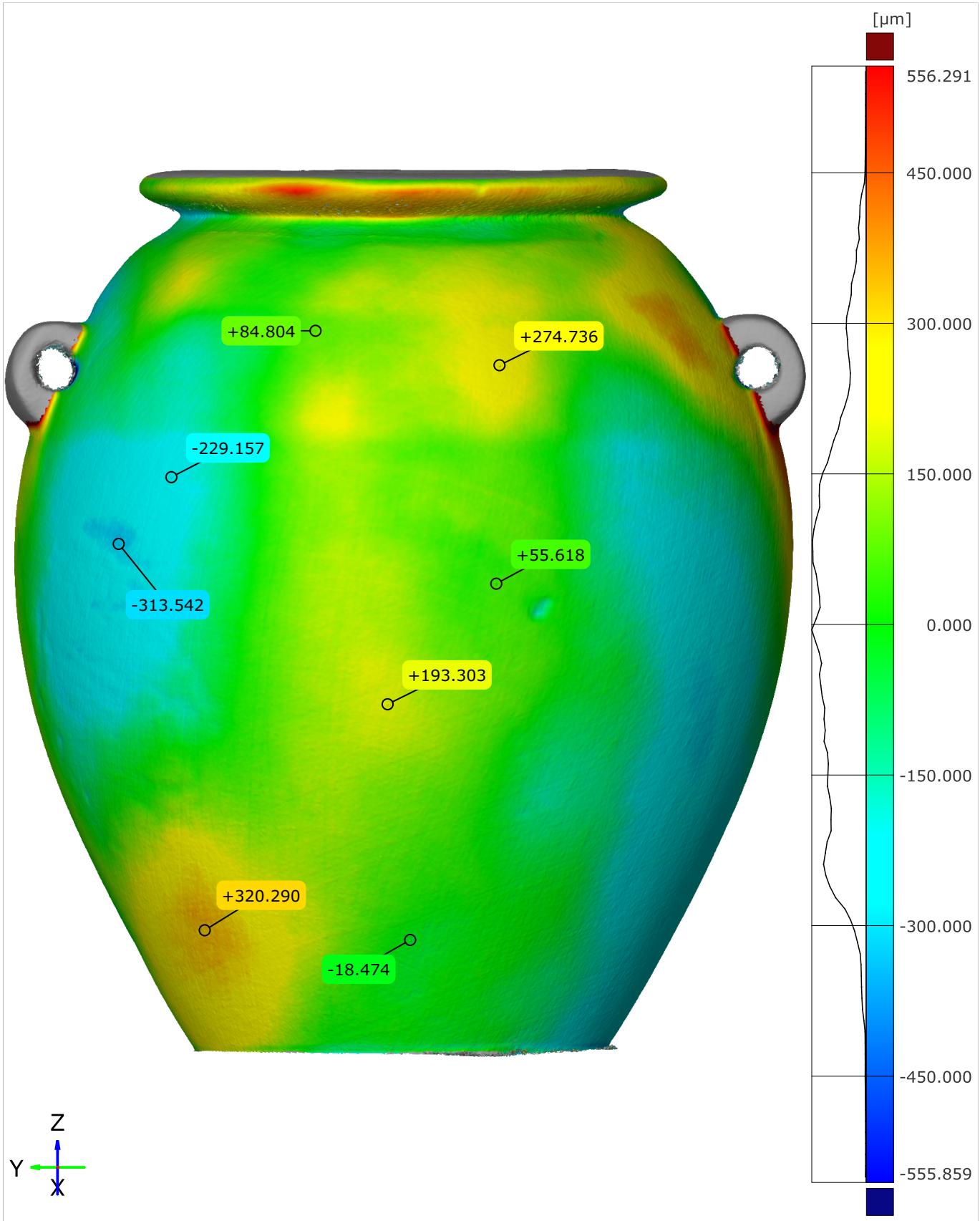
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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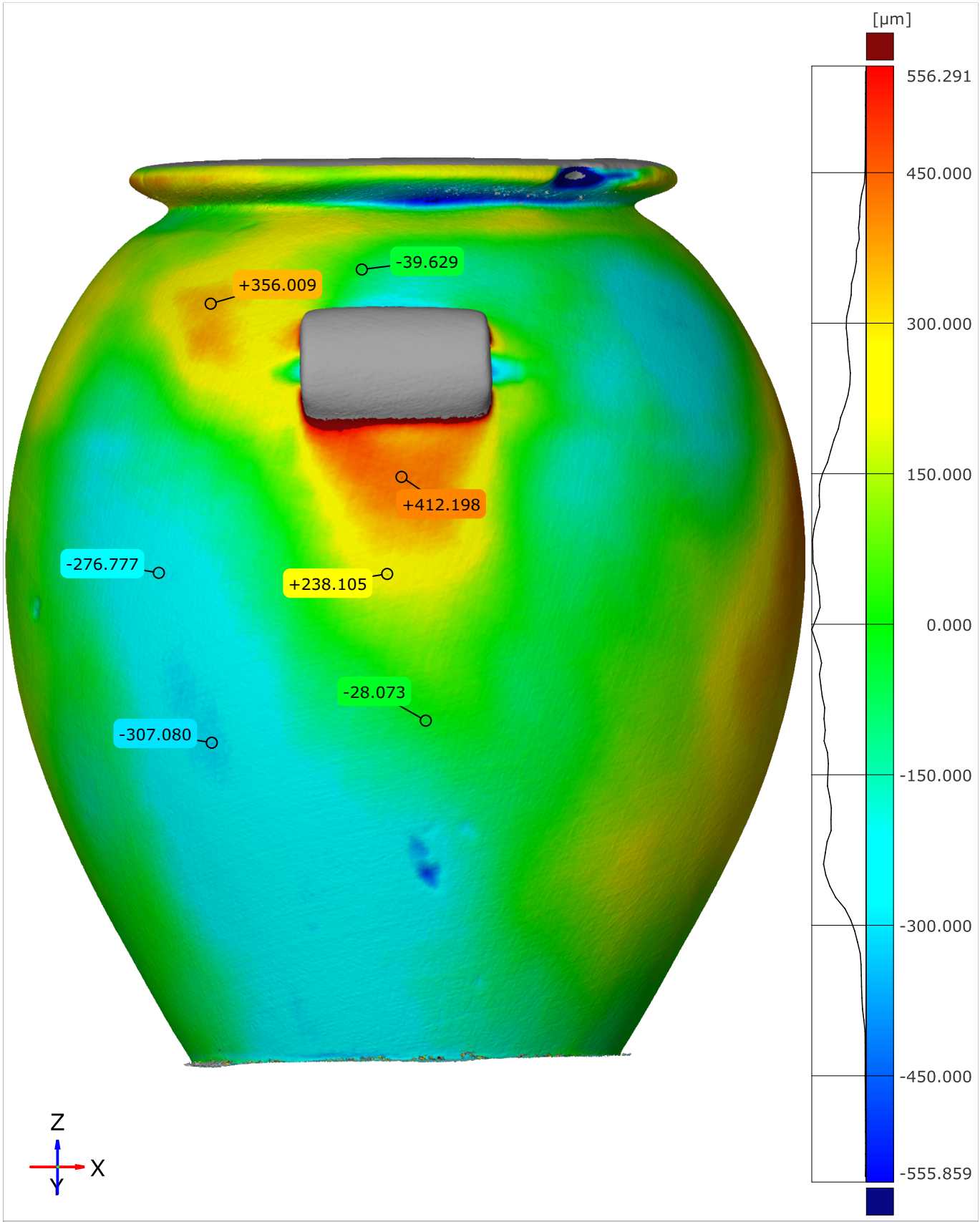
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

Petrie Museum of Egyptian Archaeology UC4379 4/4

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Surface Deviation ECDF

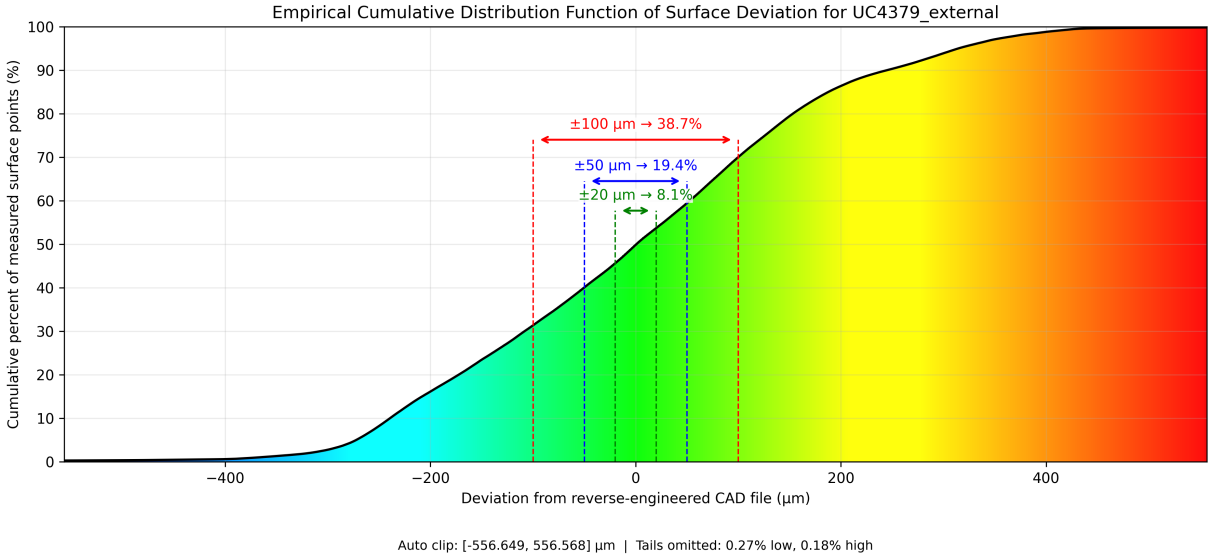

Figure 1.65: Surface Deviation ECDF (External)

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1.13.3 Internal

Circularity

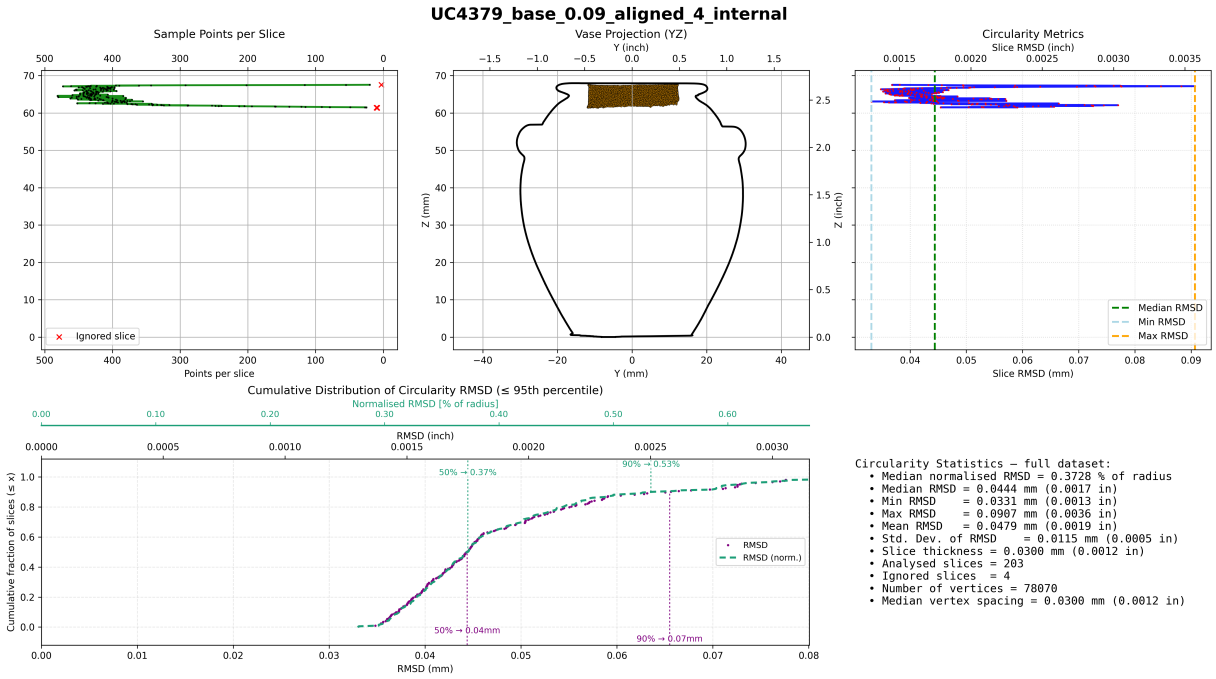

Figure 1.66: Circularity (Internal)

Concentricity

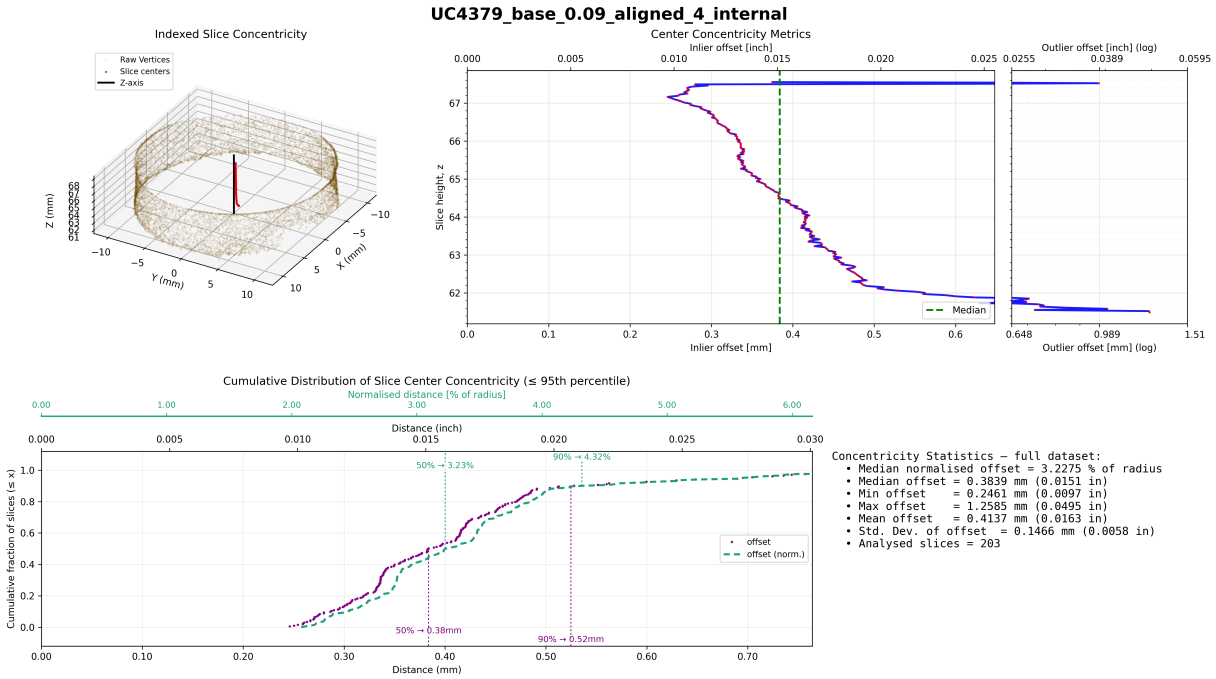

Figure 1.67: Concentricity (Internal)

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1.14 UC4649

1.14.1 Artifact Information



Accession Number	LDUCE-UC4649
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Vase of diorite, squat, type 15, rim and one handle broken. From Naqada Cemetery T Tomb 20.
Publications	
Production Period	Naqada III
Material	diorite
Dimensions	diameter: 4.1 cms; height: 7.2 cms
Notes	Object Category: vessels

1.14.2 External

Circularity

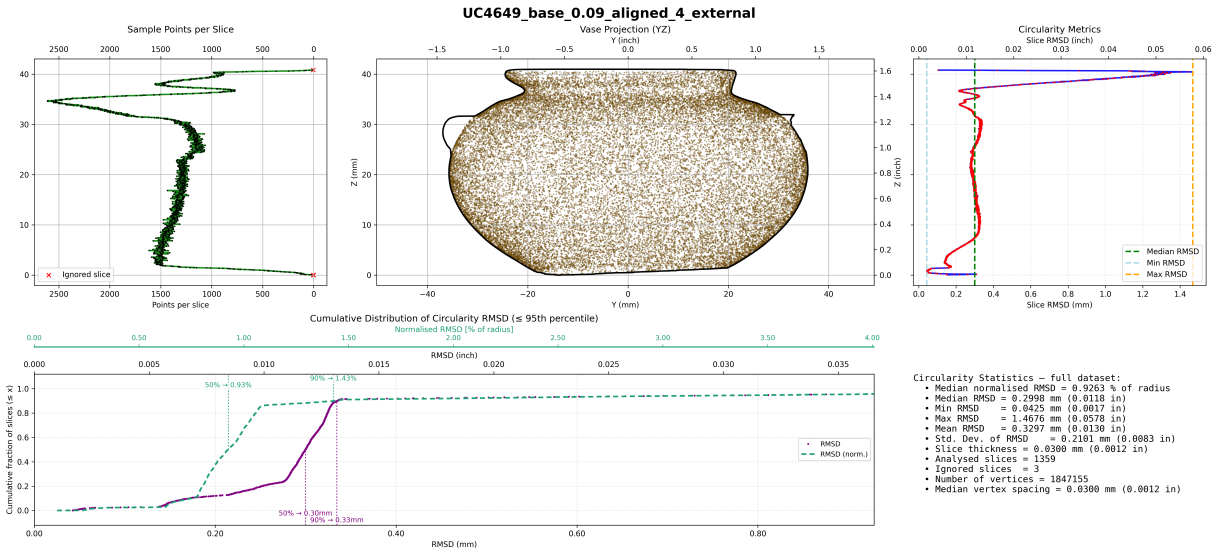

Figure 1.68: Circularity (External)

Concentricity

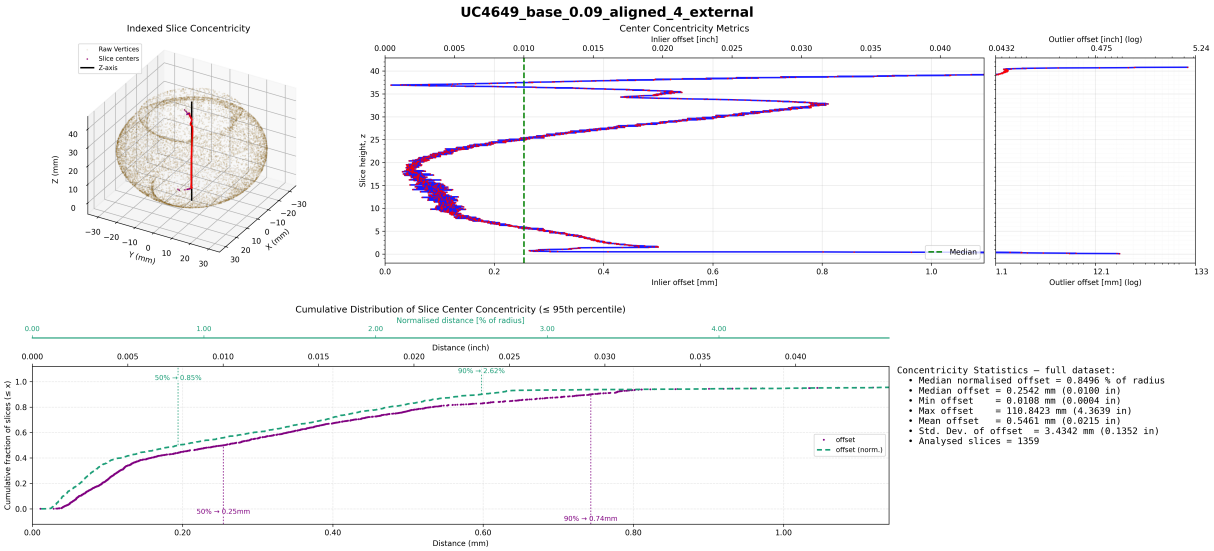

Figure 1.69: Concentricity (External)

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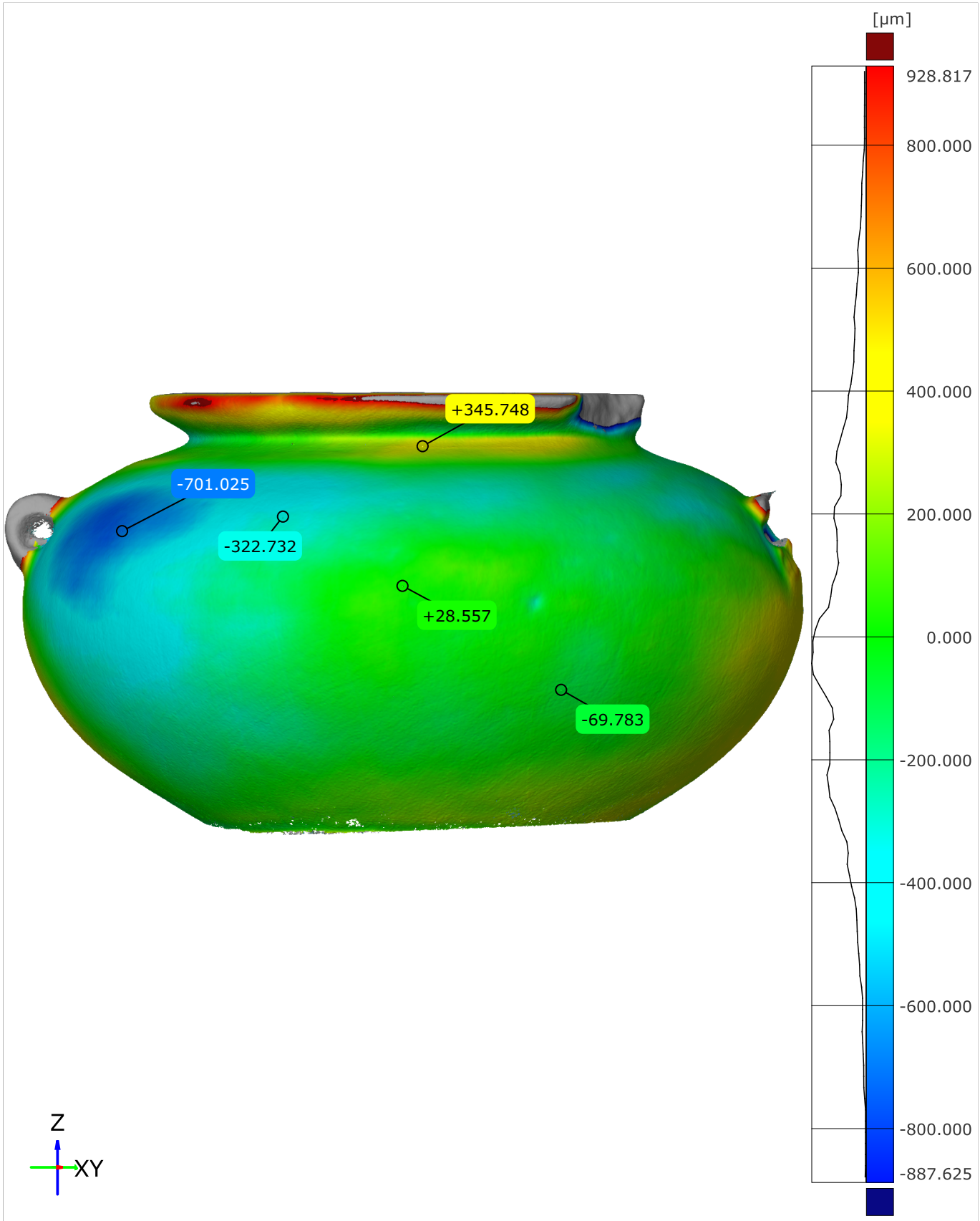
Surface Deviation Heatmap - Side 1



Original alignment — Length unit: µm

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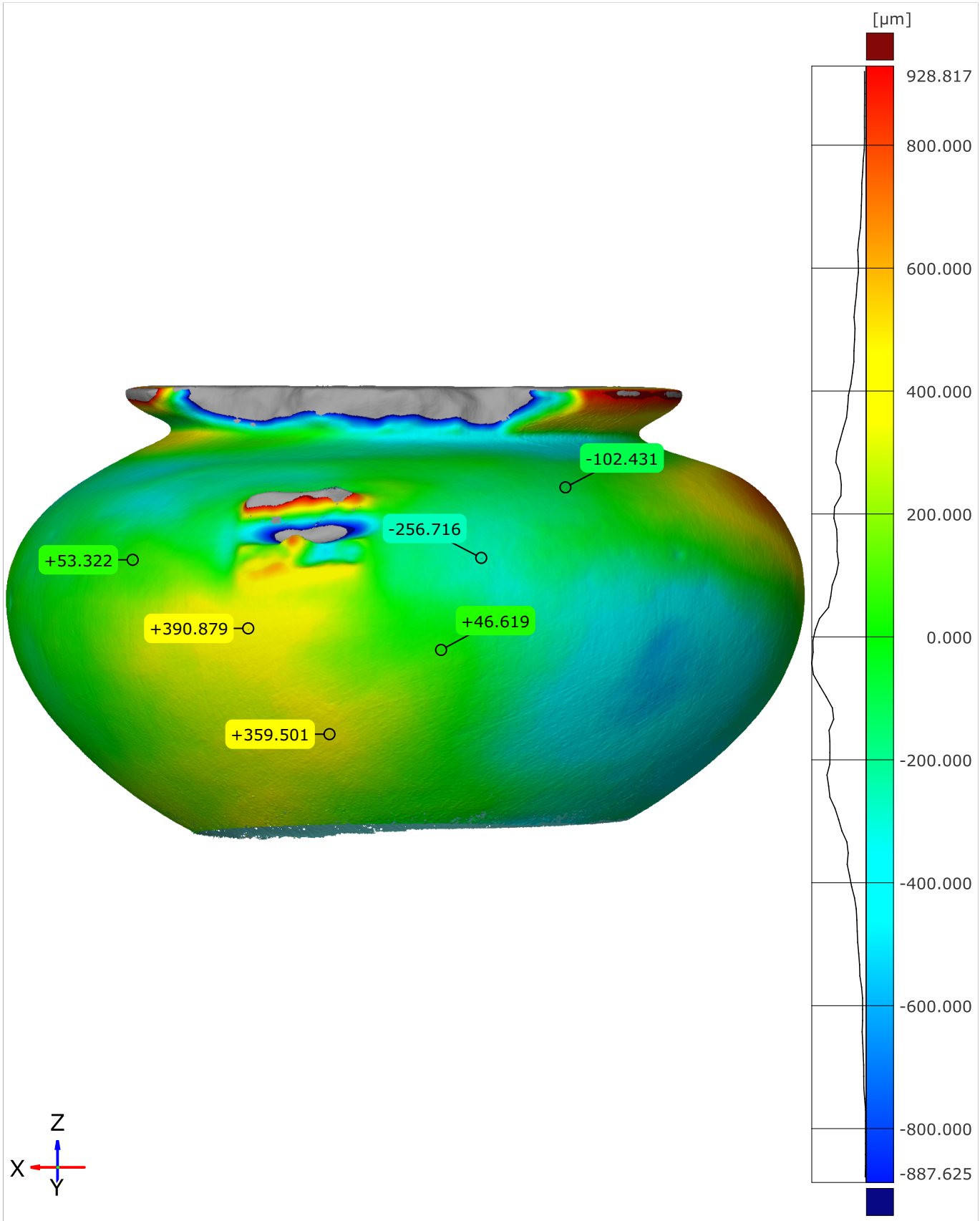
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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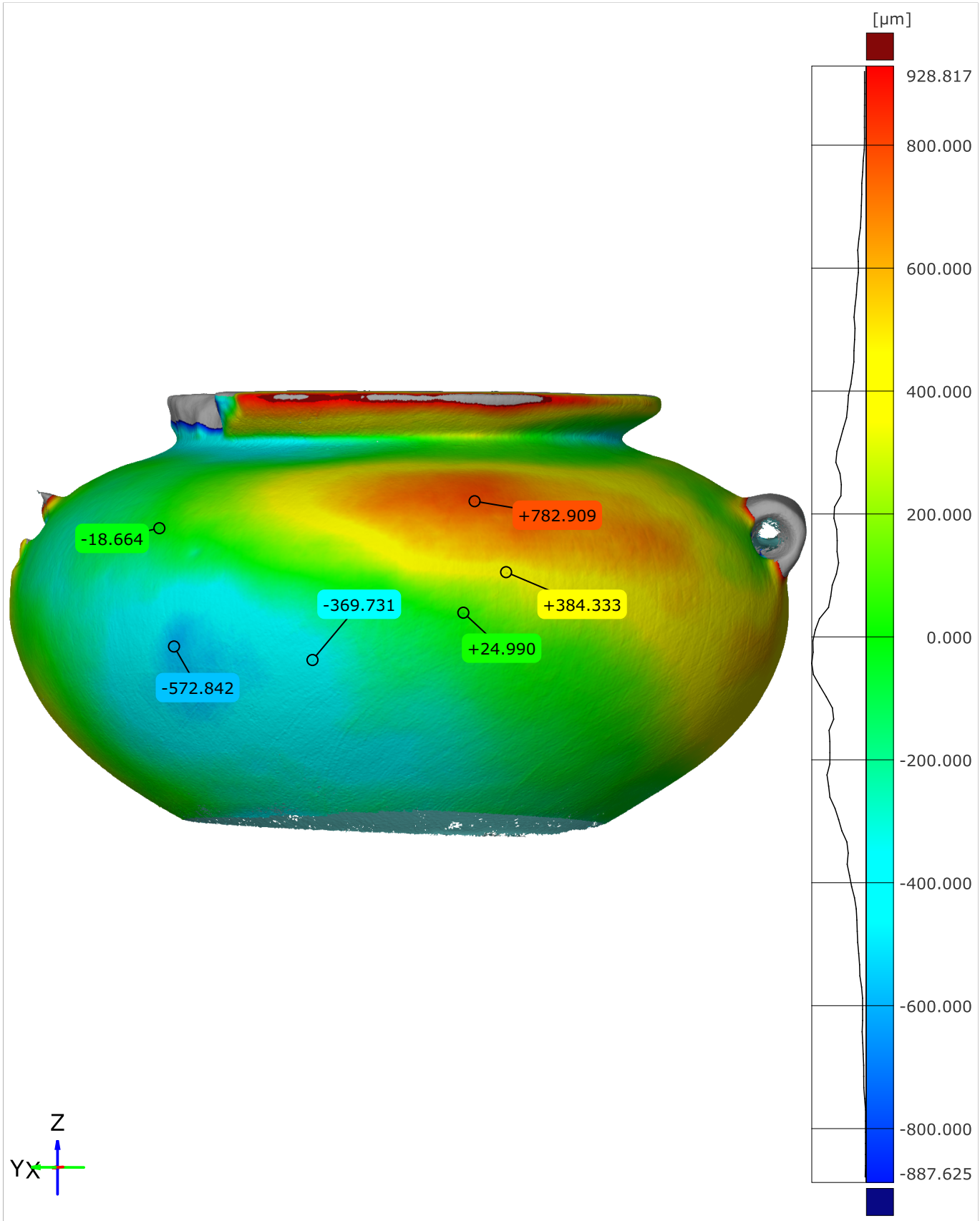
Surface Deviation Heatmap - Side 3



Original alignment — Length unit: µm

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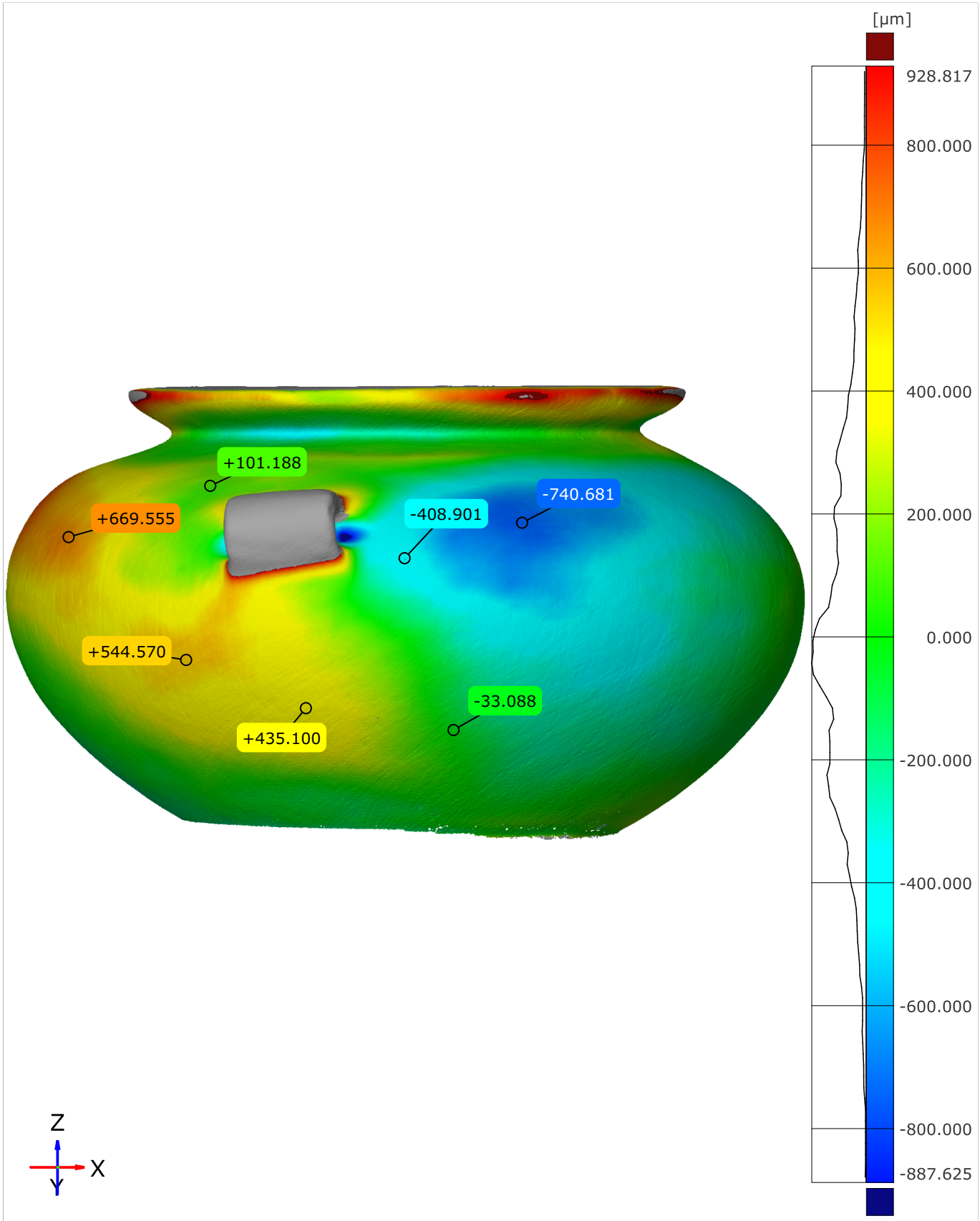
Surface Deviation Heatmap - Side 4



Original alignment Length unit: µm

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Surface Deviation ECDF

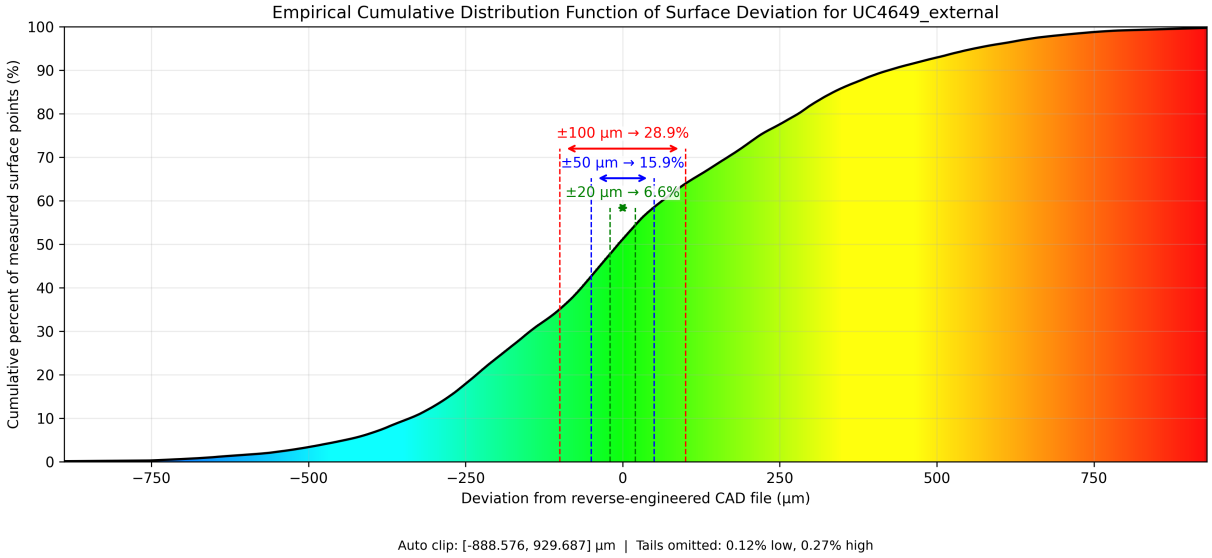

Figure 1.70: Surface Deviation ECDF (External)

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1.14.3 Internal

Circularity

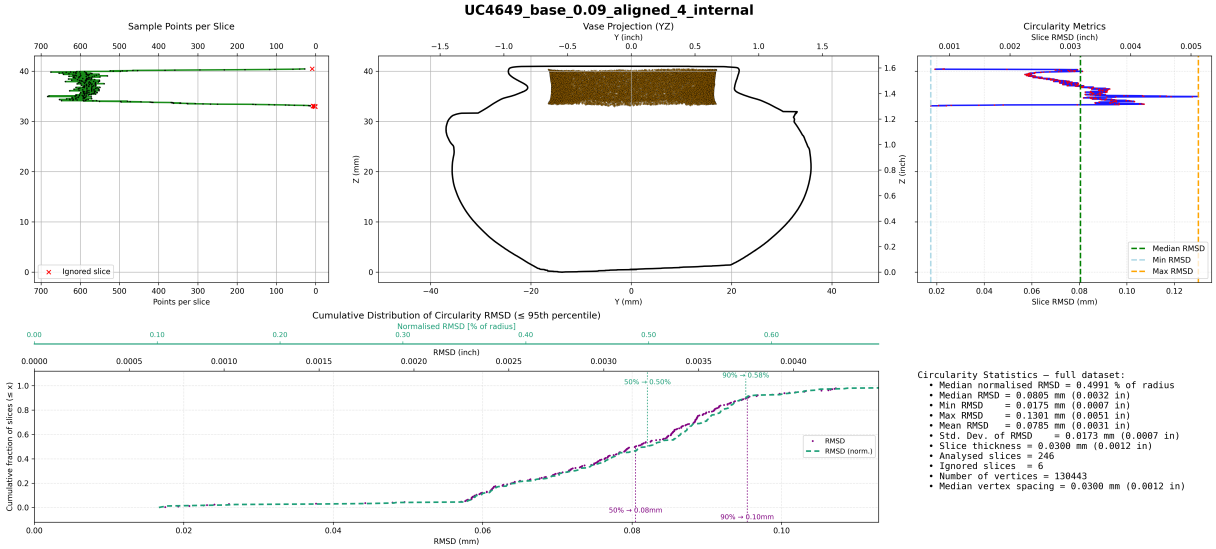

Figure 1.71: Circularity (Internal)

Concentricity

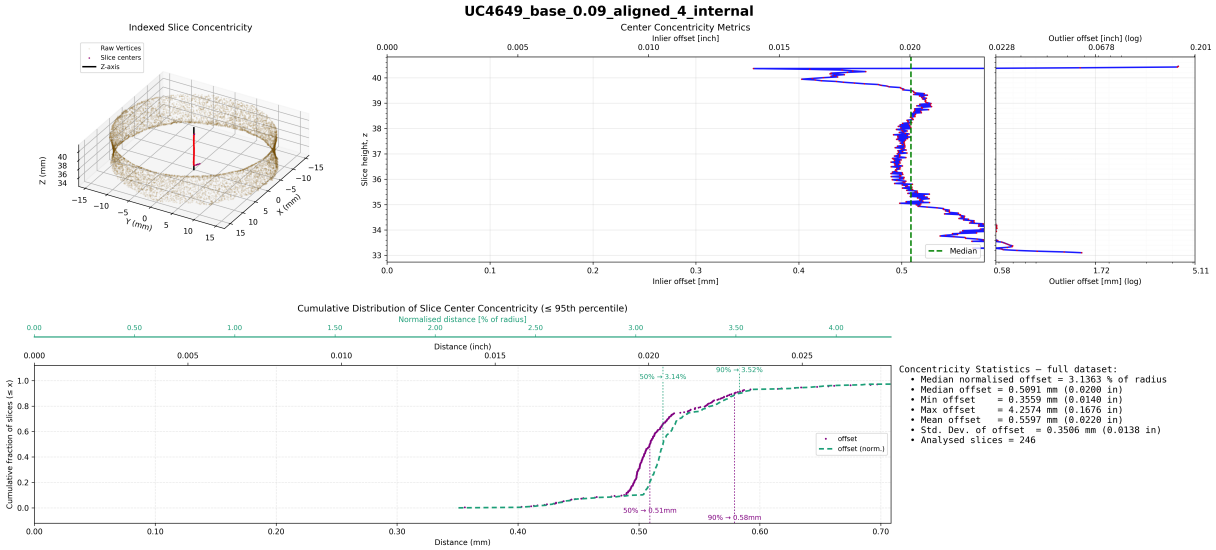

Figure 1.72: Concentricity (Internal)

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1.15 UC4978

1.15.1 Artifact Information



Accession Number	LDUCE-UC4978
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Stone vase, type 99, porphyry, rim damaged. From Naqada Cemetery B Tomb 99.
Publications	
Production Period	Naqada Period
Material	porphyry
Dimensions	height: 13.5 cms; diameter: 10.2 cms; Diameter across hand diameter: 11.0 cms
Notes	Object Category: vases; \\ Collector: William Matthew Flinders Petrie

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1.15.2 External

Circularity

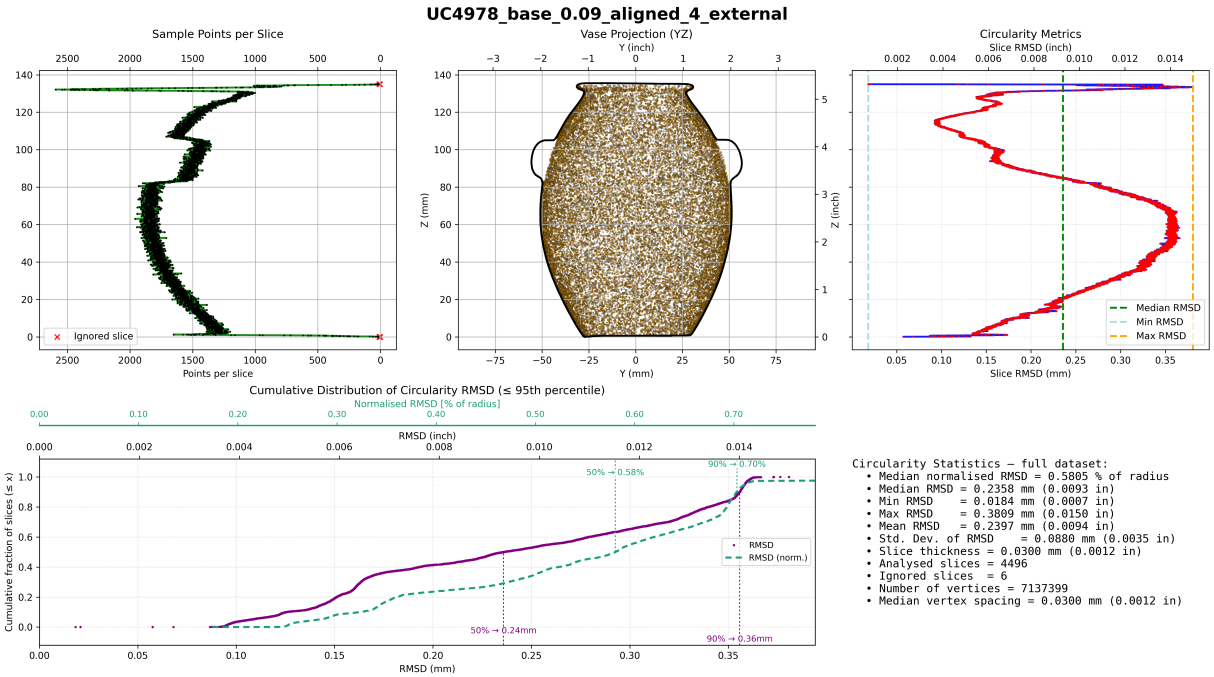

Figure 1.73: Circularity (External)

Concentricity

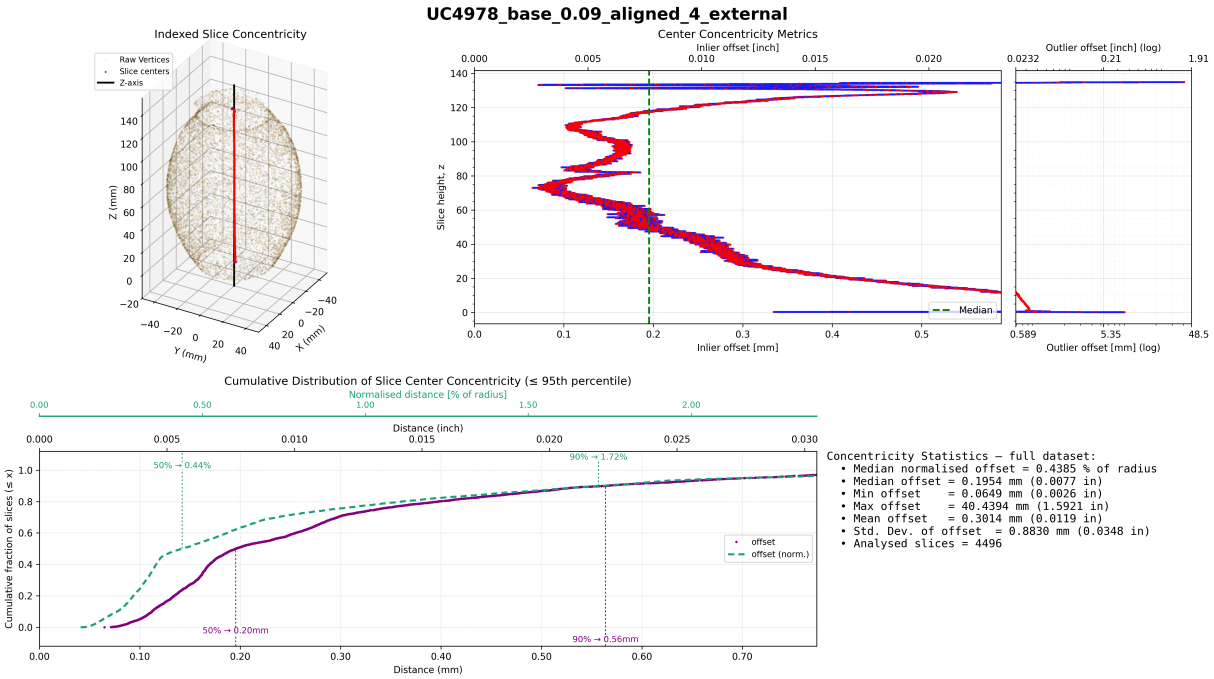

Figure 1.74: Concentricity (External)

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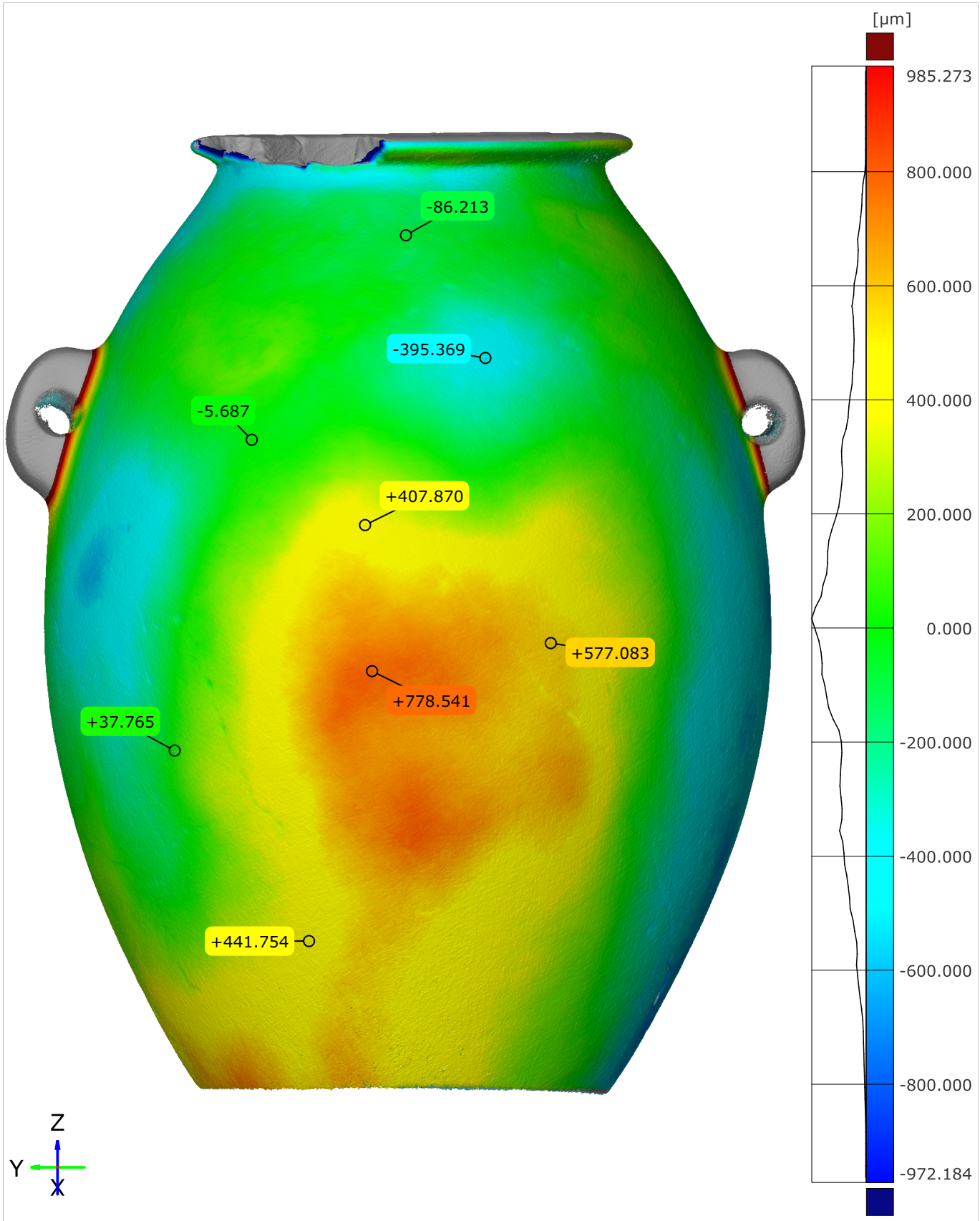
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

Petrie Museum of Egyptian Archaeology UC4978

1/4

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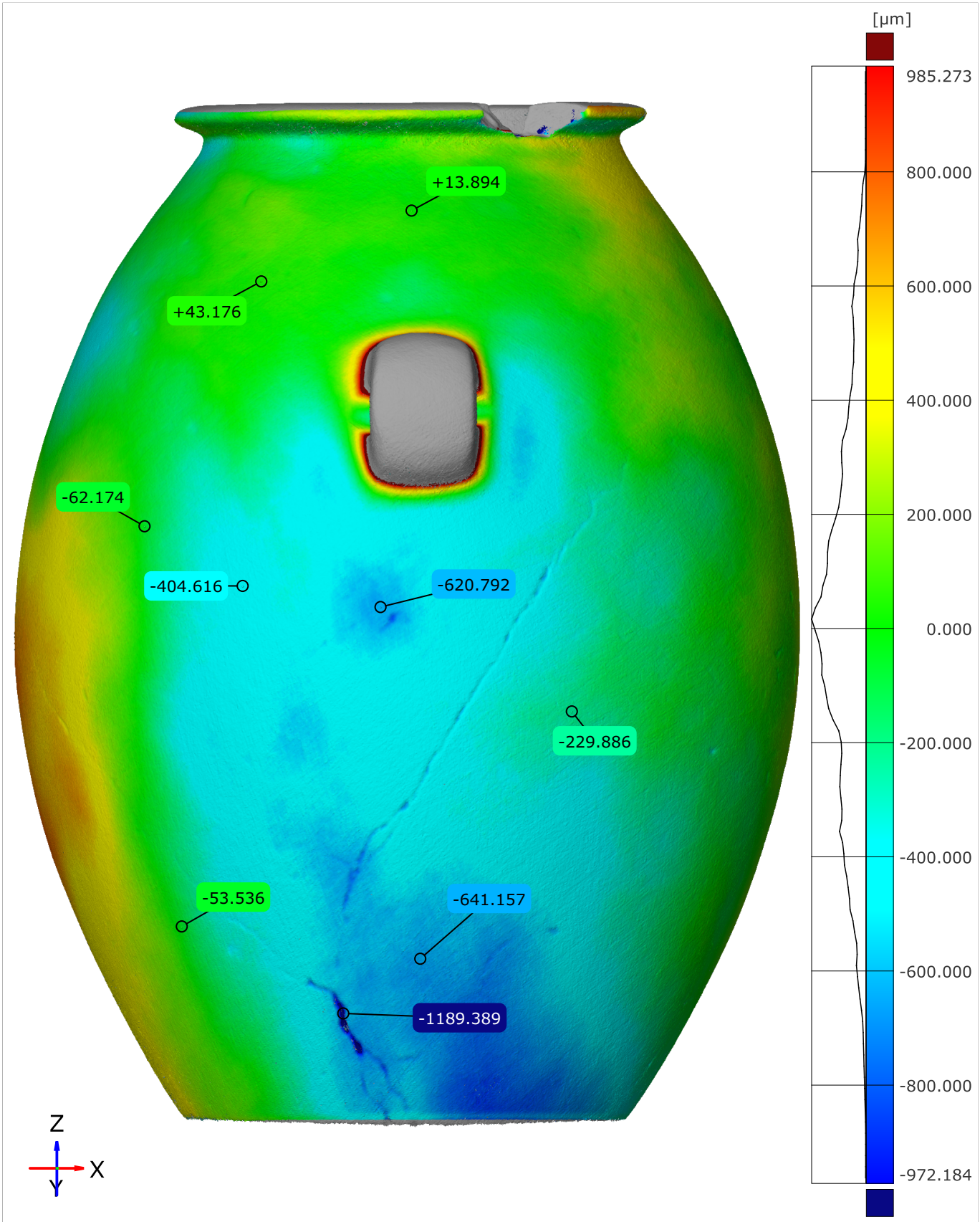
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

Petrie Museum of Egyptian Archaeology UC4978 2/4

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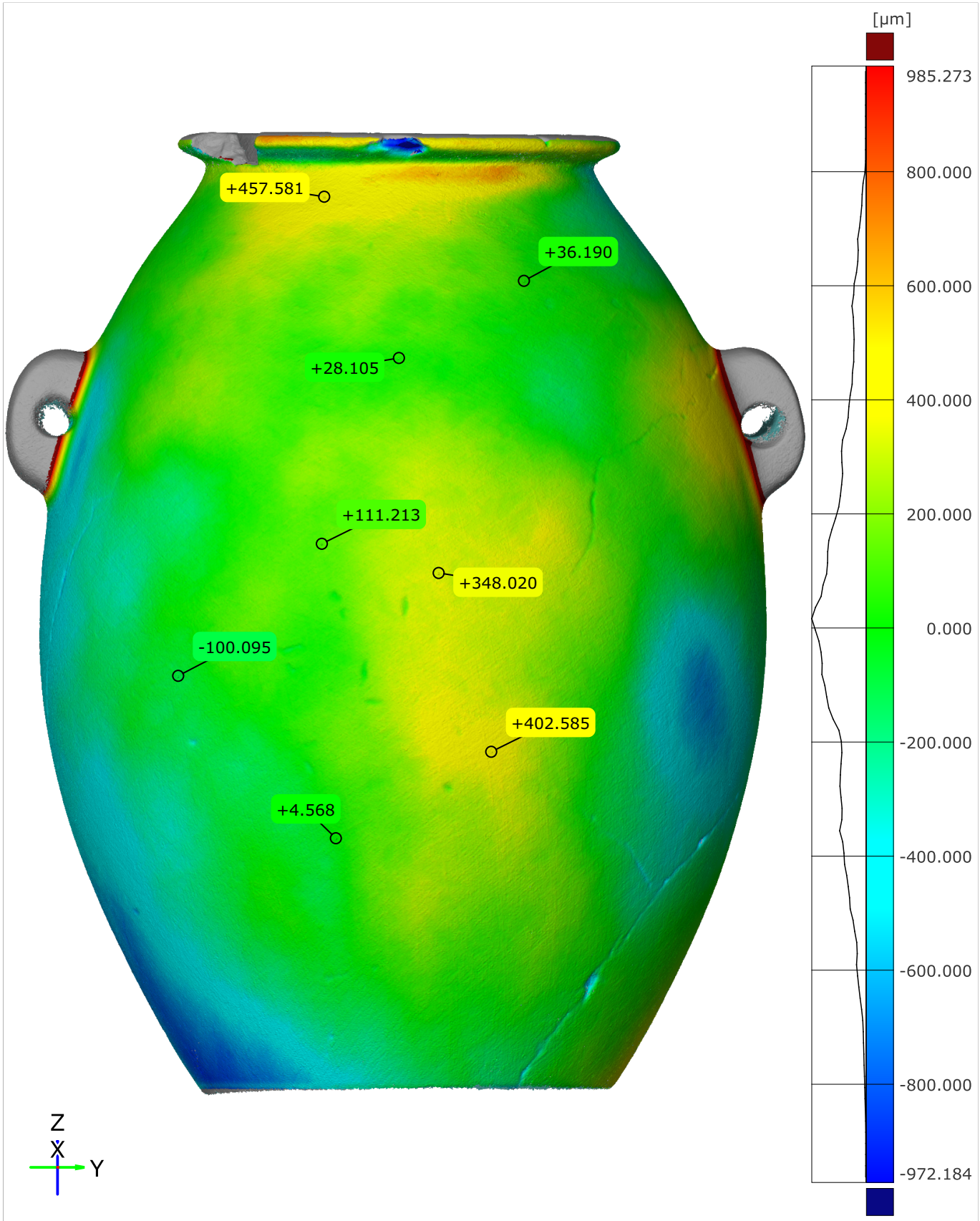
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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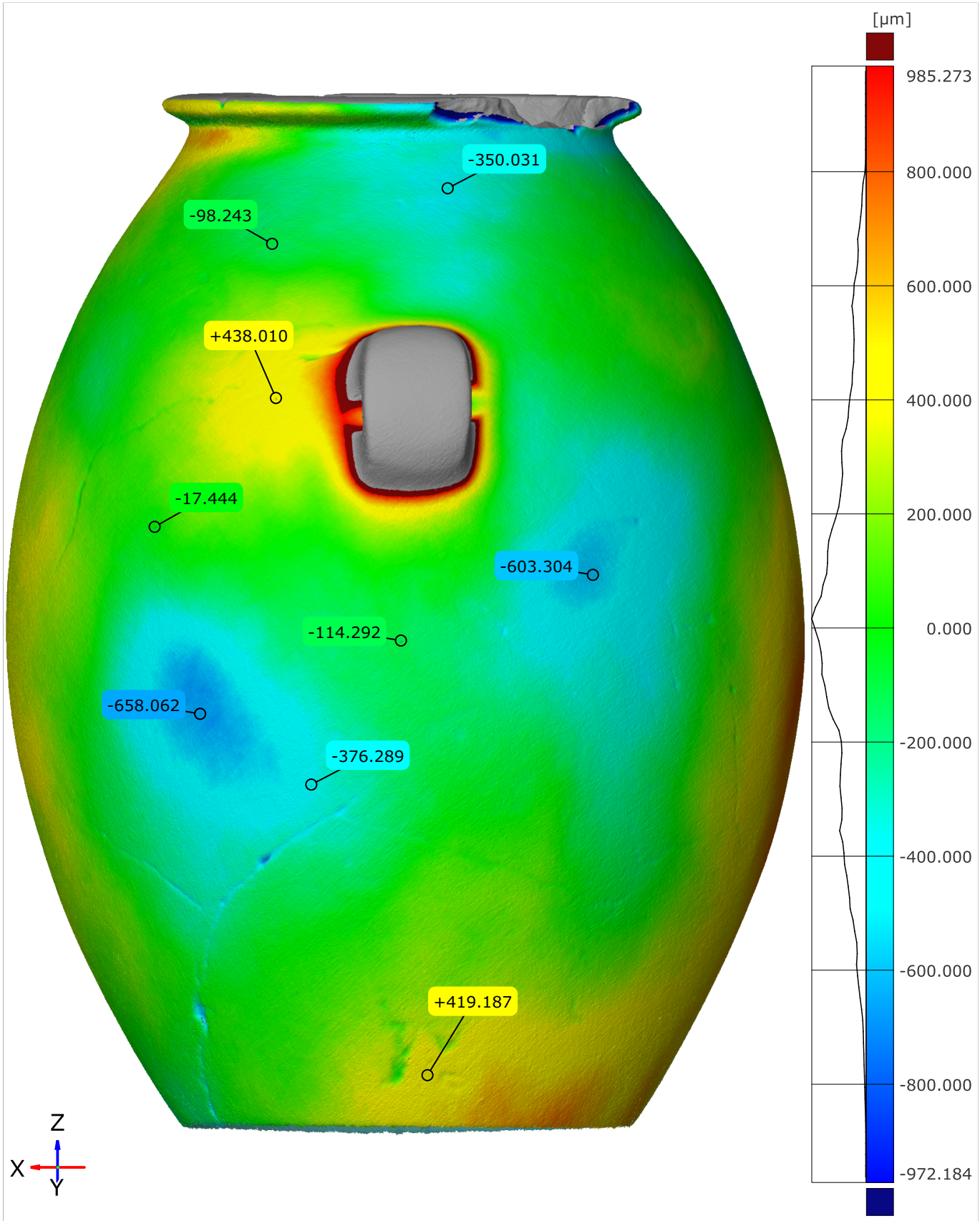
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

Petrie Museum of Egyptian Archaeology UC4978 4/4

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Surface Deviation ECDF

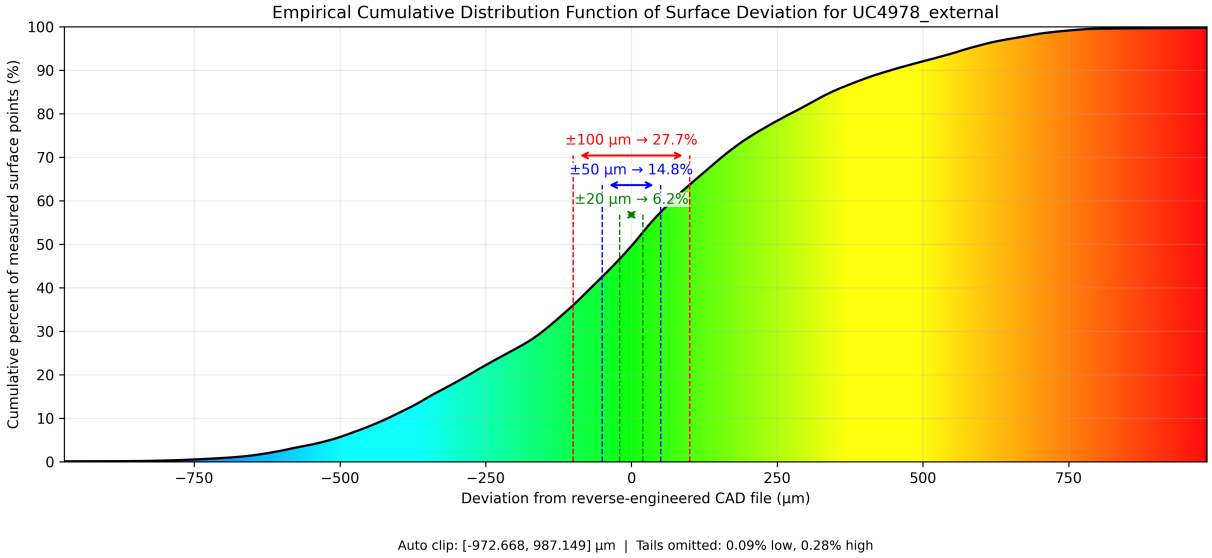

Figure 1.75: Surface Deviation ECDF (External)

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1.15.3 Internal

Circularity

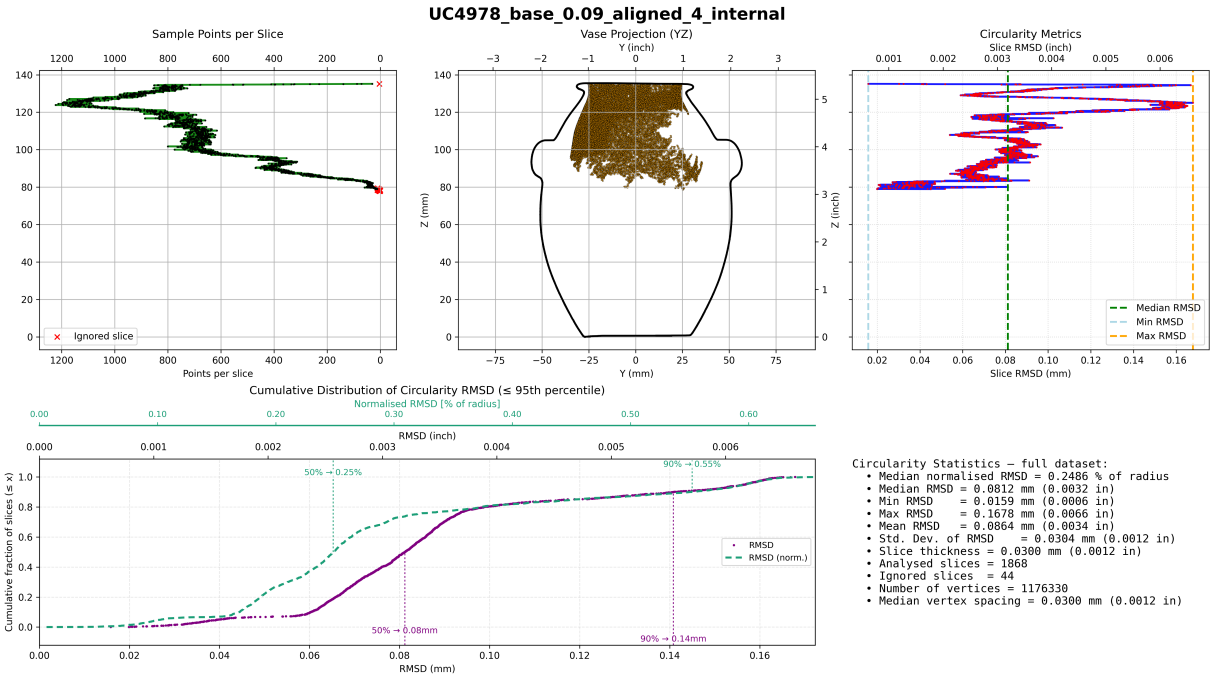

Figure 1.76: Circularity (Internal)

Concentricity

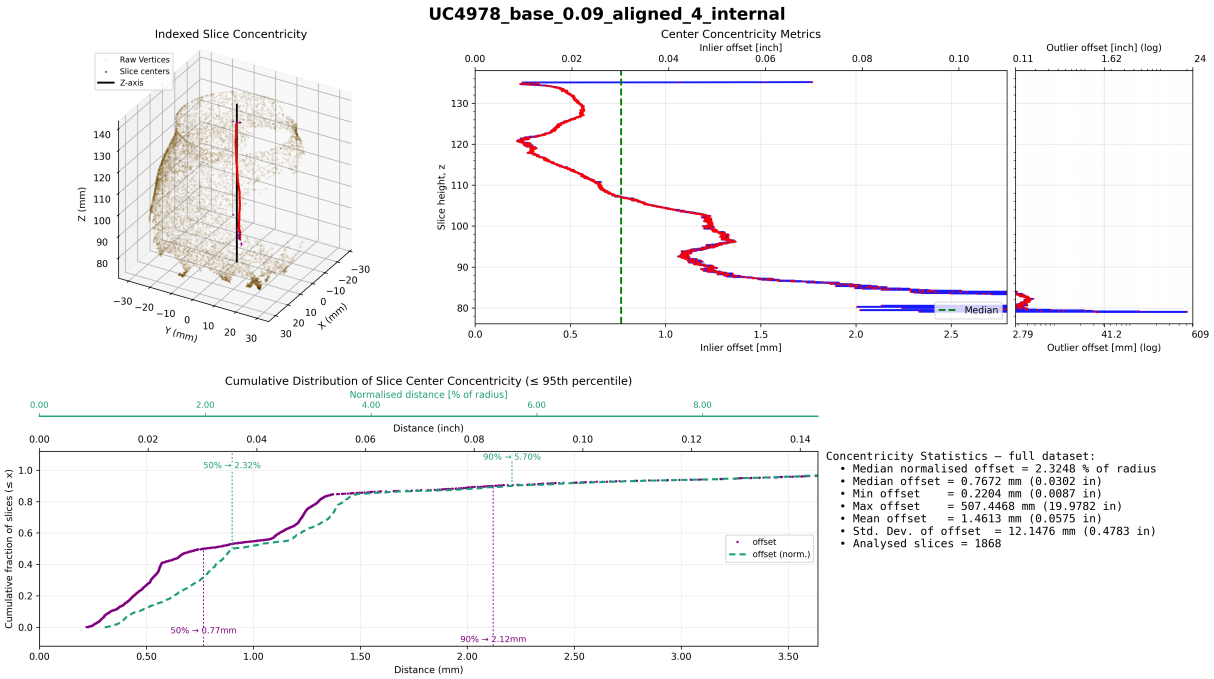

Figure 1.77: Concentricity (Internal)

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1.16 UC5408A

1.16.1 Artifact Information



Accession Number	LDUCE-UC5408A
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Stone vase, basalt, type B 37. From Naqada Tomb 100.
Publications	
Production Period	Naqada II
Material	basalt
Dimensions	height: 2.7 ins; diameter: 2.3 ins; height: 6.7 cms; diameter: 6.0 cms
Notes	Object Category: vases; \\ Collector: William Matthew Flinders Petrie

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1.16.2 External

Circularity

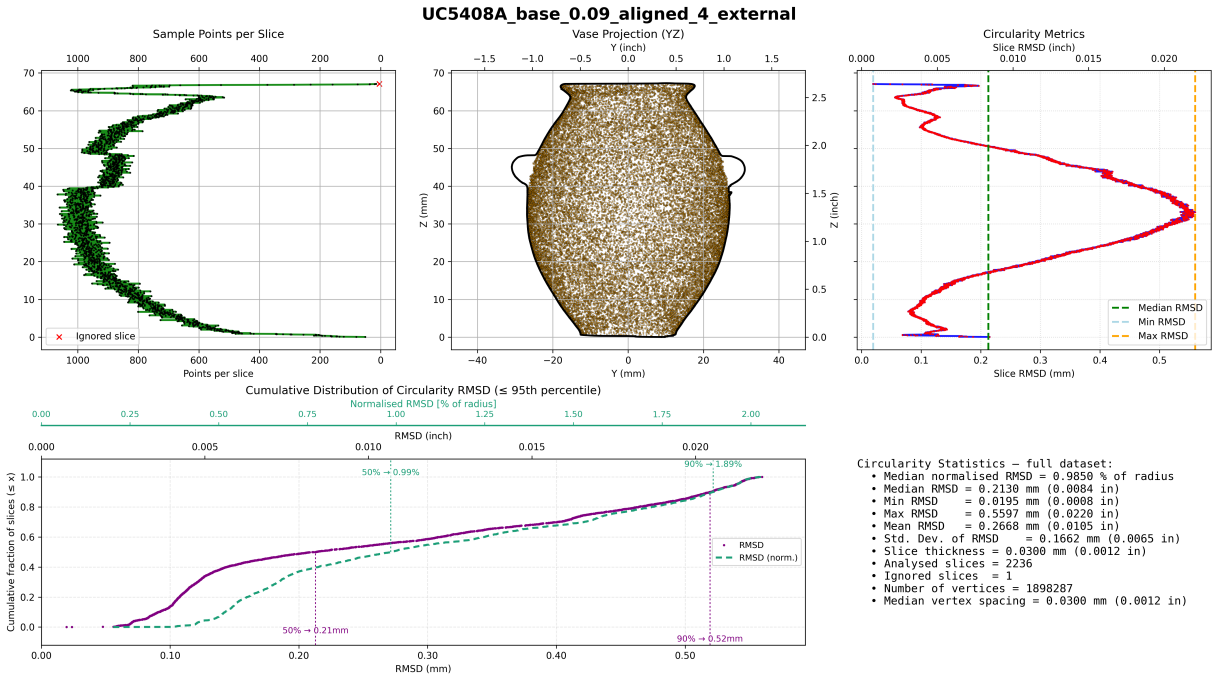

Figure 1.78: Circularity (External)

Concentricity

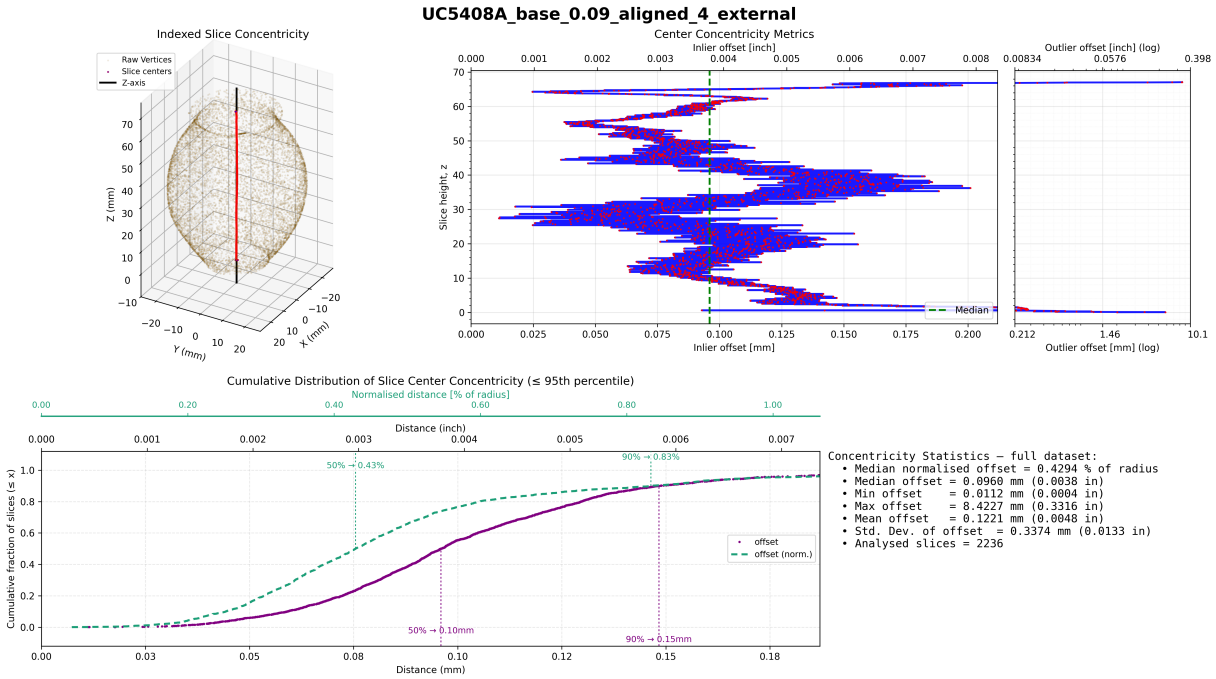

Figure 1.79: Concentricity (External)

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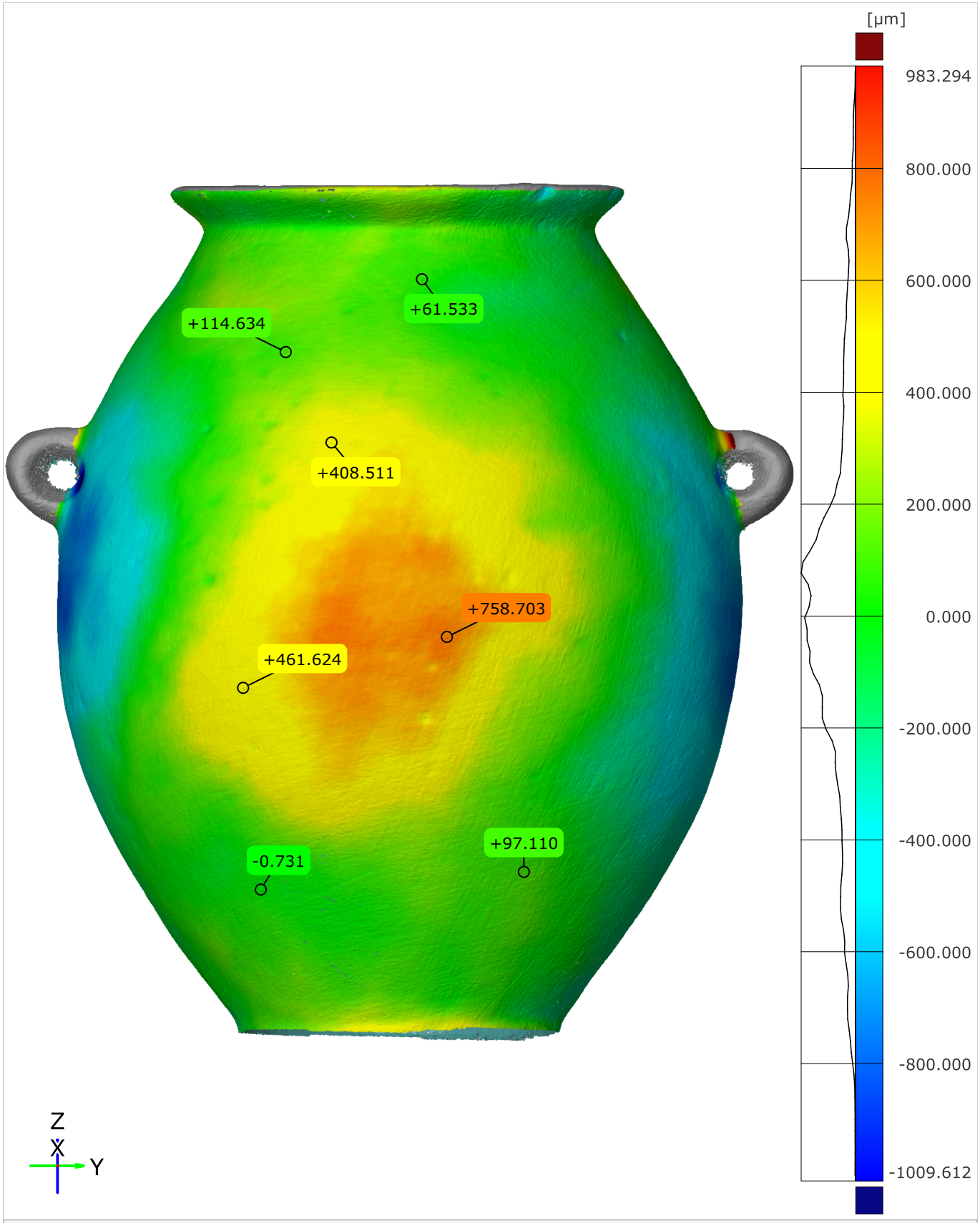
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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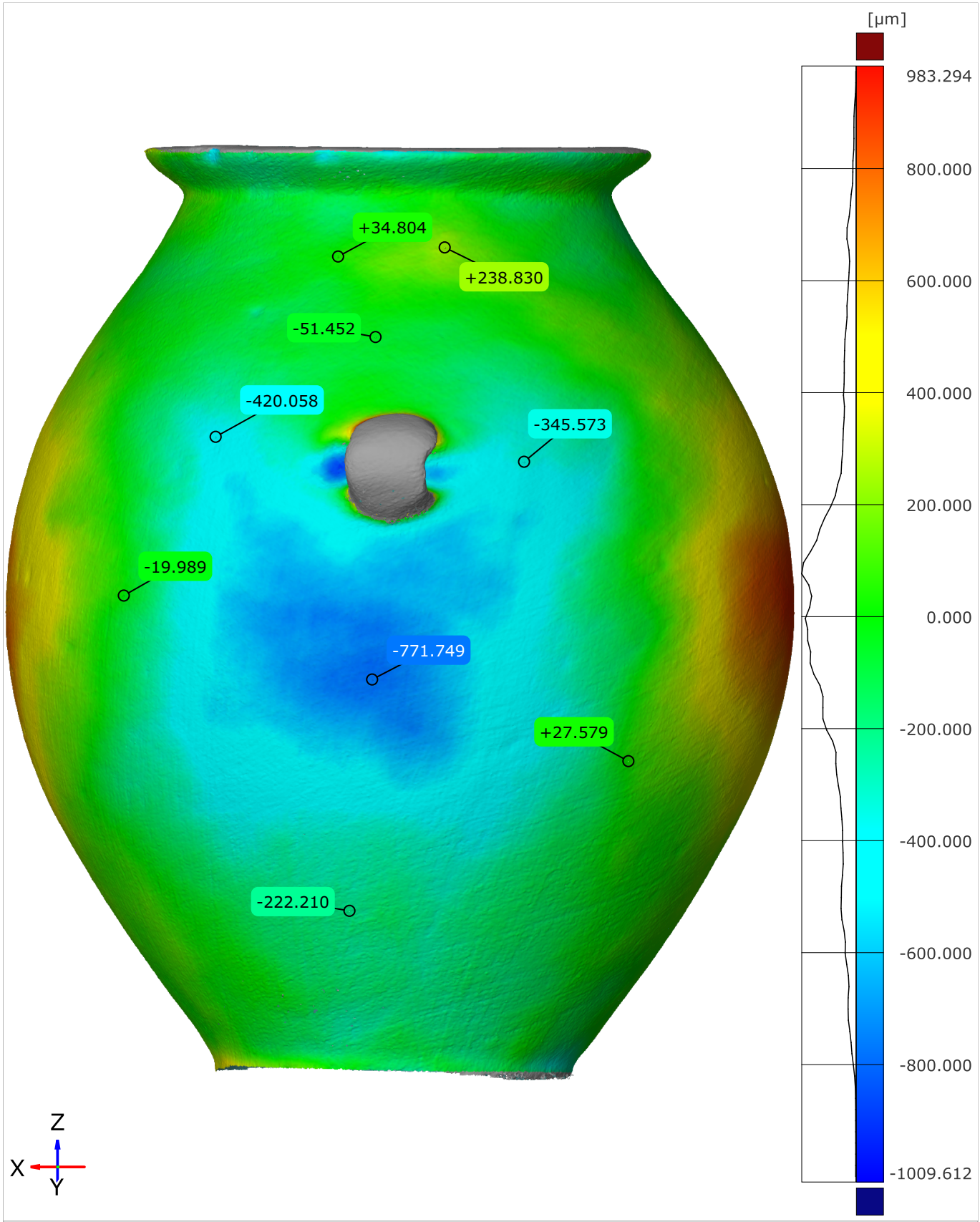
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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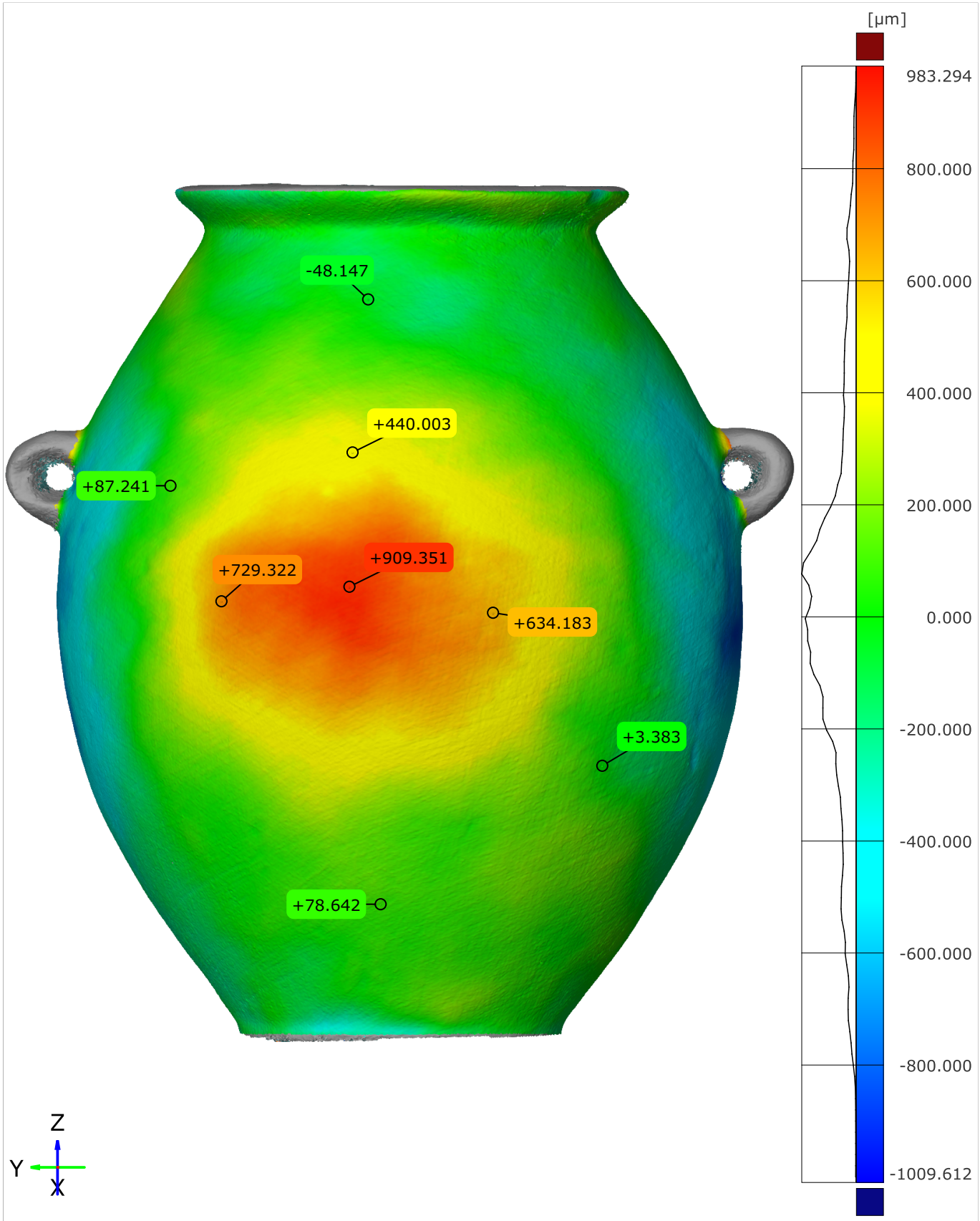
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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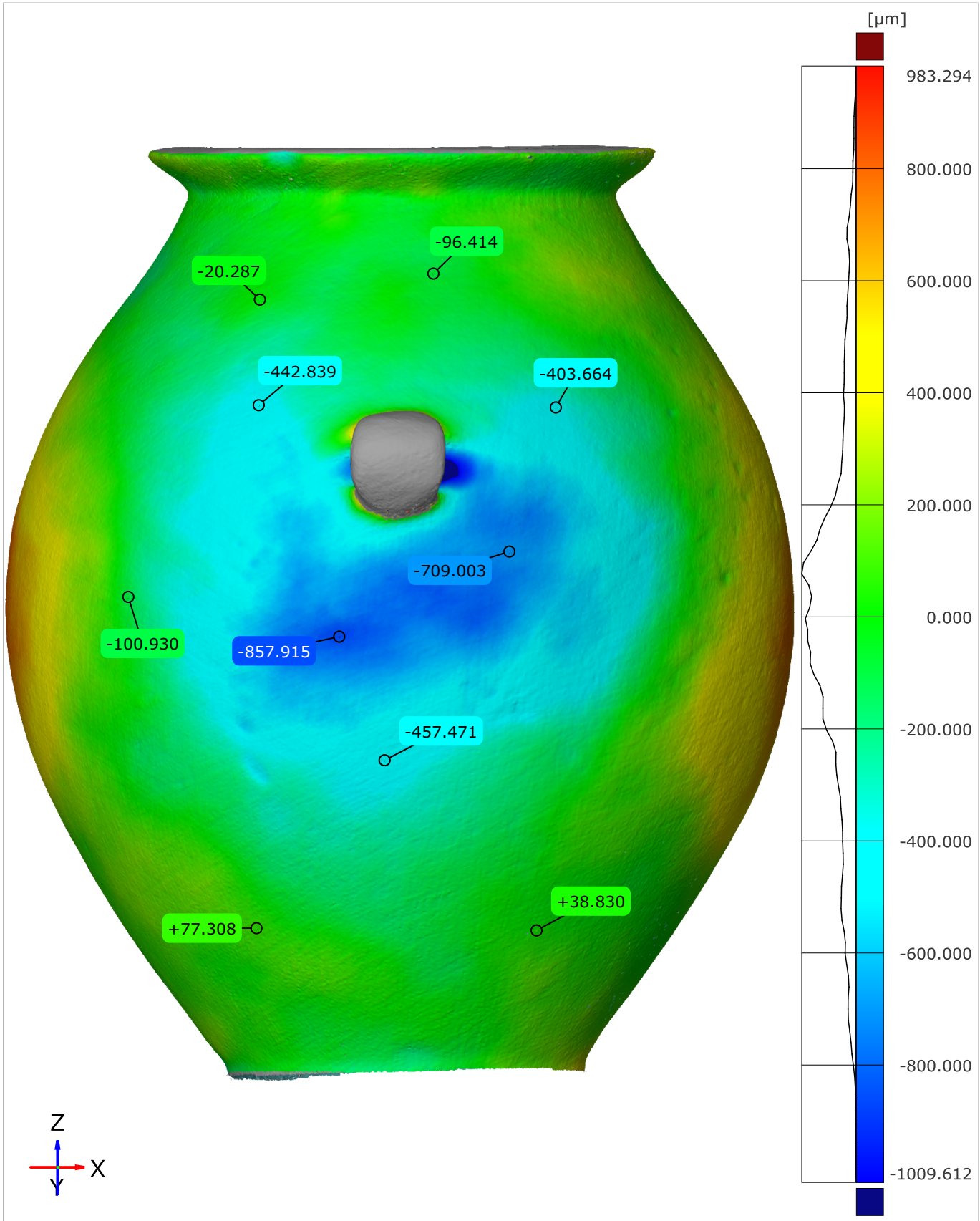
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

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Surface Deviation ECDF

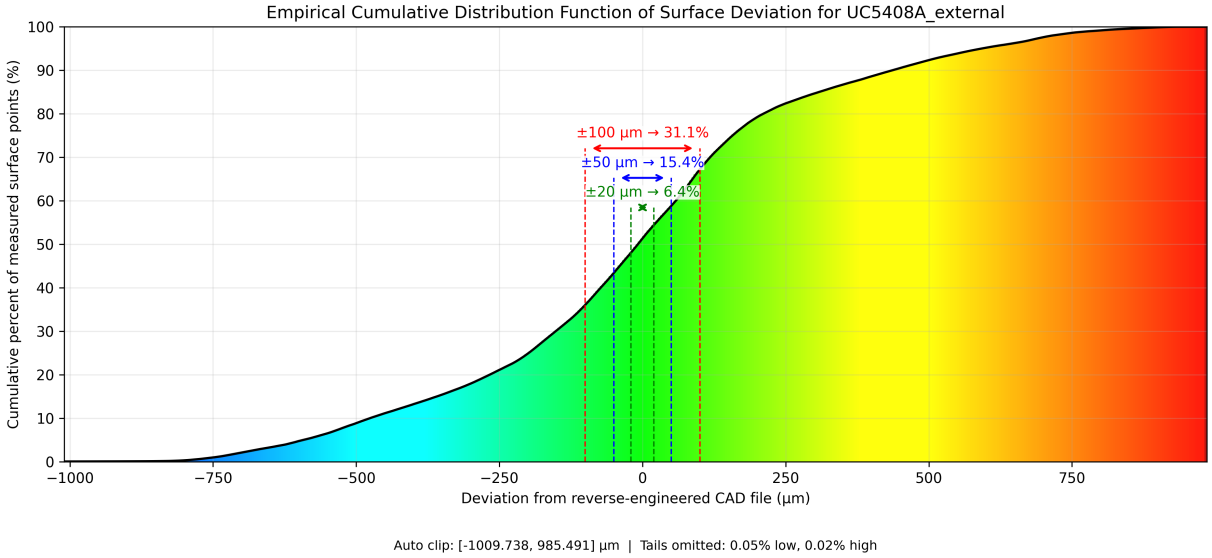

Figure 1.80: Surface Deviation ECDF (External)

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1.16.3 Internal

Circularity

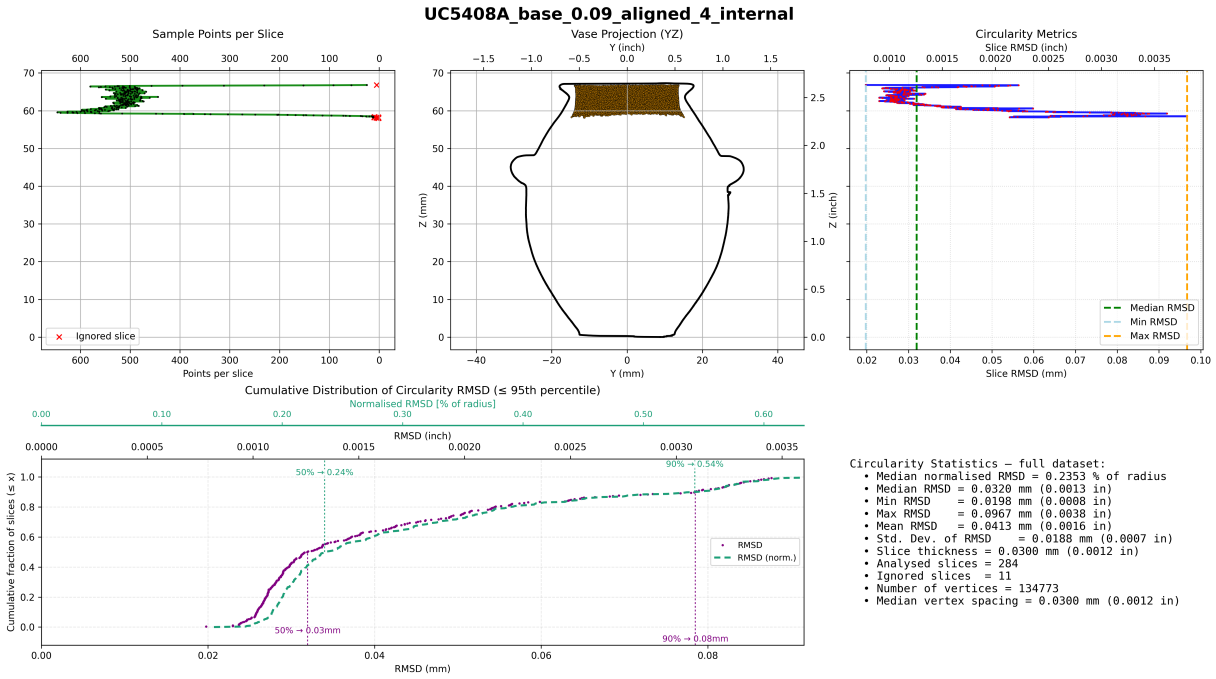

Figure 1.81: Circularity (Internal)

Concentricity

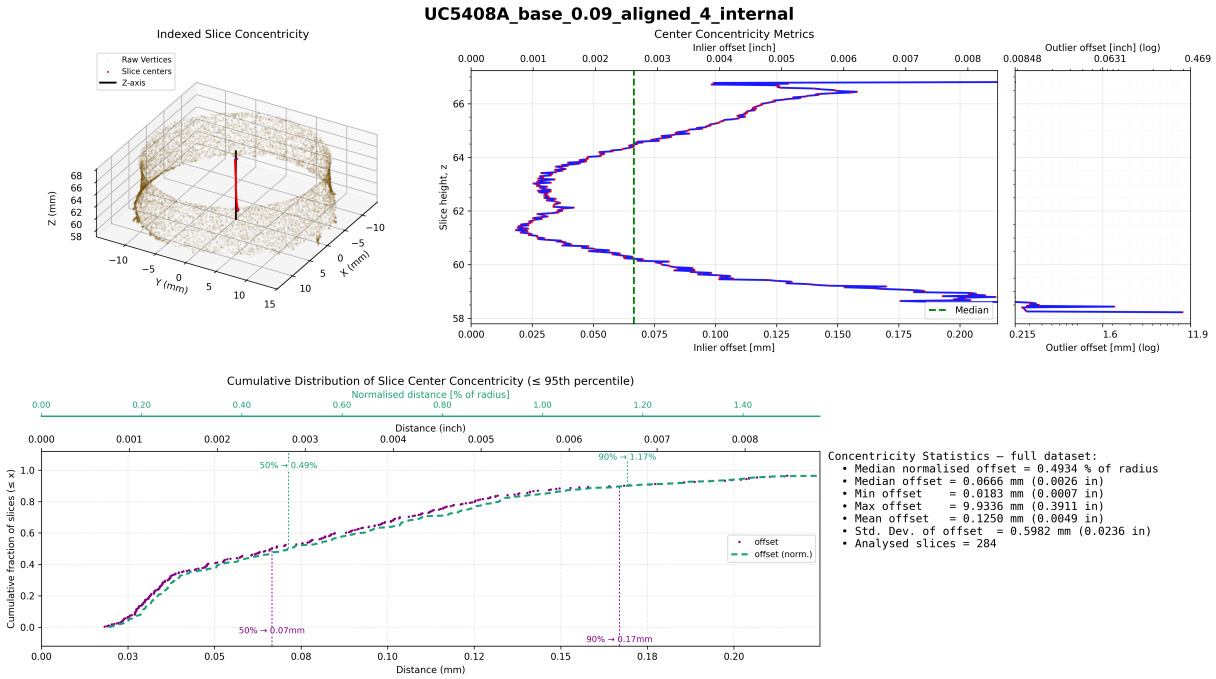

Figure 1.82: Concentricity (Internal)

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1.17 UC6226

1.17.1 Artifact Information



Accession Number	LDUCE-UC6226
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Grey basalt vase with two perforated handles. From Naqada Tomb 1207.
Publications	
Production Period	(possible) Naqada II
Material	basalt
Dimensions	
Notes	Object Category: vases; \\ Collector: William Matthew Flinders Petrie

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1.17.2 External

Circularity

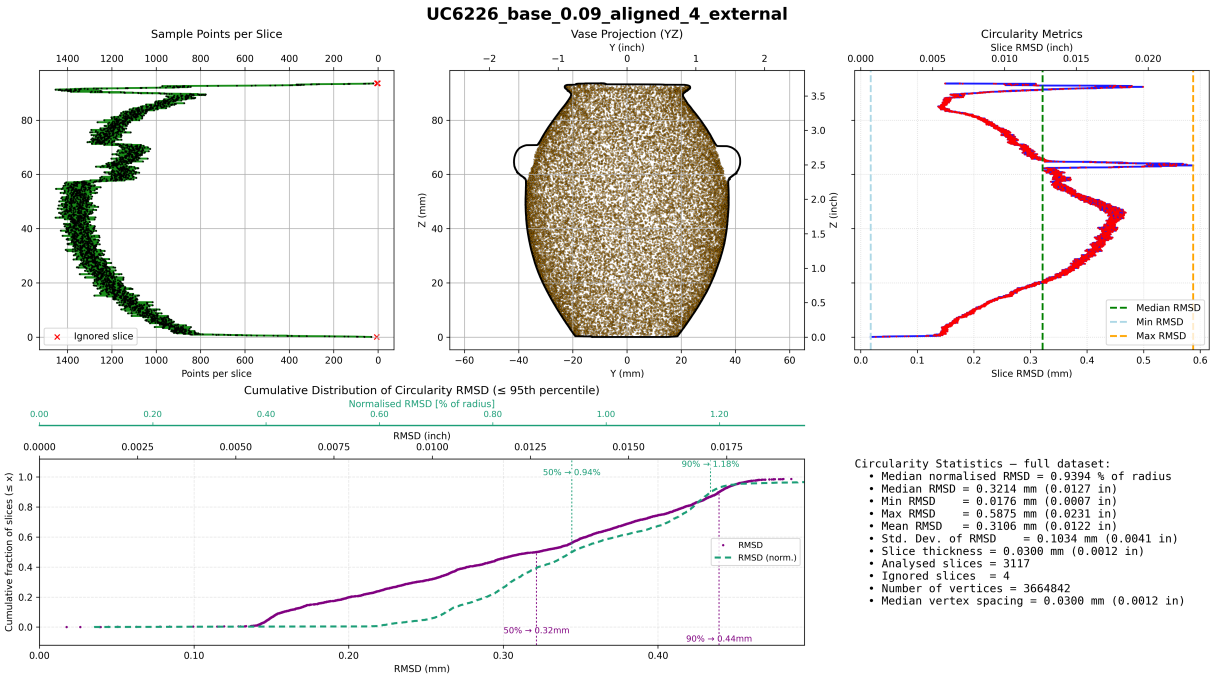

Figure 1.83: Circularity (External)

Concentricity

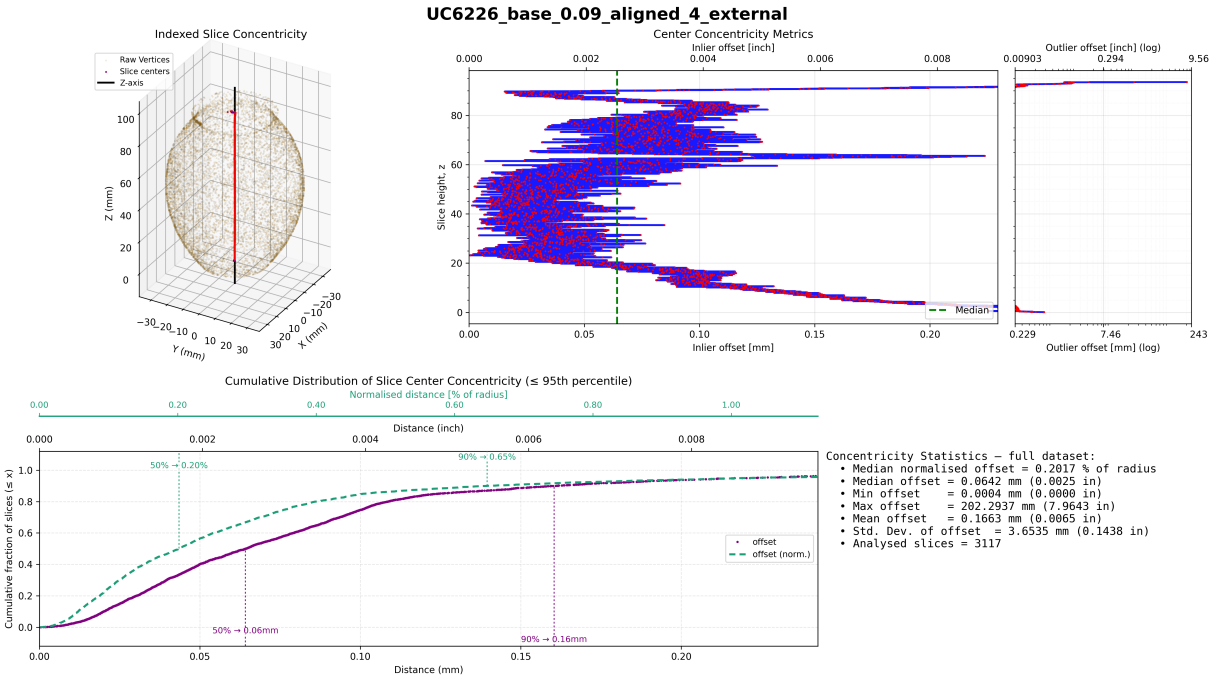

Figure 1.84: Concentricity (External)

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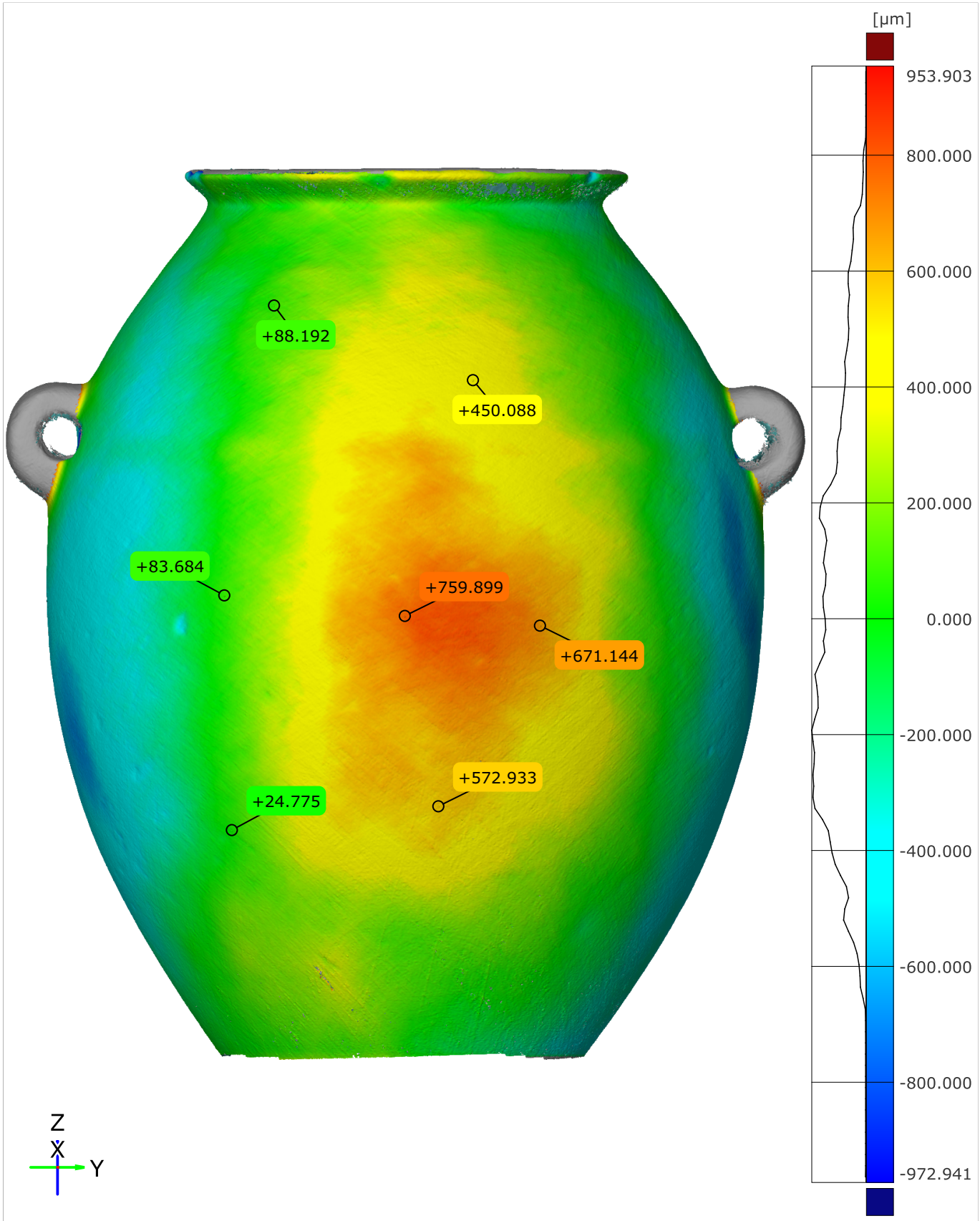
Surface Deviation Heatmap - Side 1



Original alignment Length unit: µm

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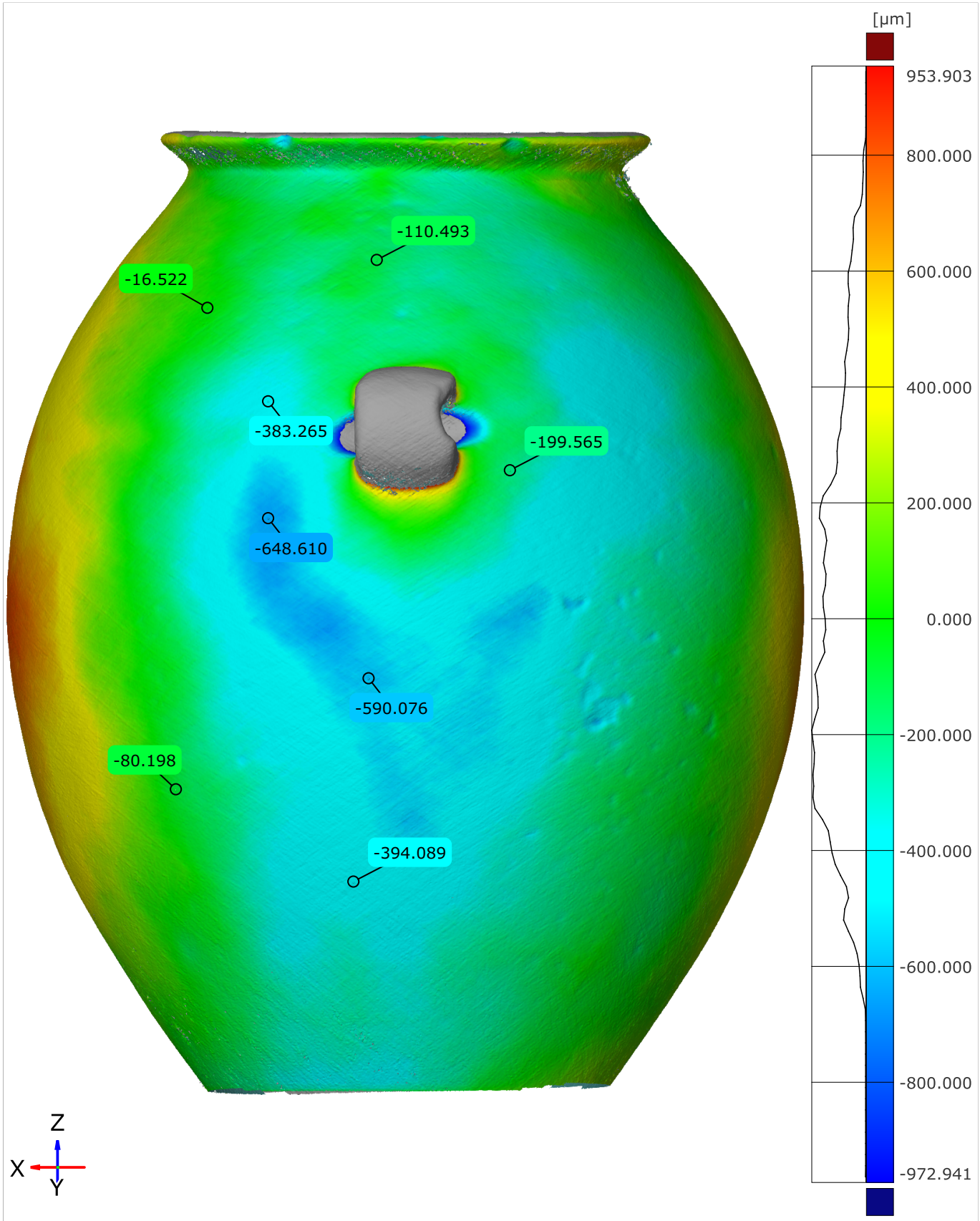
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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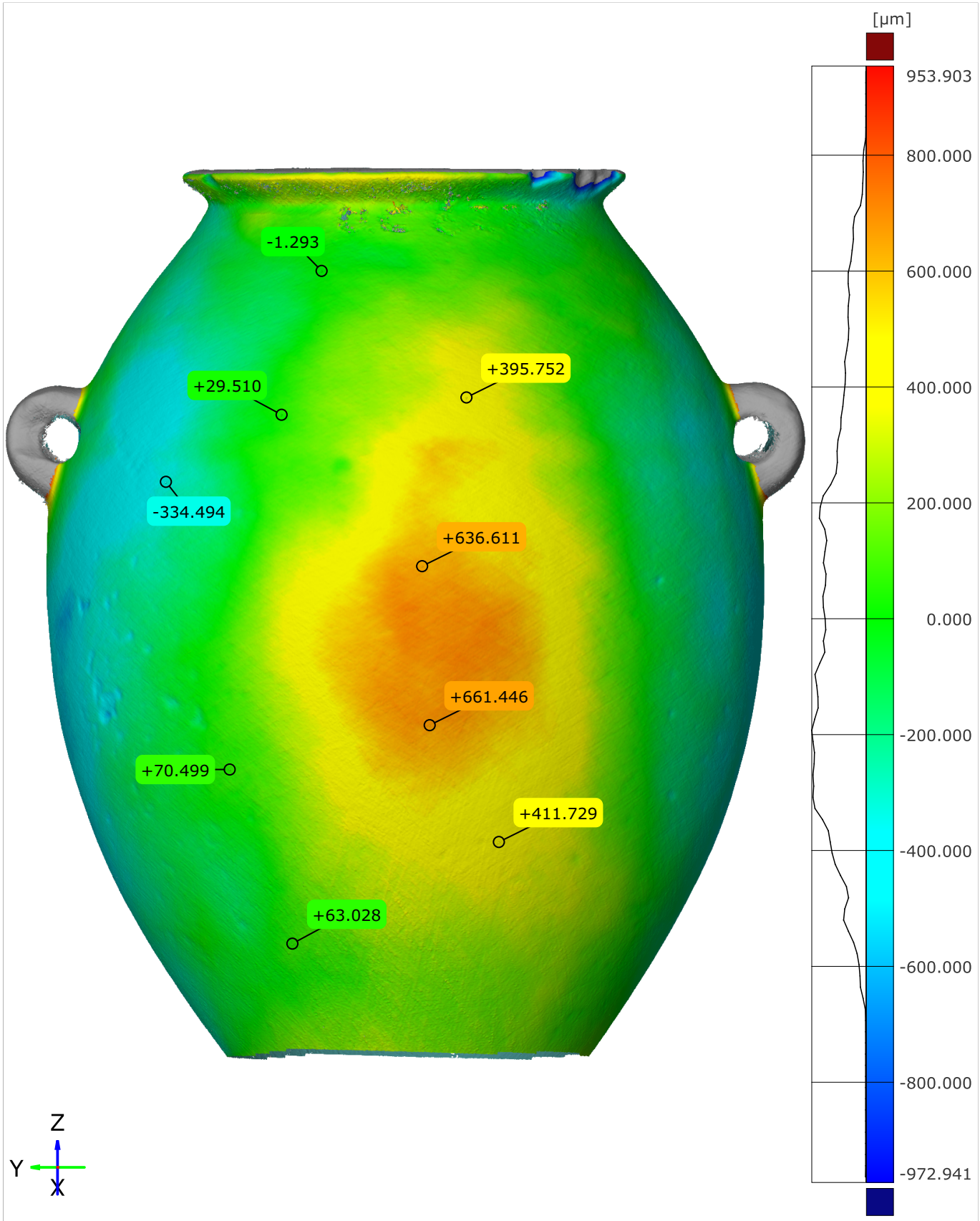
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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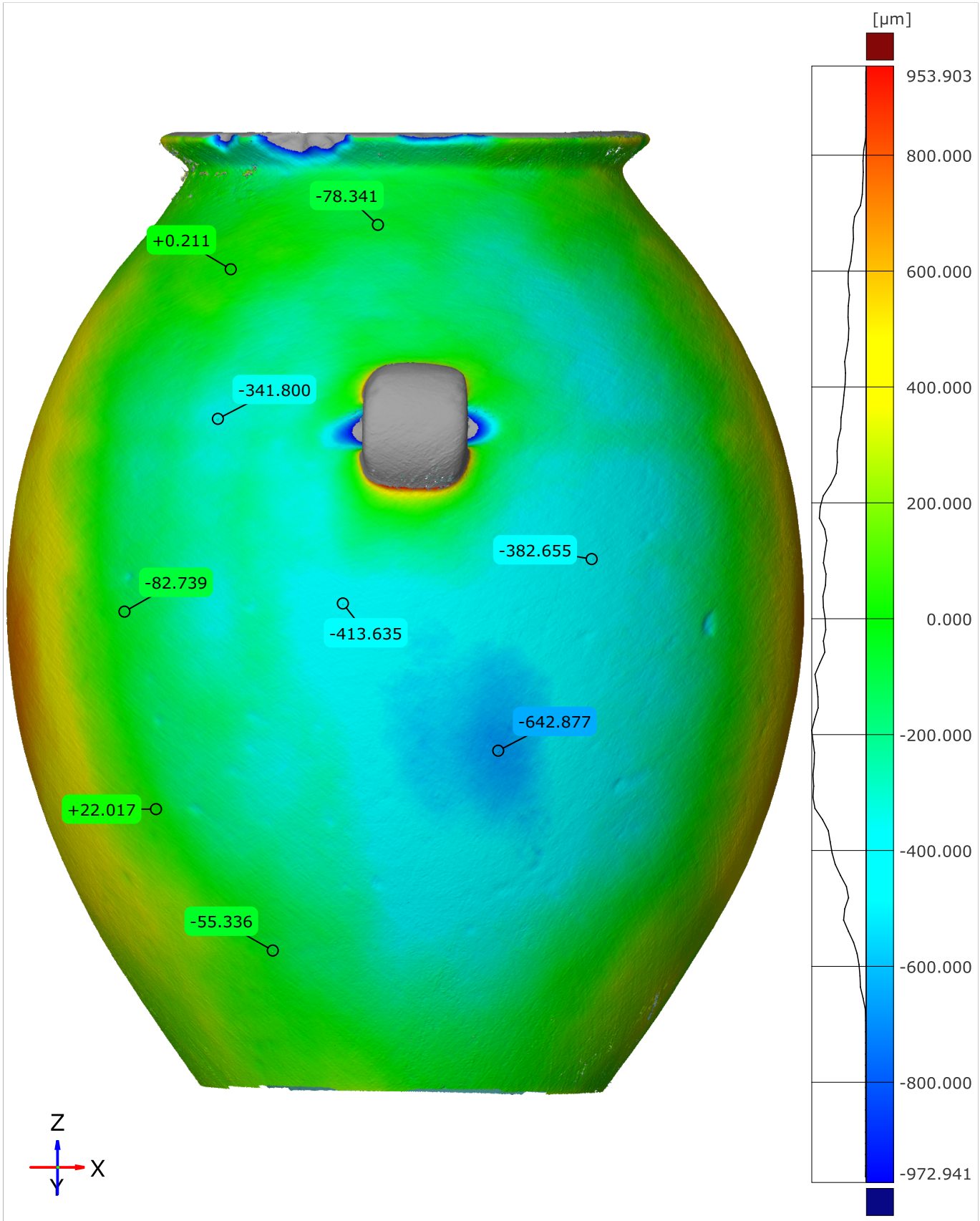
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

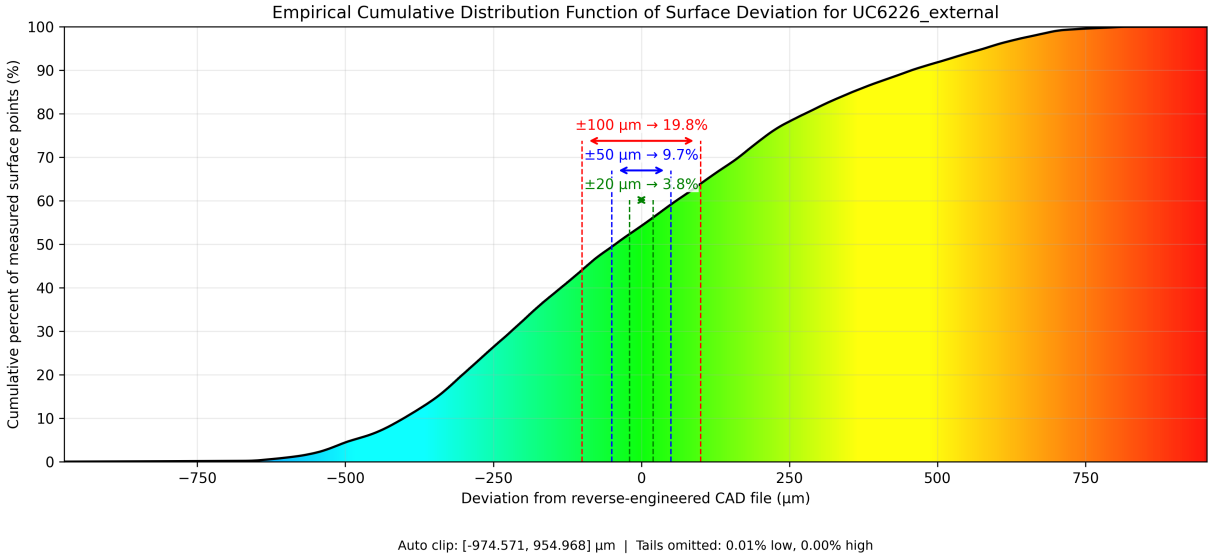

Figure 1.85: Surface Deviation ECDF (External)

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1.17.3 Internal

Circularity

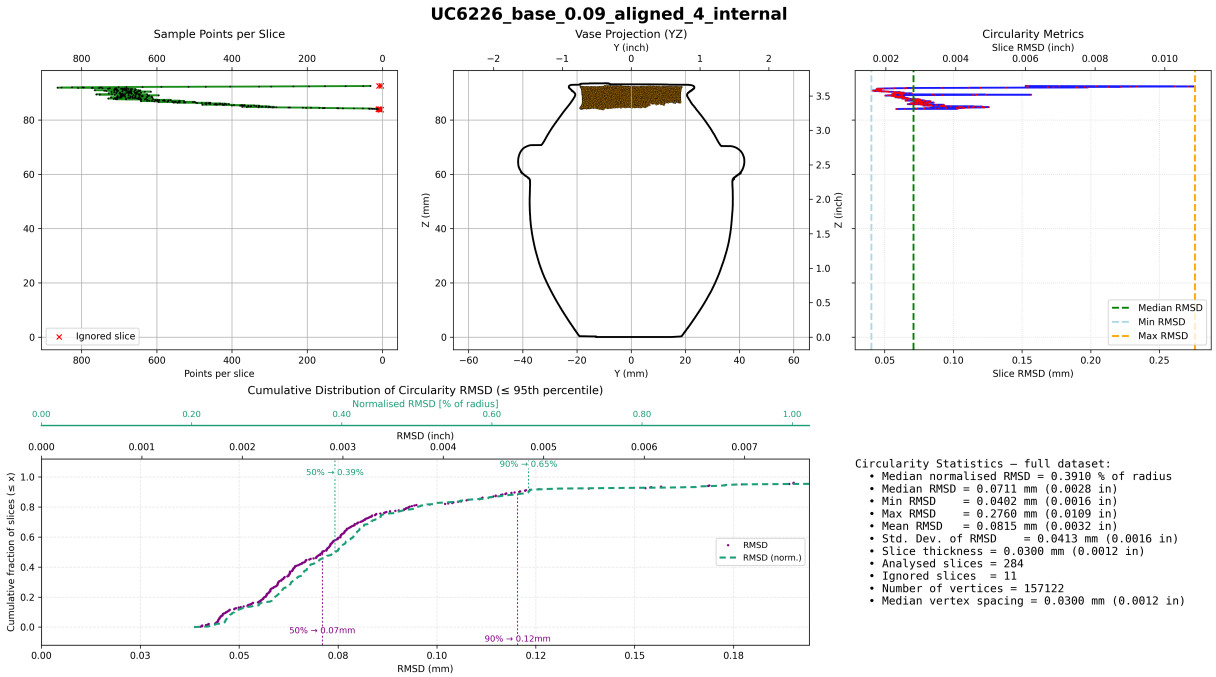

Figure 1.86: Circularity (Internal)

Concentricity

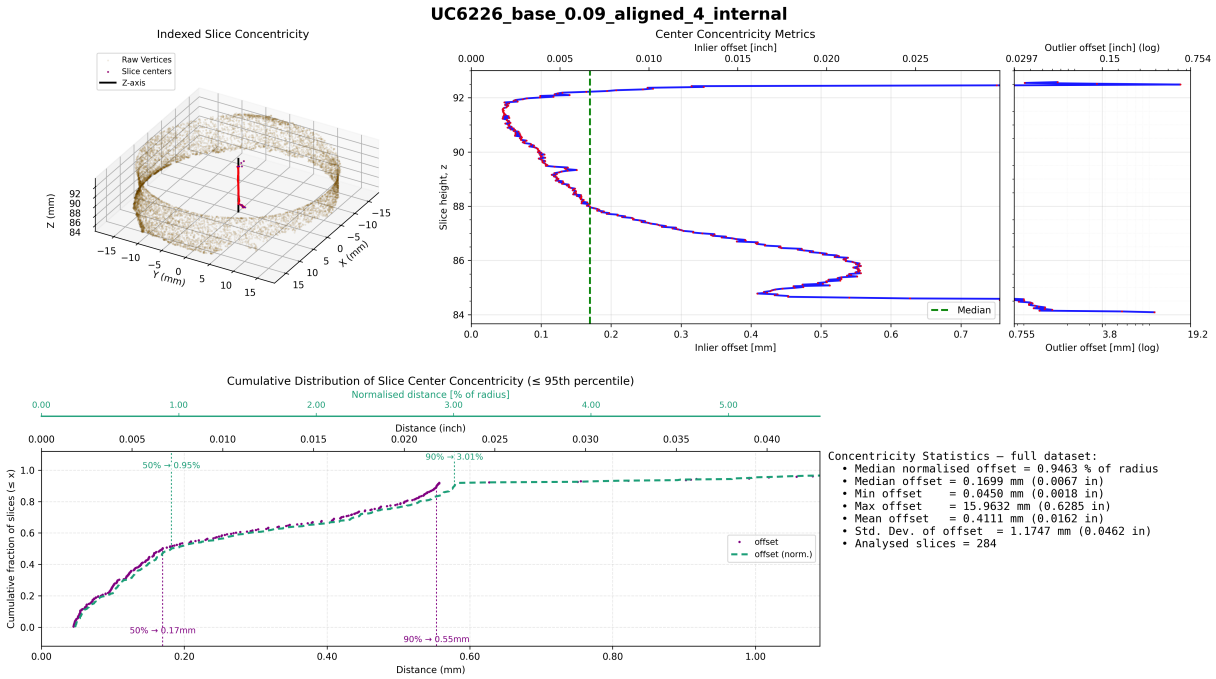

Figure 1.87: Concentricity (Internal)

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Chapter 2

Jars



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2.1 UC41050

2.1.1 Artifact Information





Accession Number	LDUCE-UC41050
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Basalt cylinder jar with flared base, one large chip on rim, several smaller on base. Otherwise intact.
Publications	Petrie, William Matthew Flinders, Funeral Furniture of Egypt; Stone and Metal Vases, p 17; pl II, No.37, pl XI, No 90.
Production Period	6th Dynasty
Material	basalt
Dimensions	height: 19.4 cms; width: 13.3 cms
Notes	Object Category: jars

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2.1.2 External

Circularity

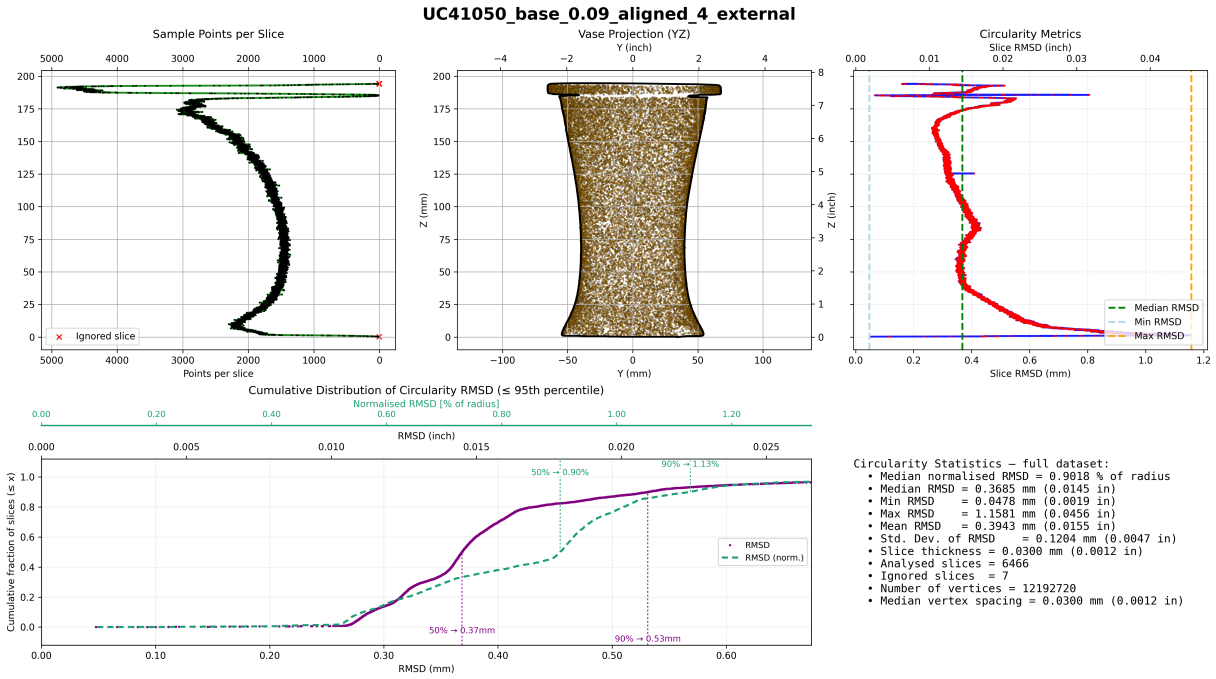

Figure 2.1: Circularity (External)

Concentricity

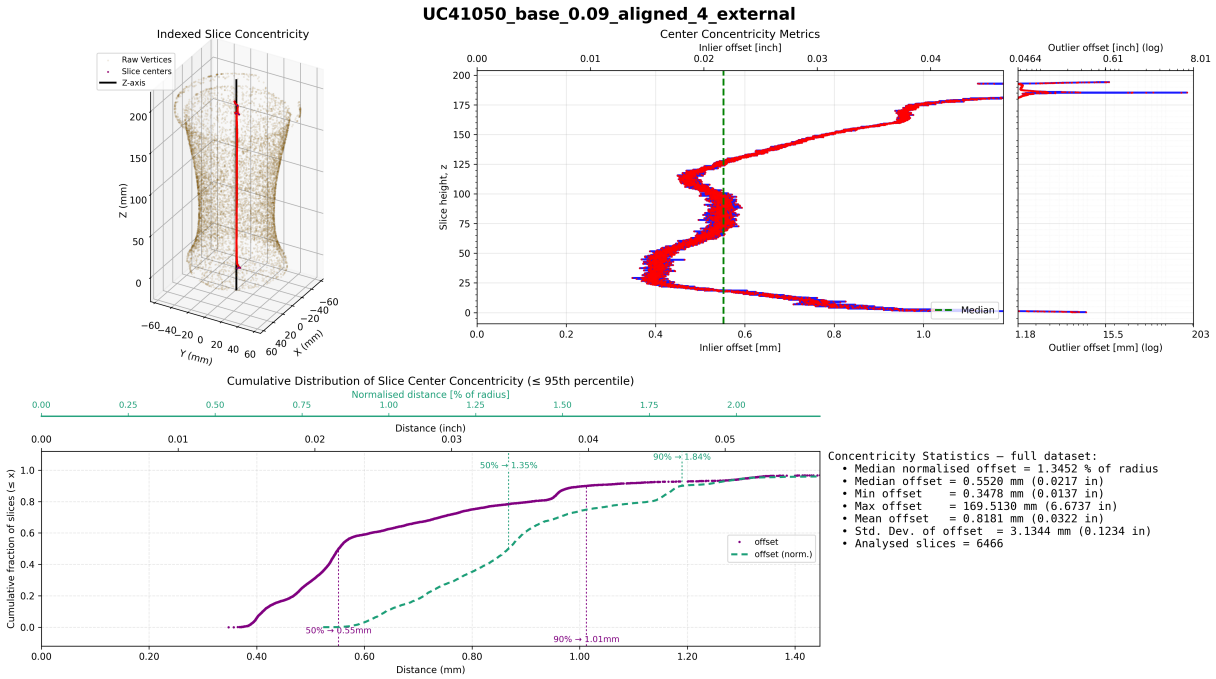

Figure 2.2: Concentricity (External)

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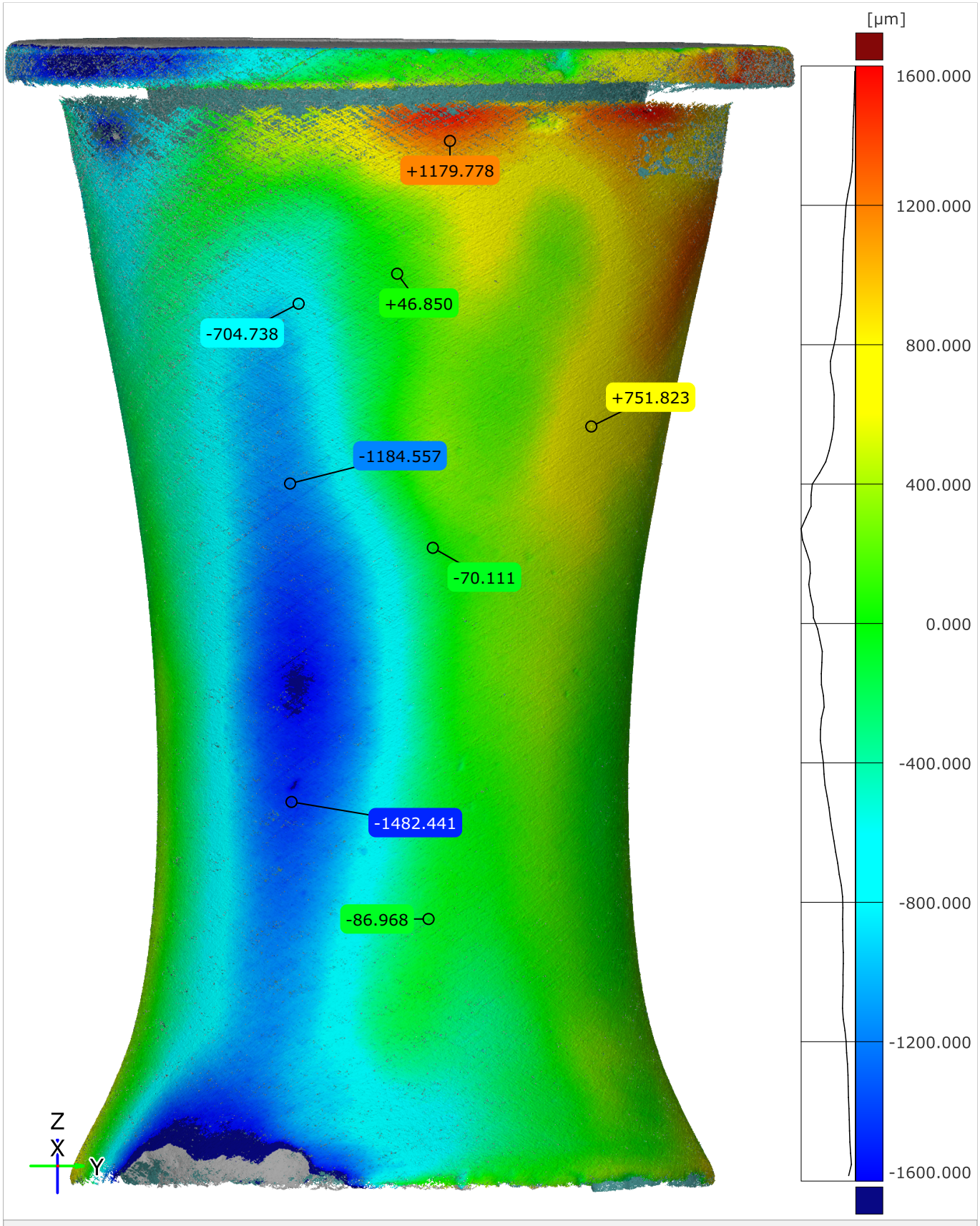
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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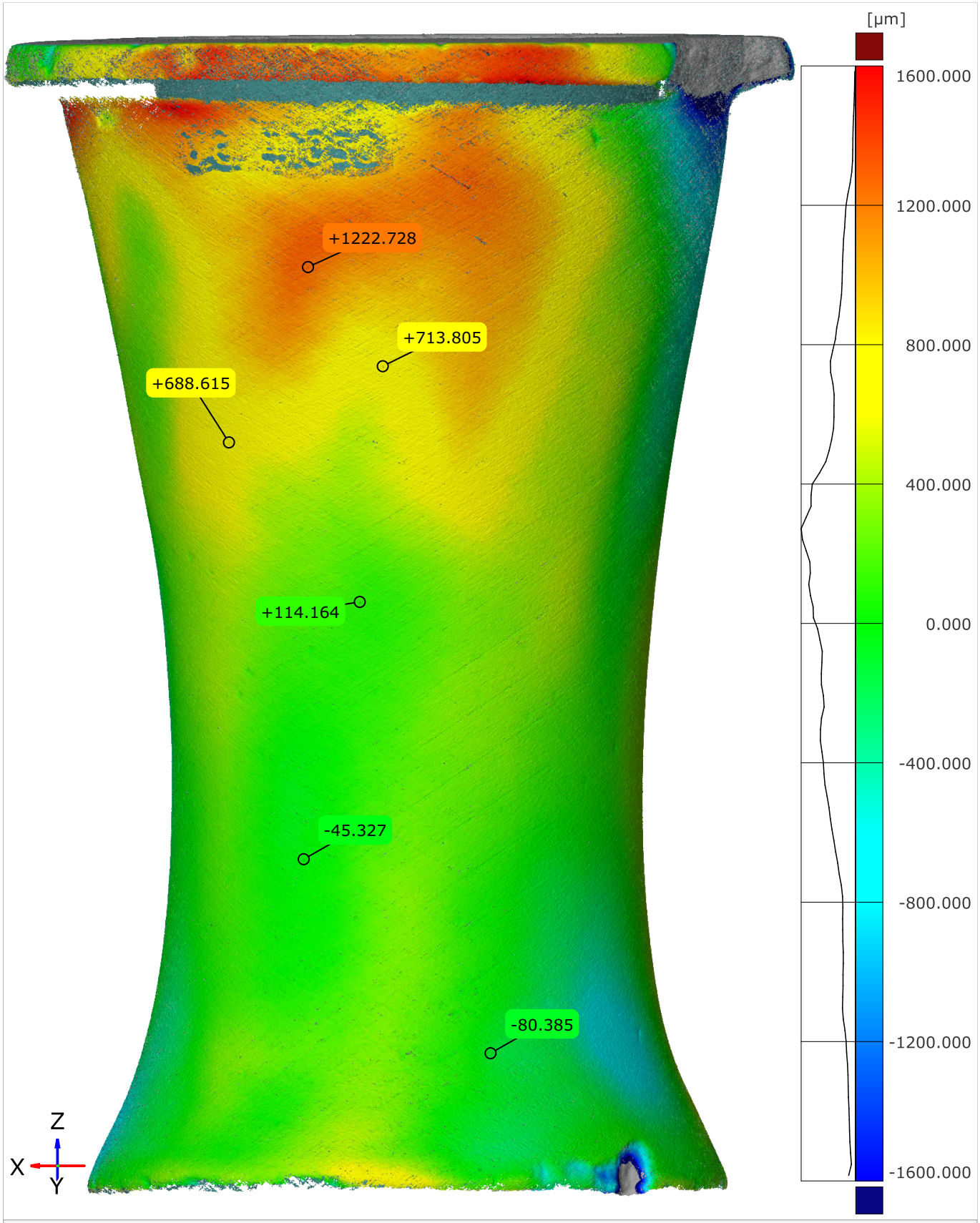
Surface Deviation Heatmap - Side 2



Original alignment — Length unit: µm

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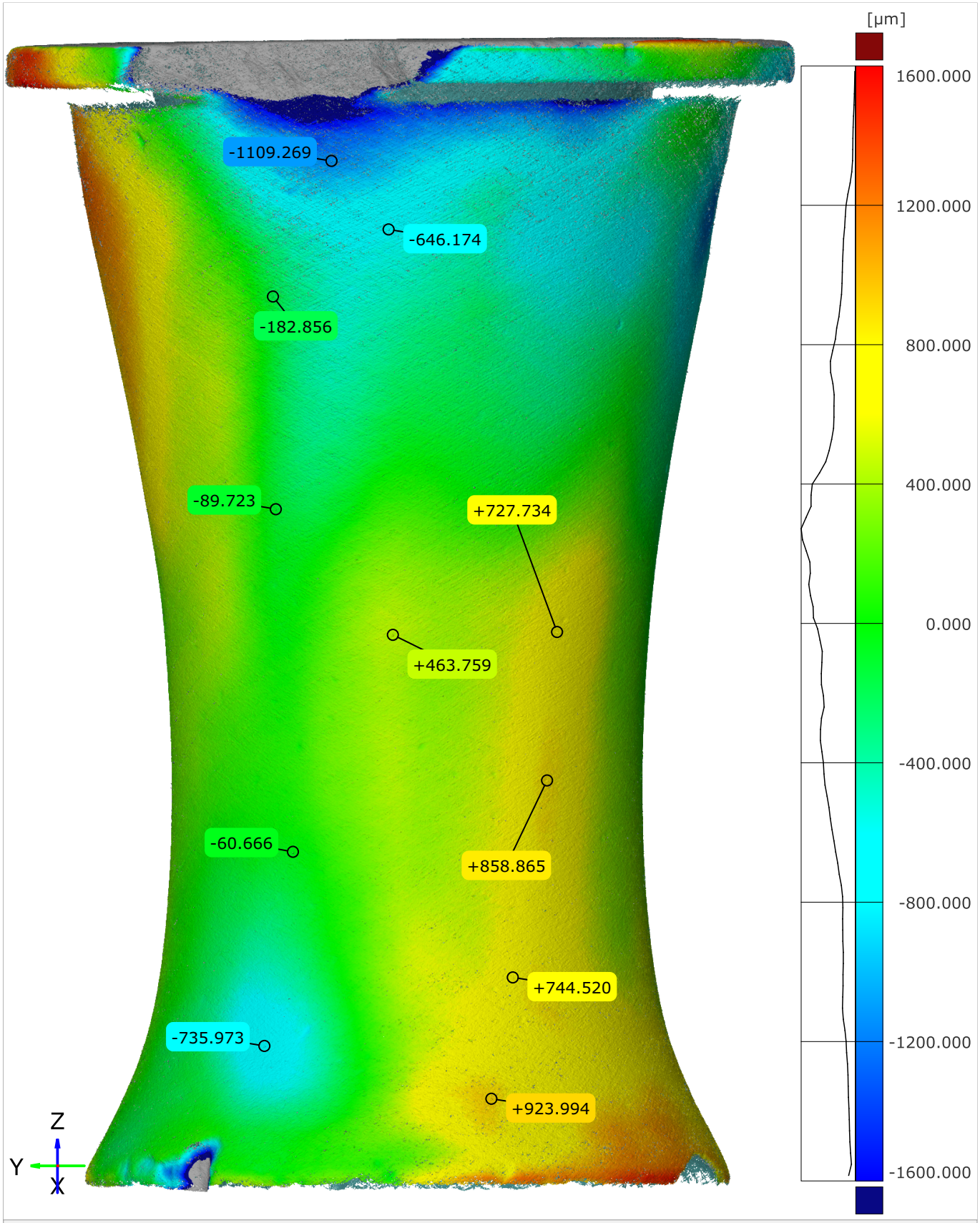
Surface Deviation Heatmap - Side 3



Original alignment — Length unit: µm

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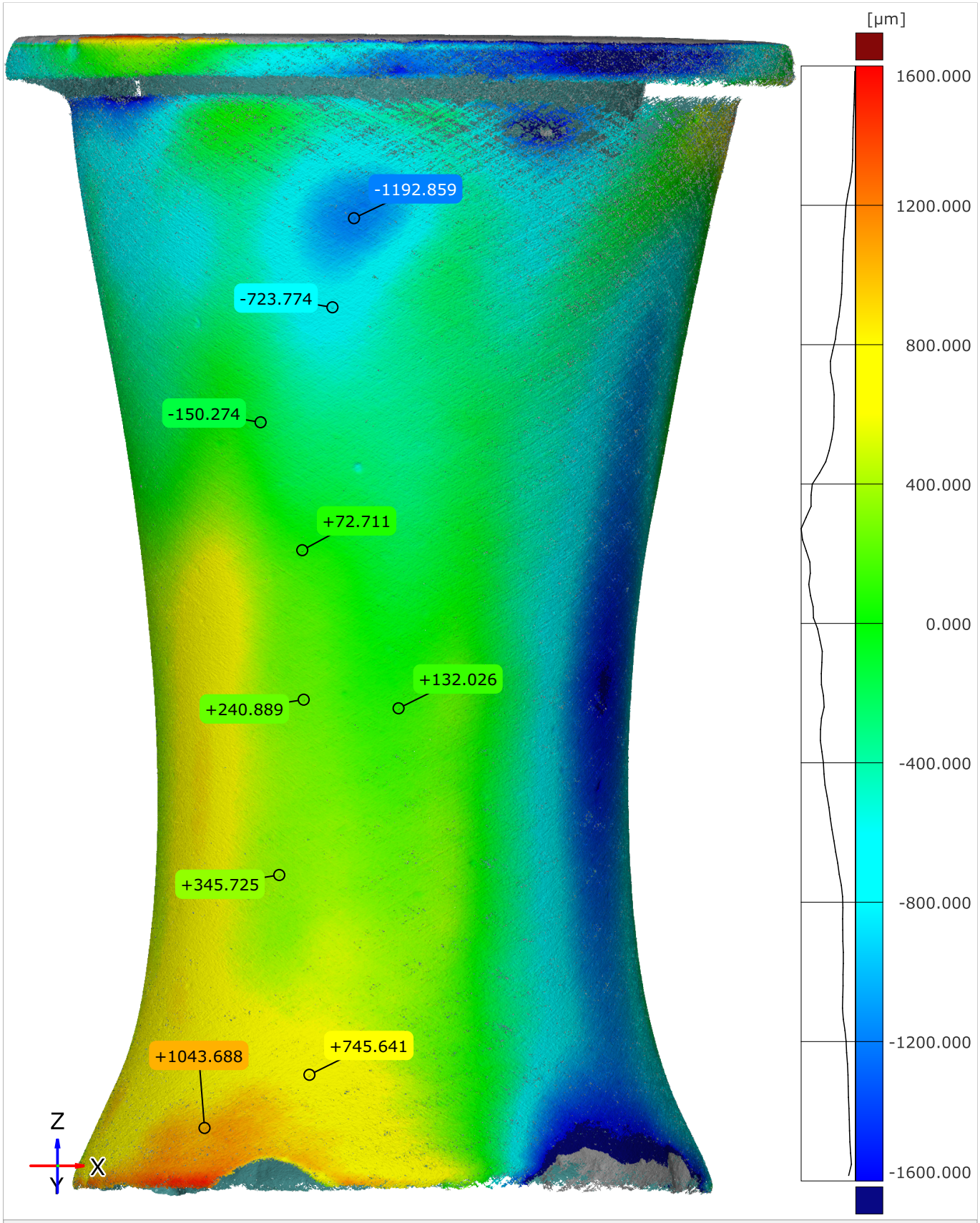
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

Petrie Museum of Egyptian Archaeology UC41050 4/4

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Surface Deviation ECDF

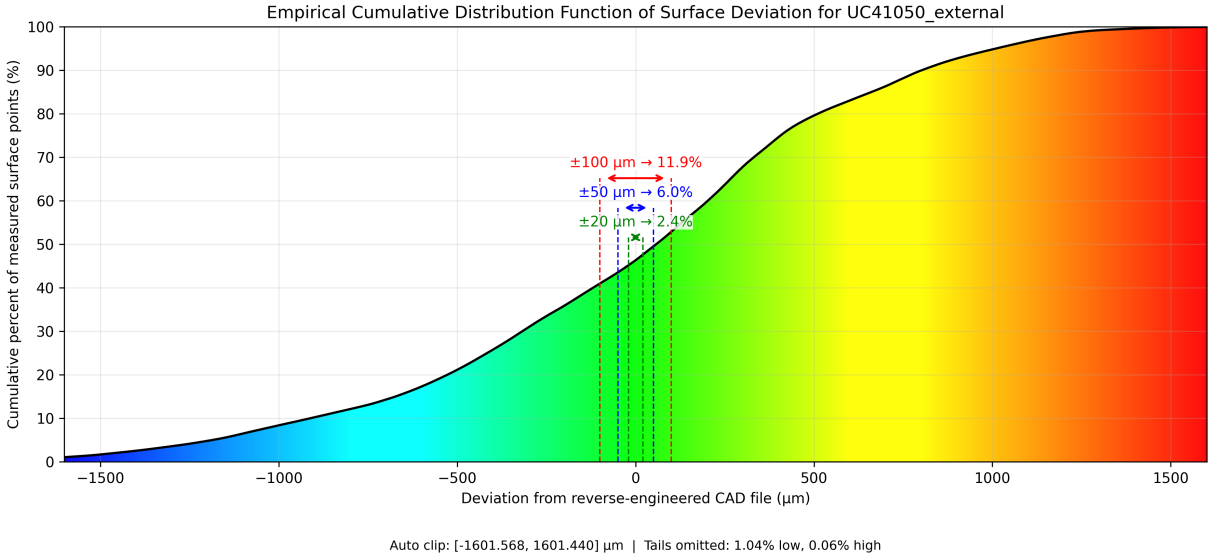

Figure 2.3: Surface Deviation ECDF (External)

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2.1.3 Internal

Circularity

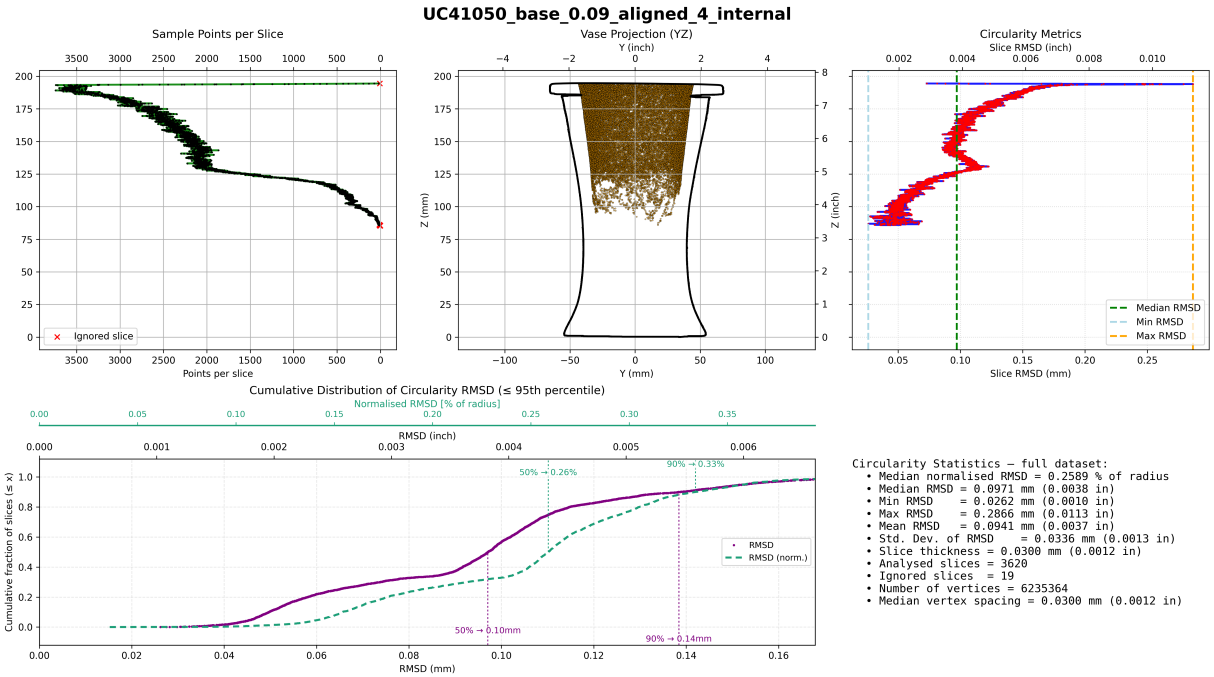

Figure 2.4: Circularity (Internal)

Concentricity

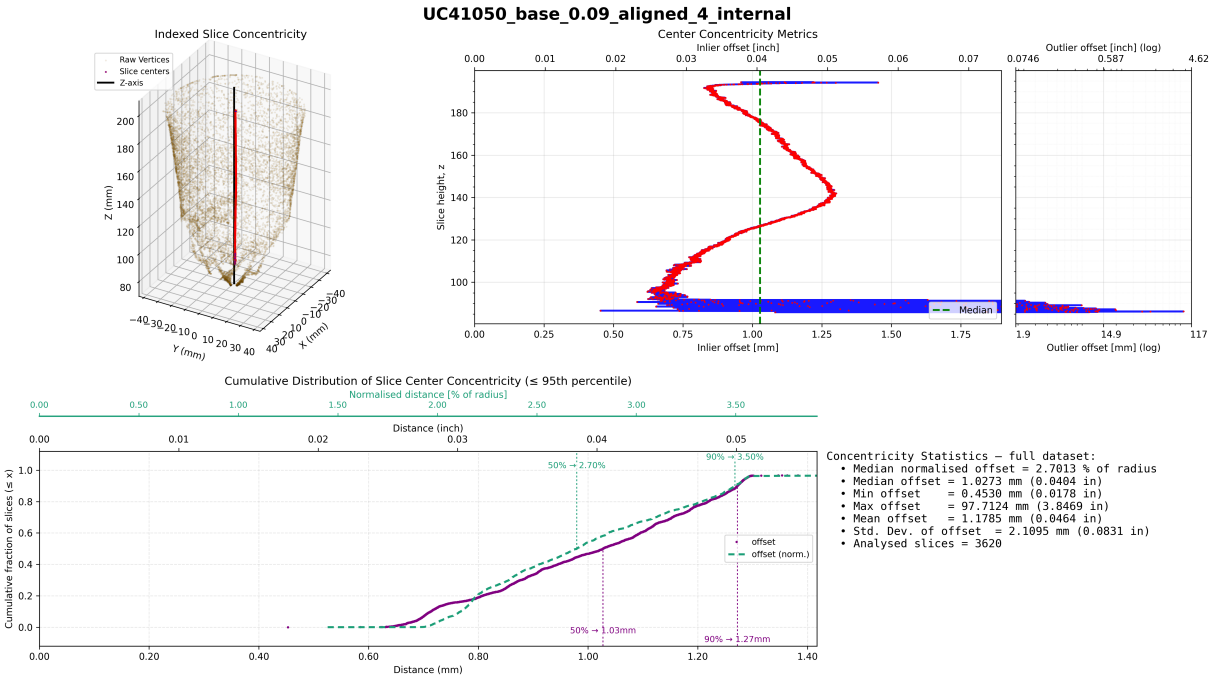

Figure 2.5: Concentricity (Internal)

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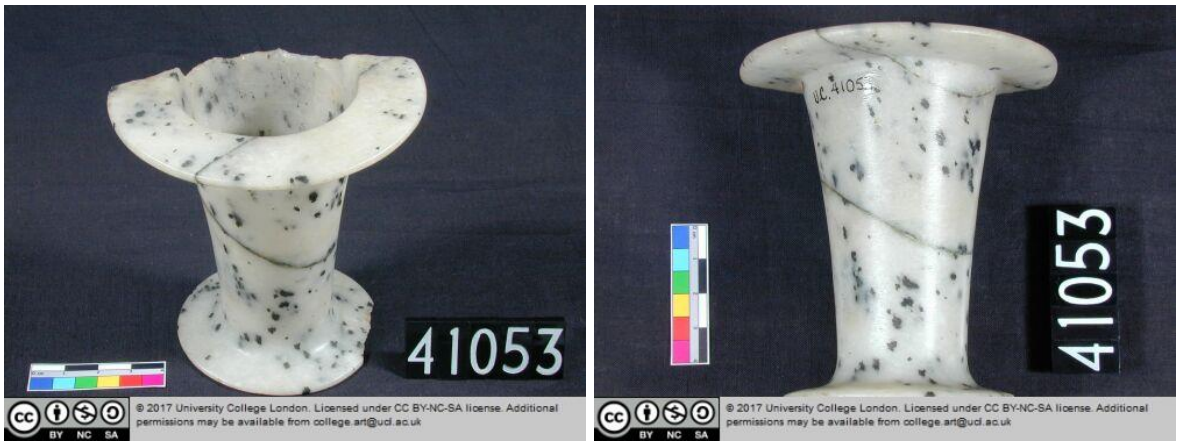
2.2 UC41053

2.2.1 Artifact Information



Accession Number	LDUCE-UC41053
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Slender diorite cylinder jar with sharply flared base and protruding rim. Large chip on base and approximately one third of rim missing.
Publications	Petrie, William Matthew Flinders, Funeral Furniture of Egypt; Stone and Metal Vases, p.5, 17; pl XI, No.95, pl II, No.49
Production Period	6th Dynasty
Material	diorite
Dimensions	height: 10.3 cms; length: 8.5 cms
Notes	Object Category: jars

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2.2.2 External

Circularity

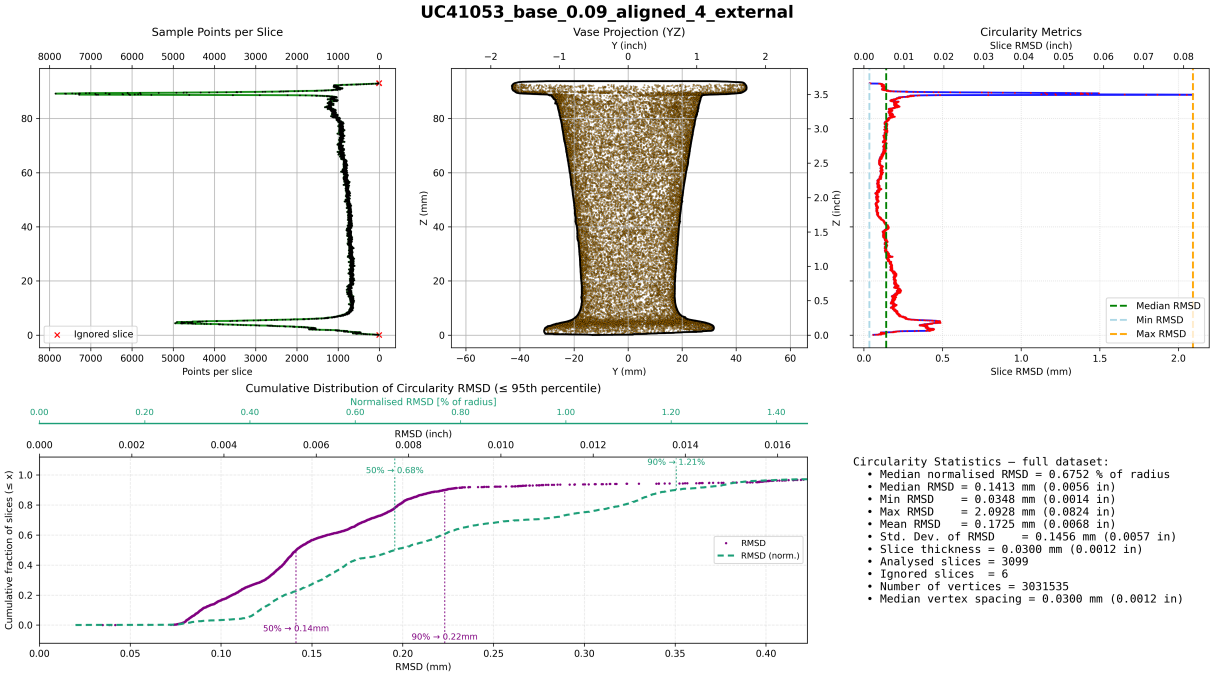

Figure 2.6: Circularity (External)

Concentricity

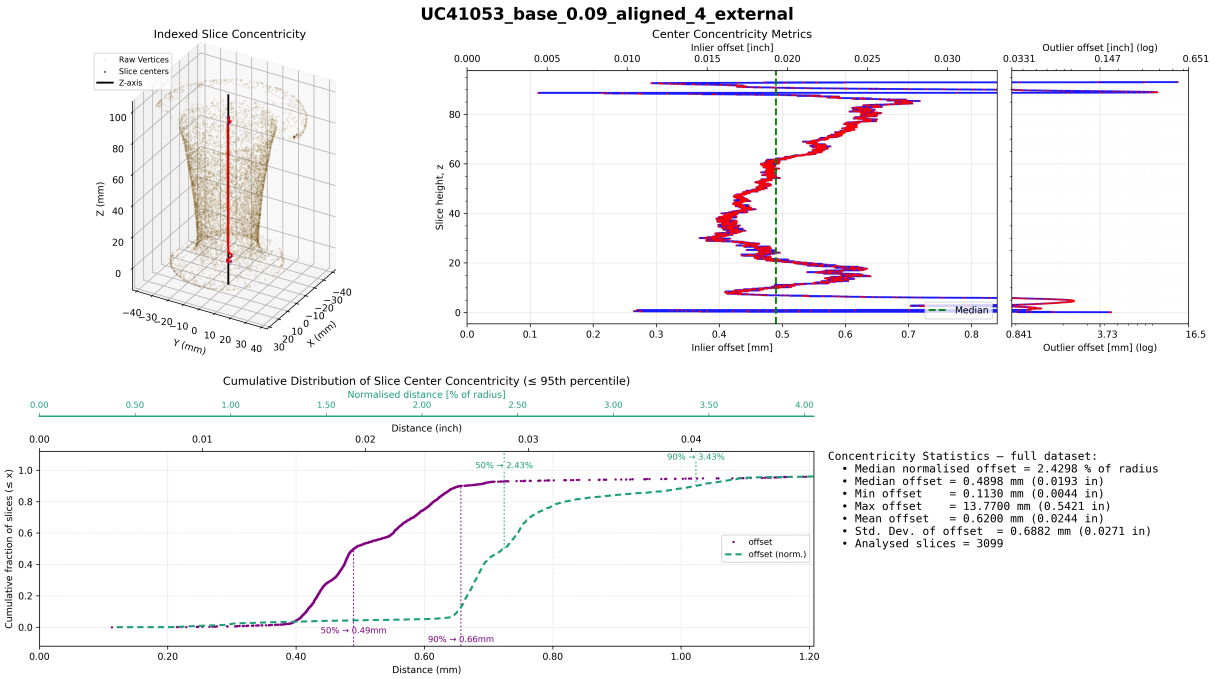

Figure 2.7: Concentricity (External)

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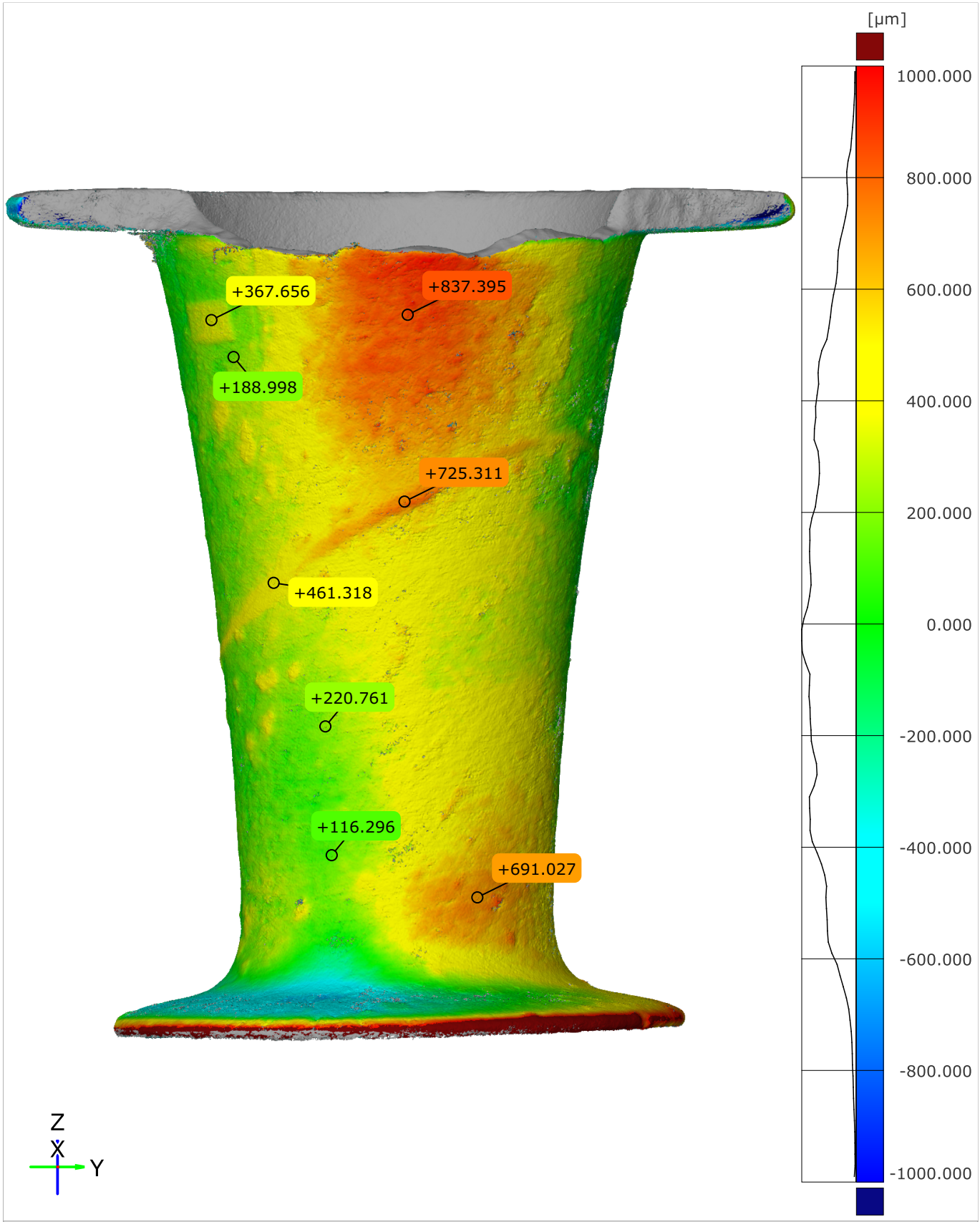
Surface Deviation Heatmap - Side 1



Original alignment — Length unit: µm

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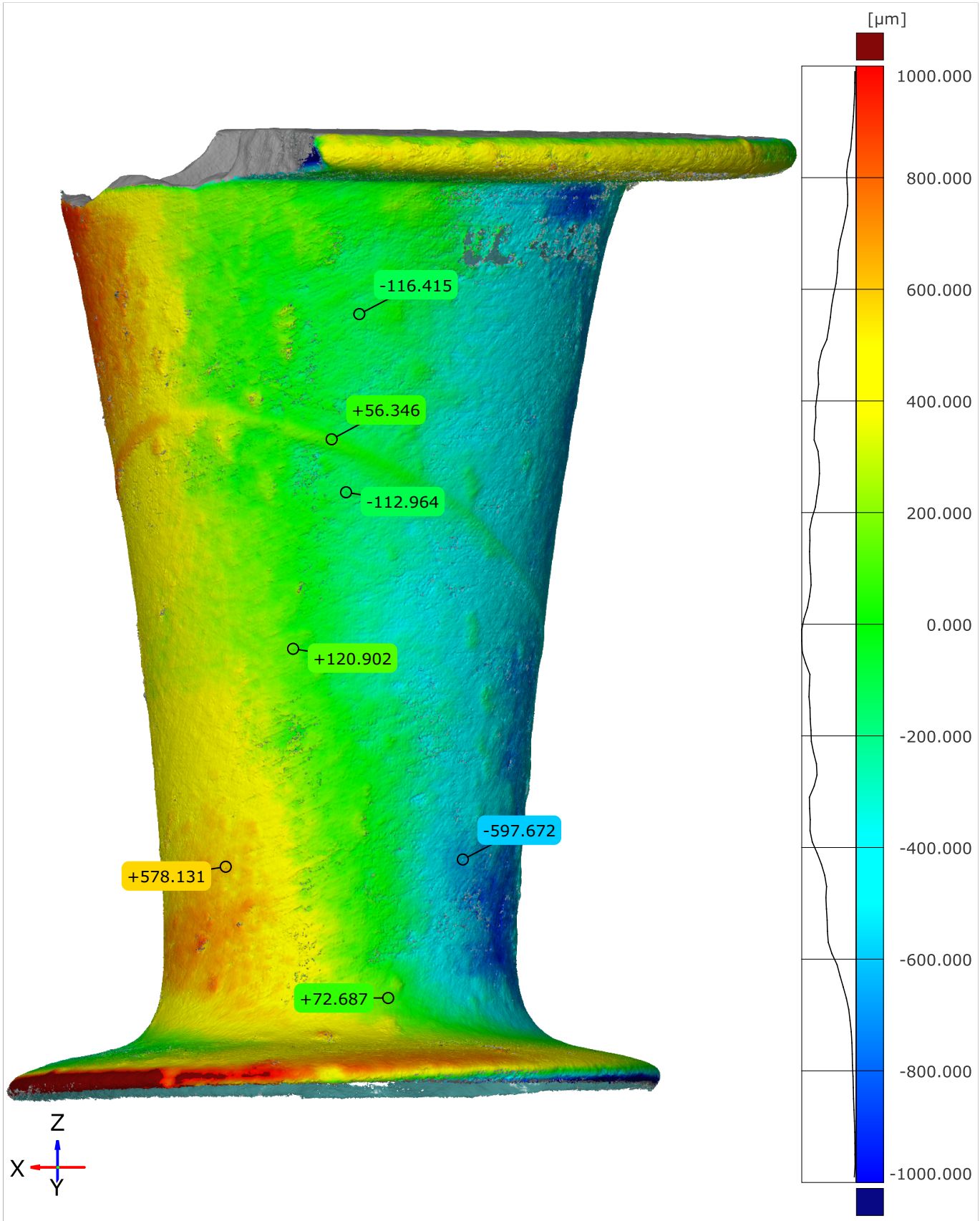
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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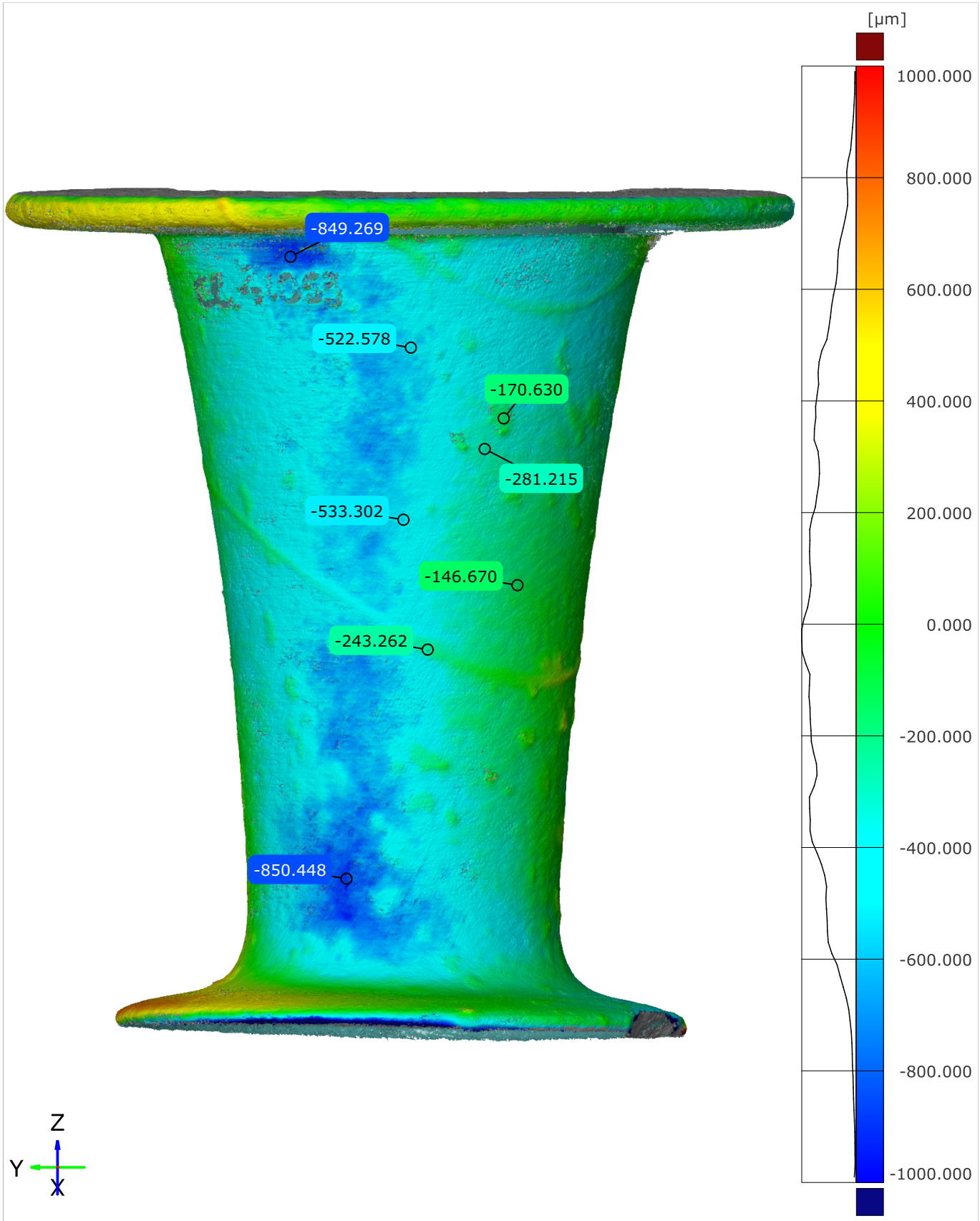
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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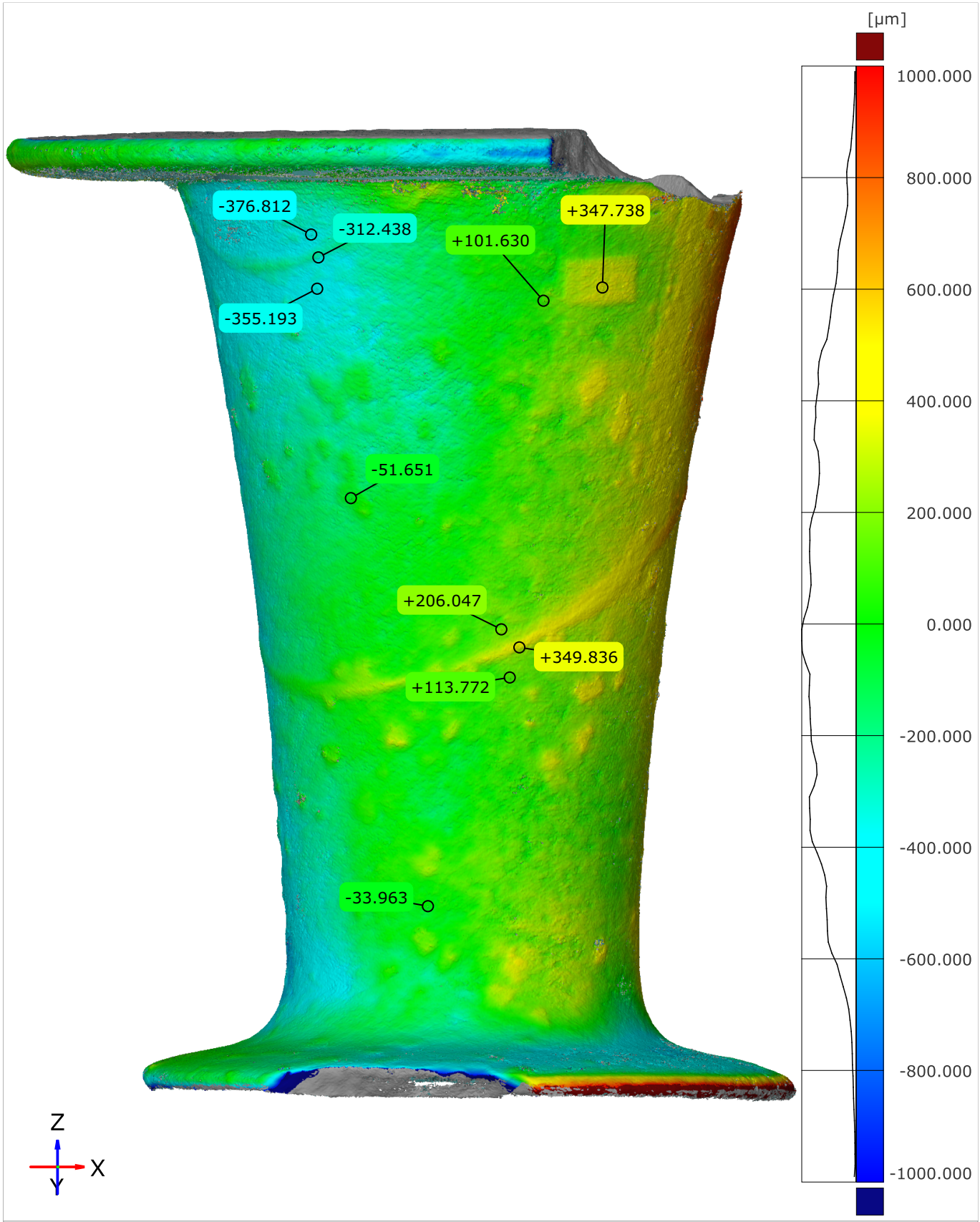
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

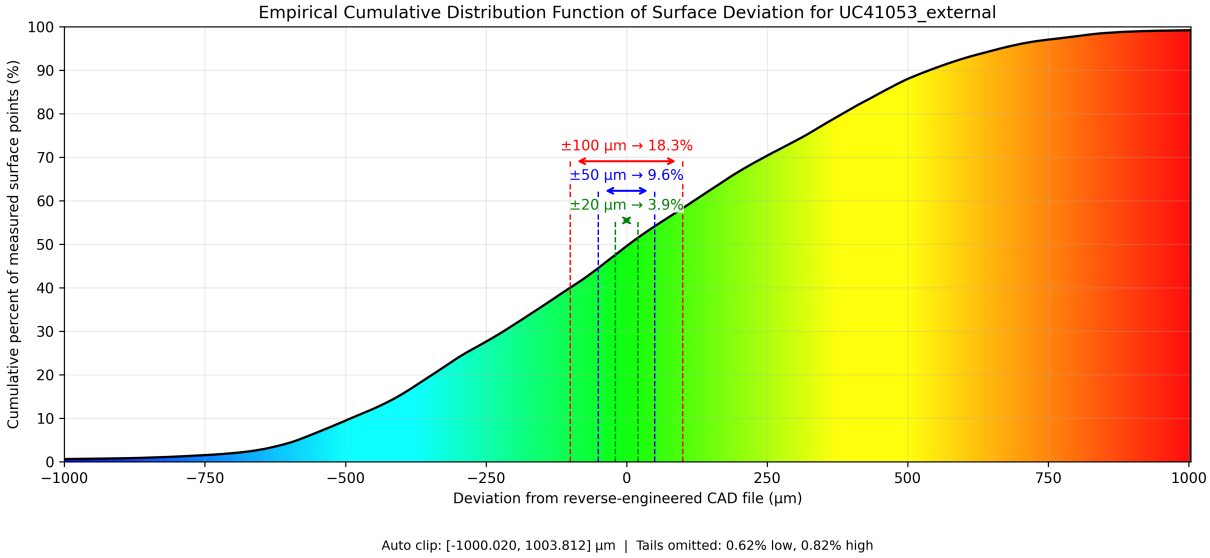

Figure 2.8: Surface Deviation ECDF (External)

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2.2.3 Internal

Circularity

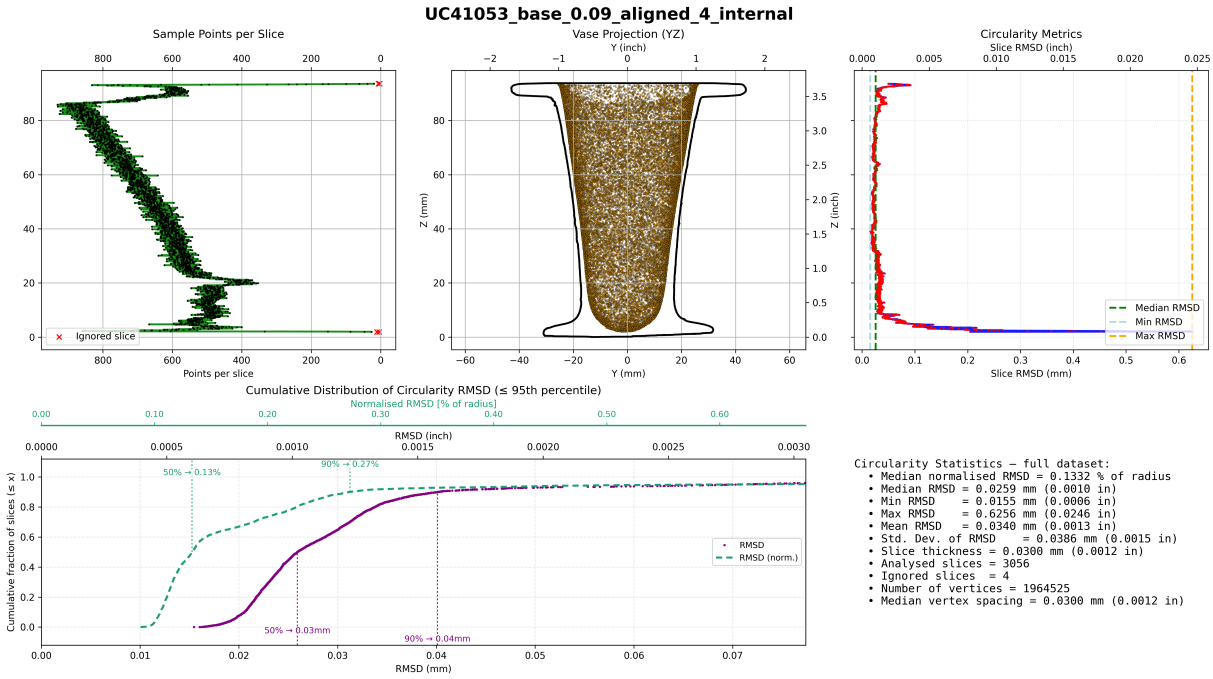

Figure 2.9: Circularity (Internal)

Concentricity

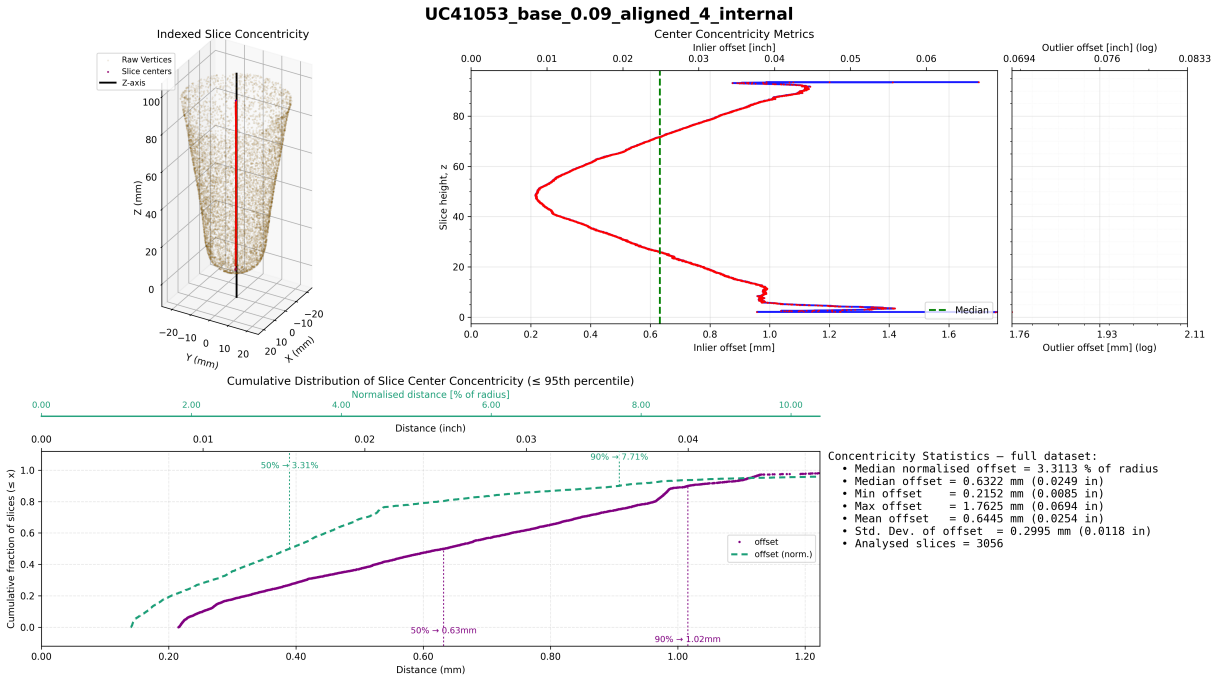

Figure 2.10: Concentricity (Internal)

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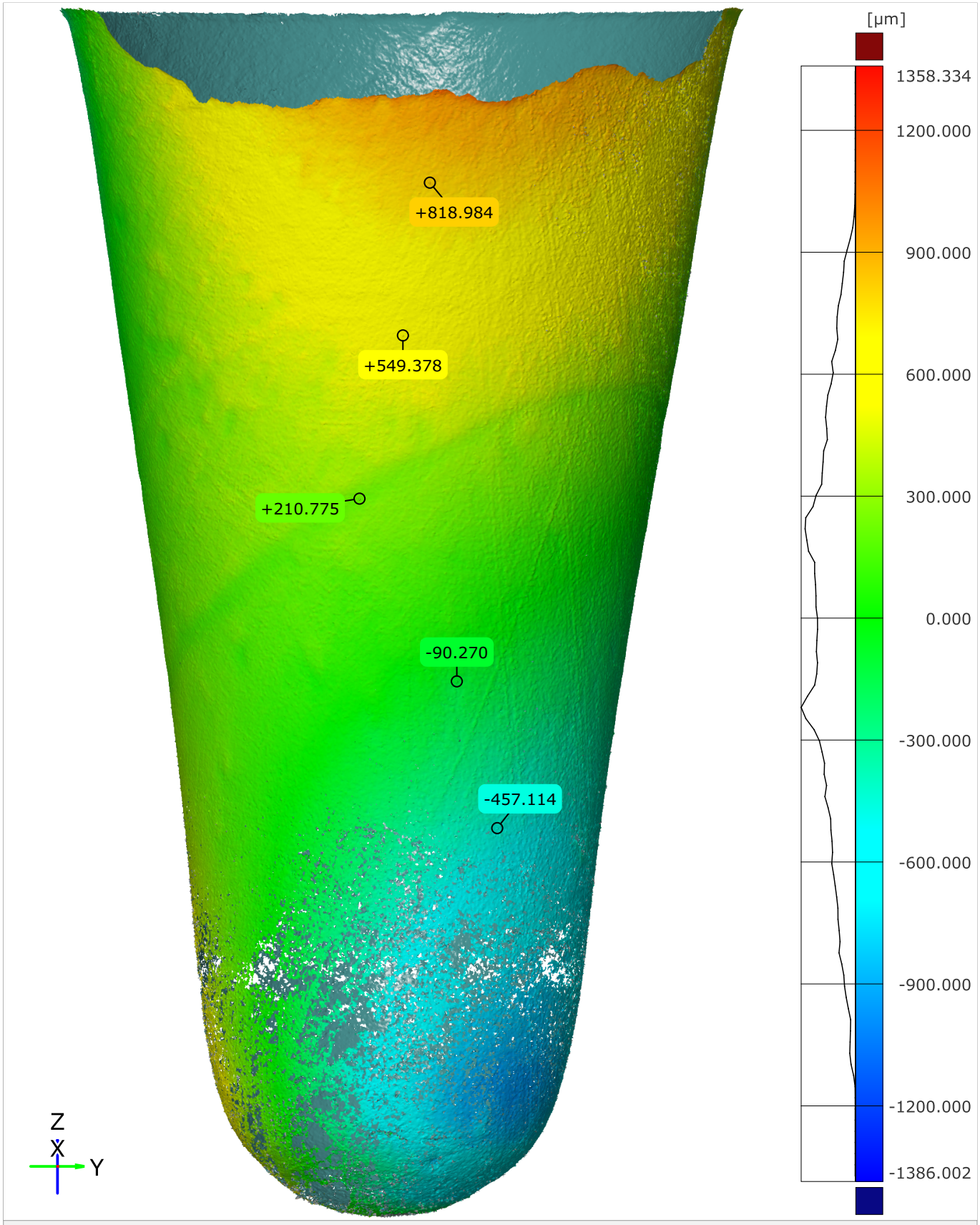
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

Petrie Museum of Egyptian Archaeology UC41053 - interior 1/4

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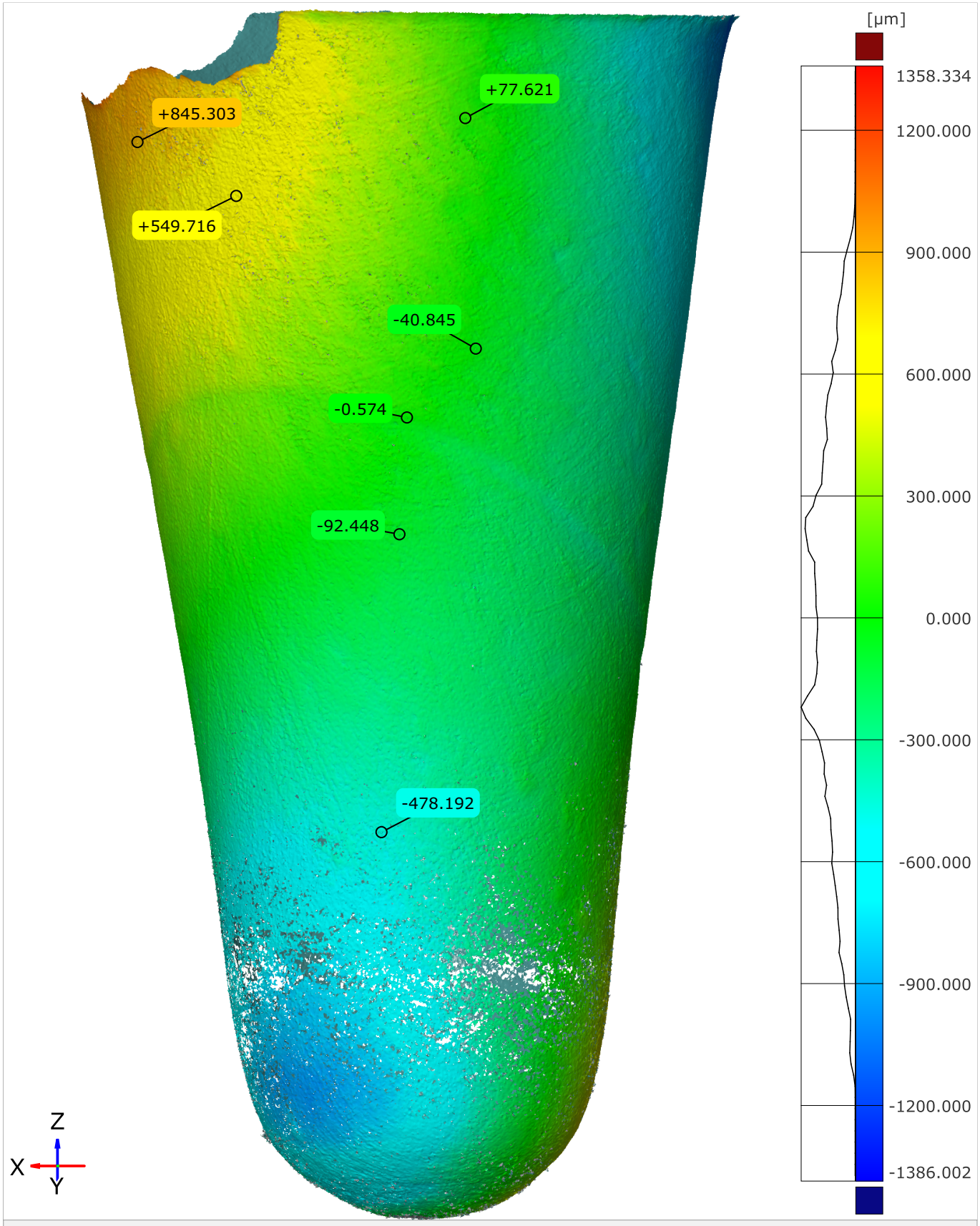
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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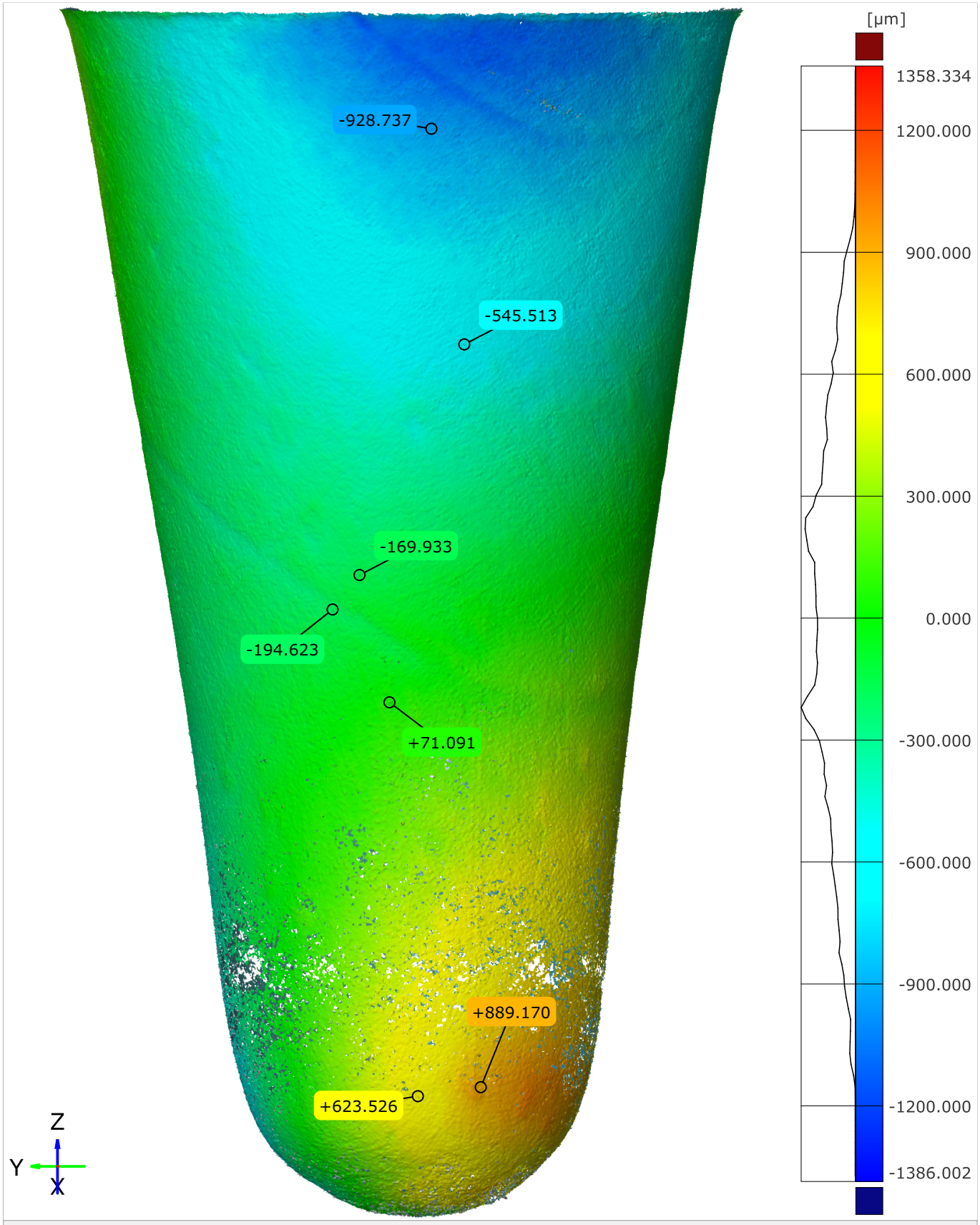
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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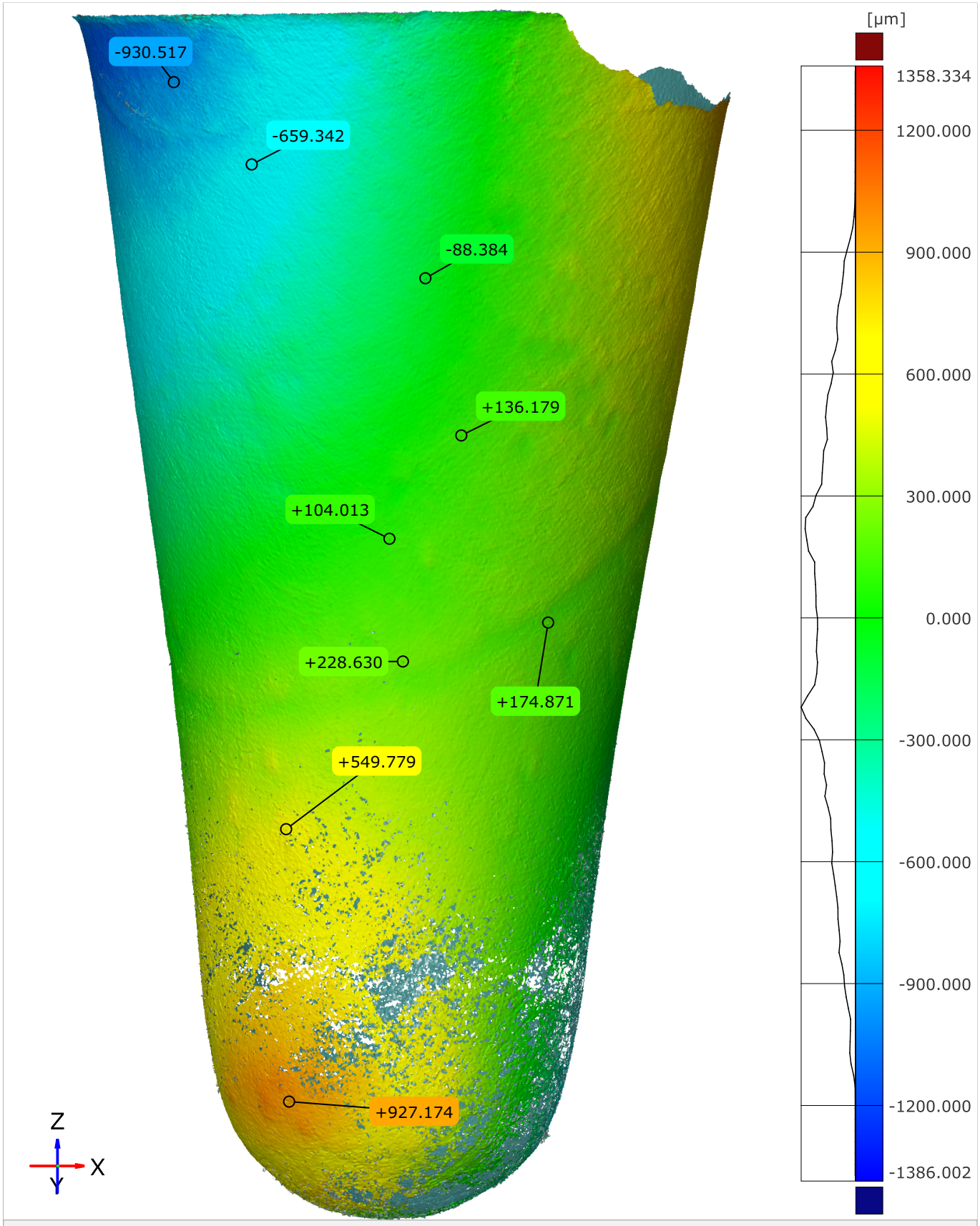
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

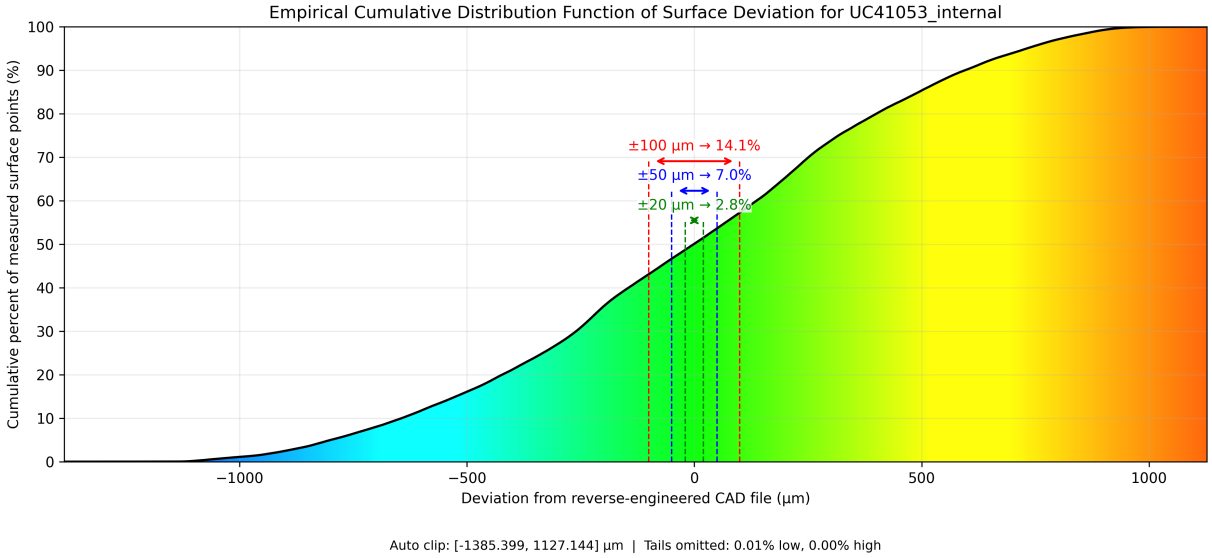

Figure 2.11: Surface Deviation ECDF (Internal)

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Chapter 3

Bowls



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3.1 UC17722

3.1.1 Artifact Information



Accession Number	LDUCE-UC17722
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Banded grey Diorite gneiss bowl, part of rim missing.
Publications	Petrie, William Matthew Flinders, Funeral Furniture of Egypt; Stone and Metal Vases, IV, 114. XXIII.385. p.19
Production Period	3rd Dynasty
Material	diorite
Dimensions	diameter: 12 cms maximum
Notes	Object Category: bowls

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3.1.2 External

Circularity

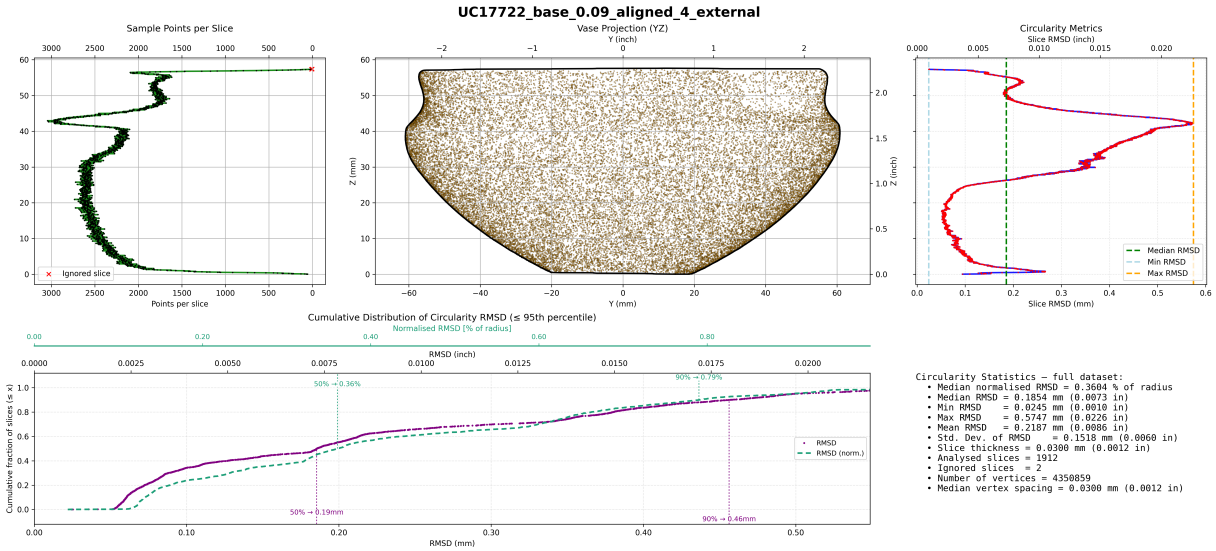

Figure 3.1: Circularity (External)

Concentricity

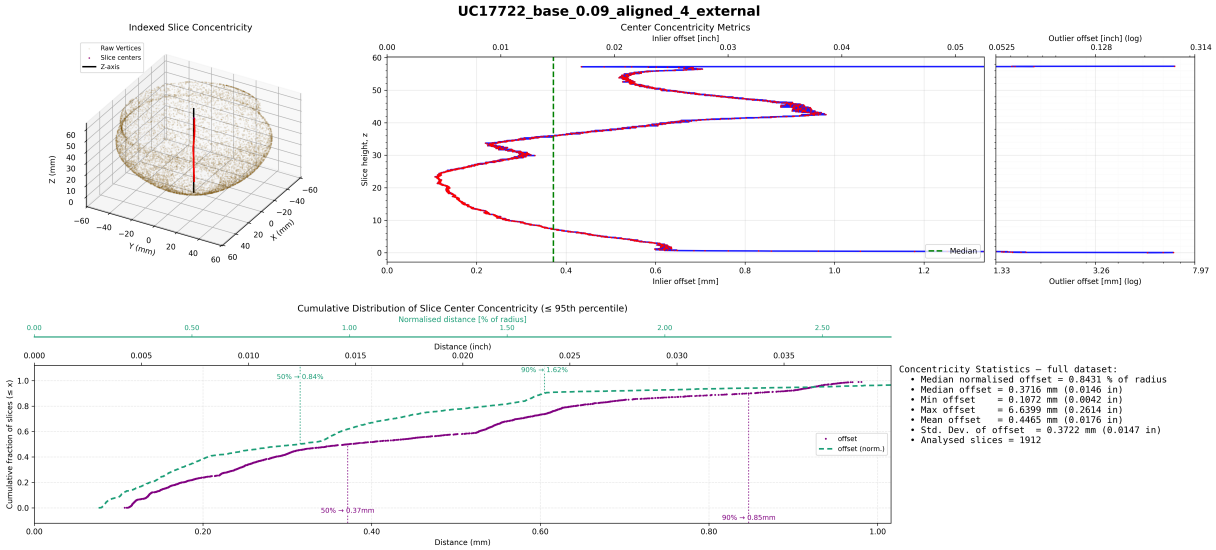

Figure 3.2: Concentricity (External)

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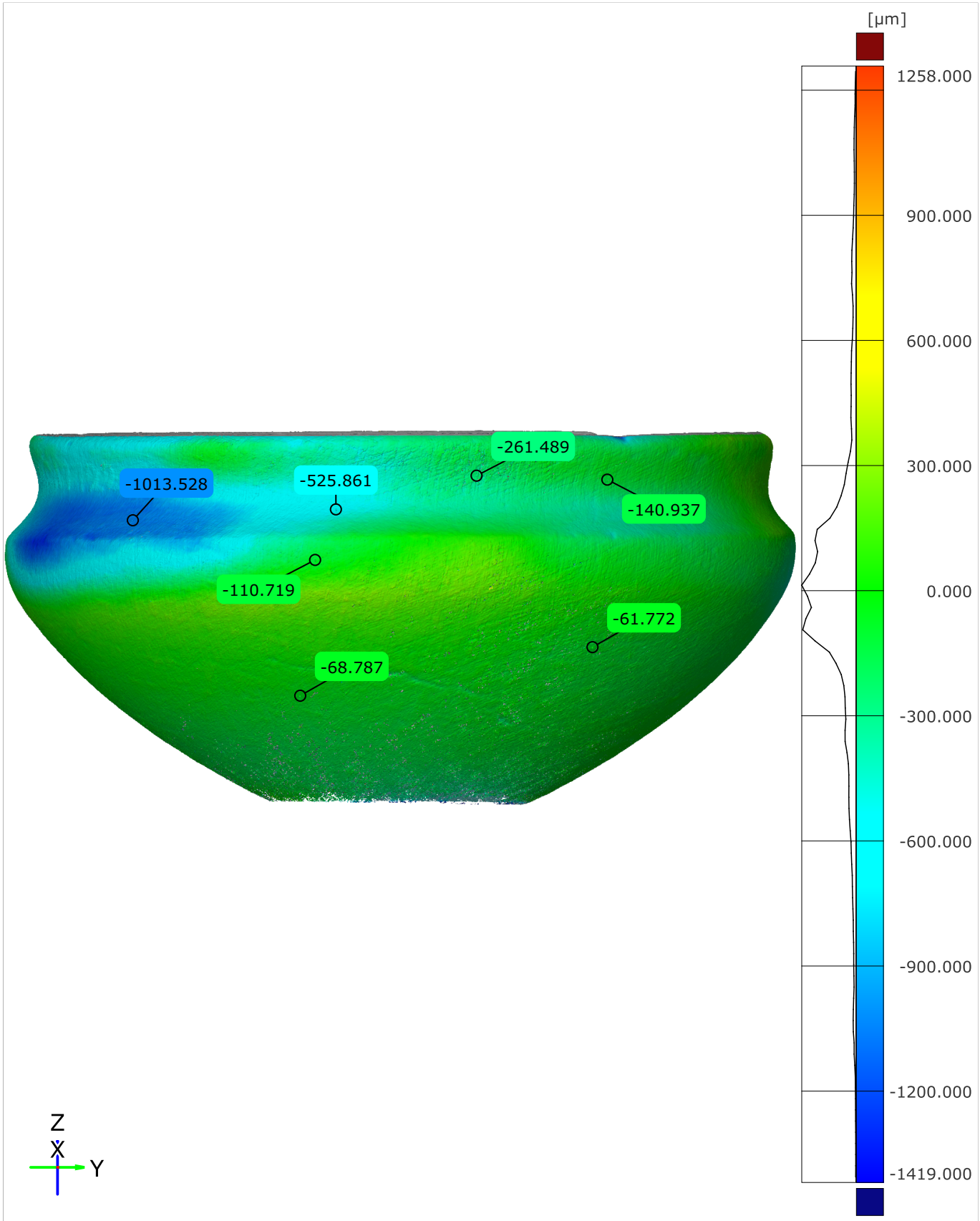
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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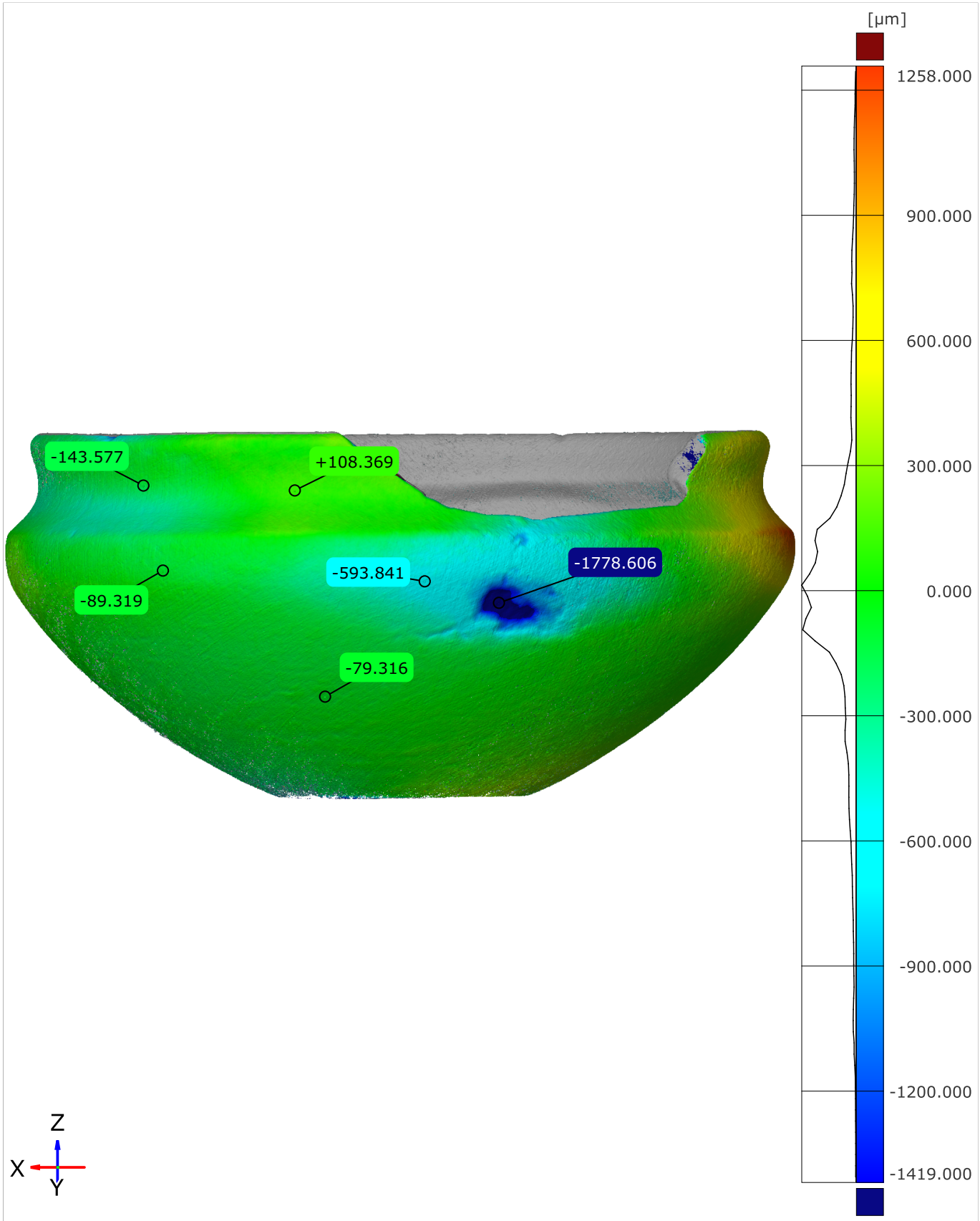
Surface Deviation Heatmap - Side 2



Original alignment

Length unit: µm

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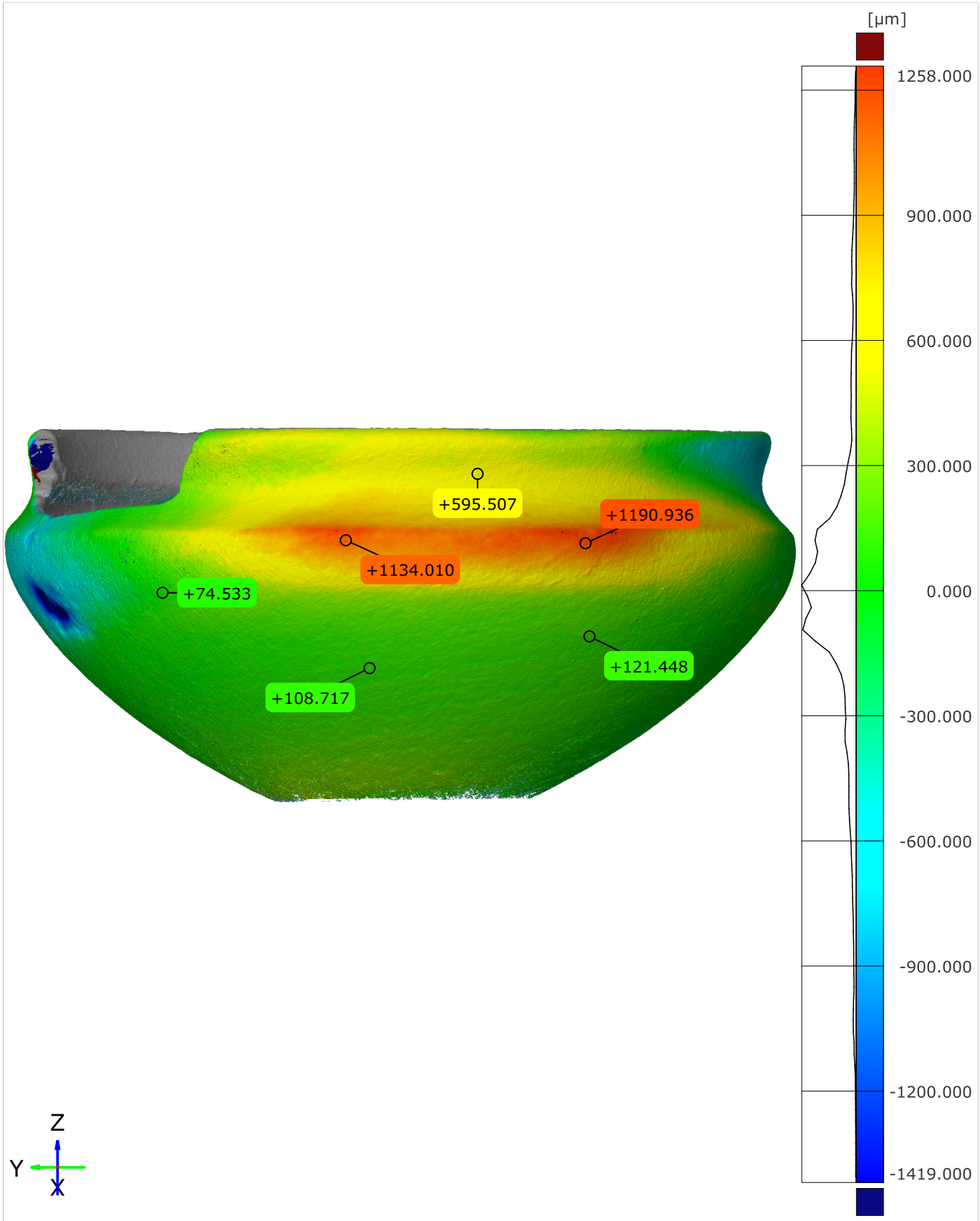
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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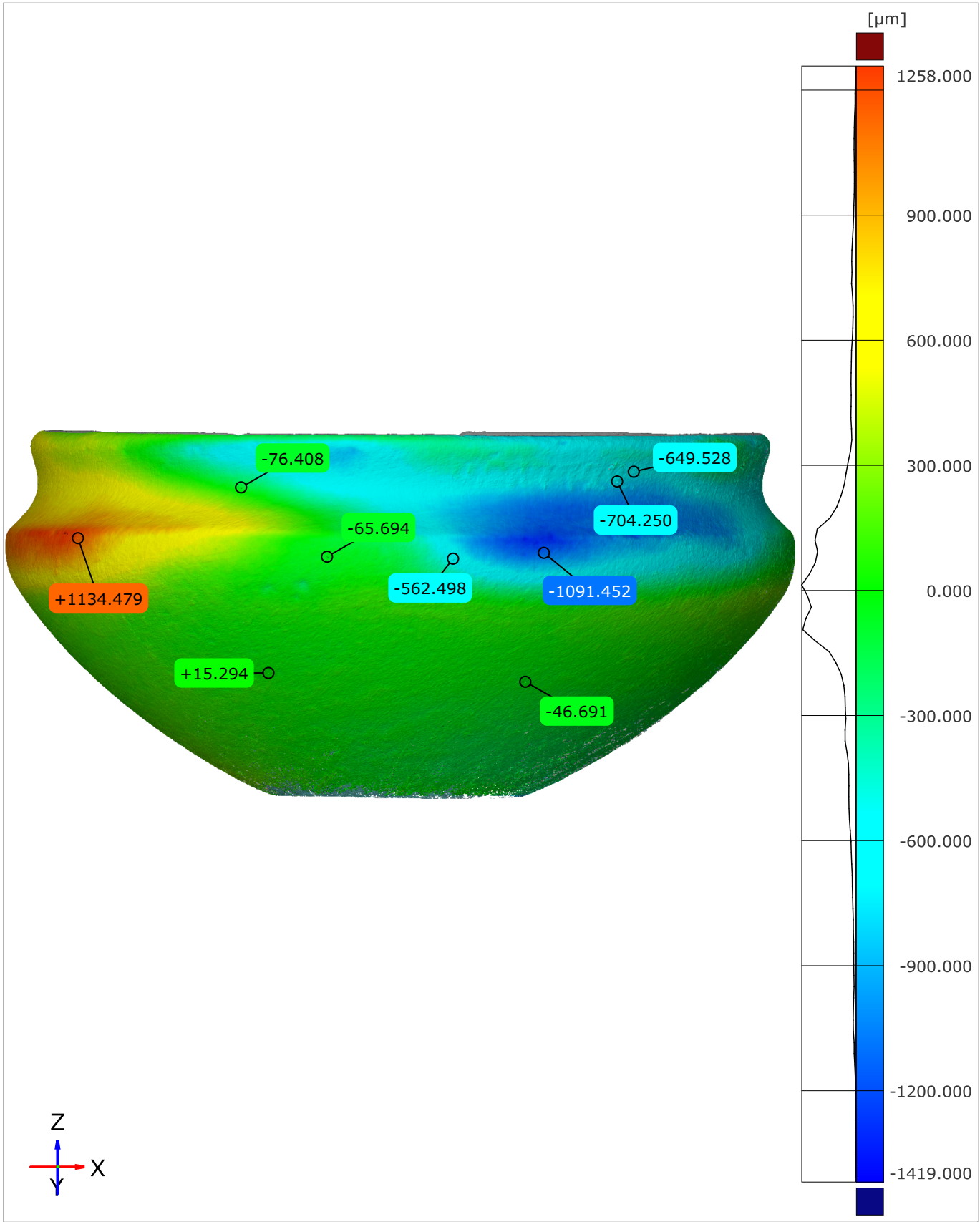
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

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Surface Deviation ECDF

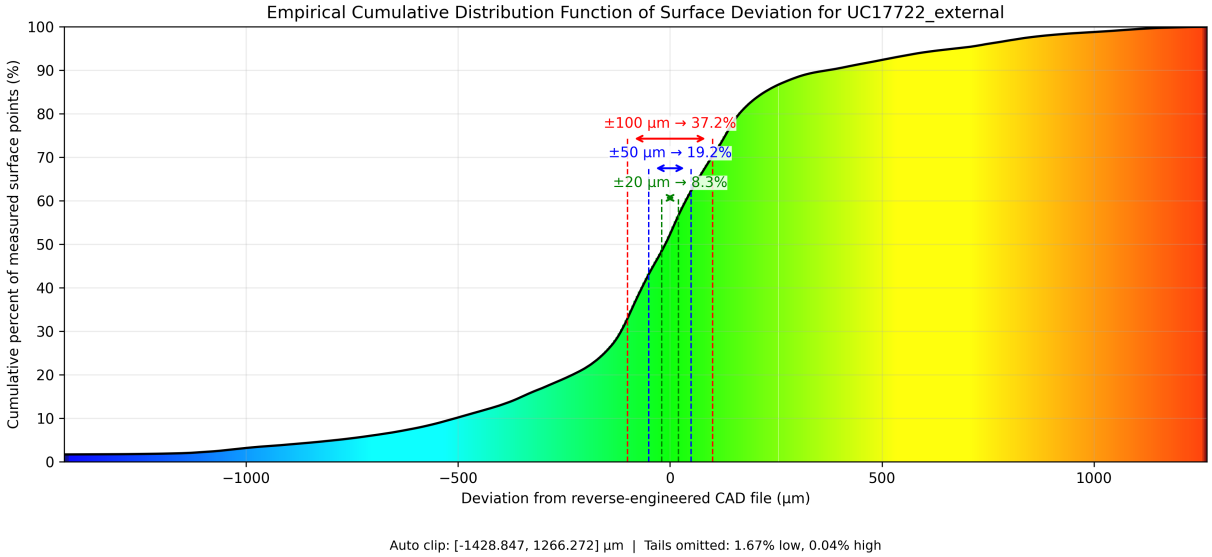

Figure 3.3: Surface Deviation ECDF (External)

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3.1.3 Internal

Circularity

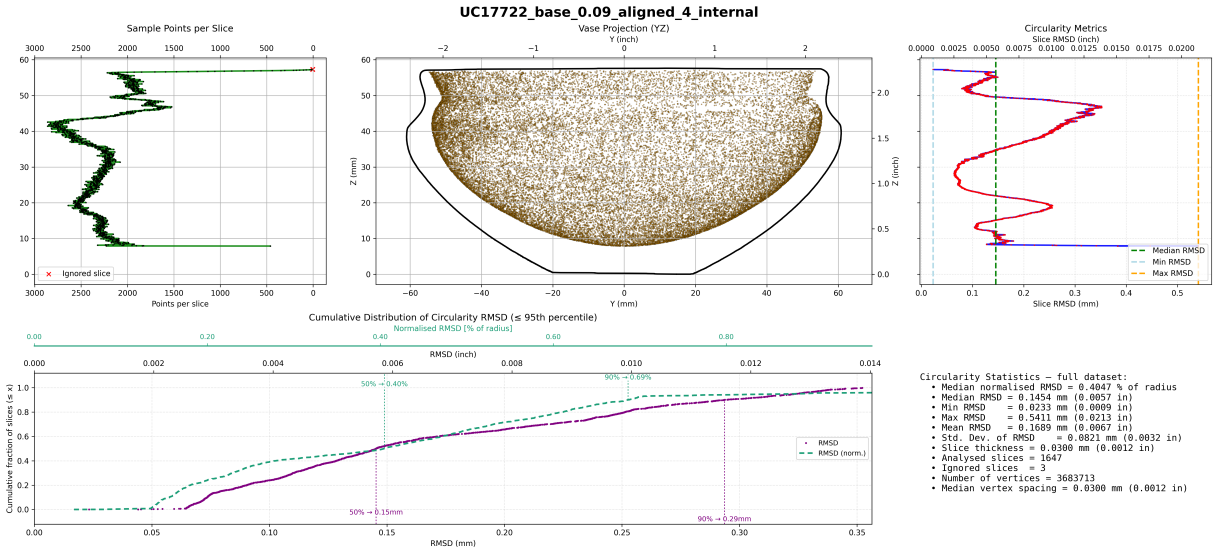

Figure 3.4: Circularity (Internal)

Concentricity

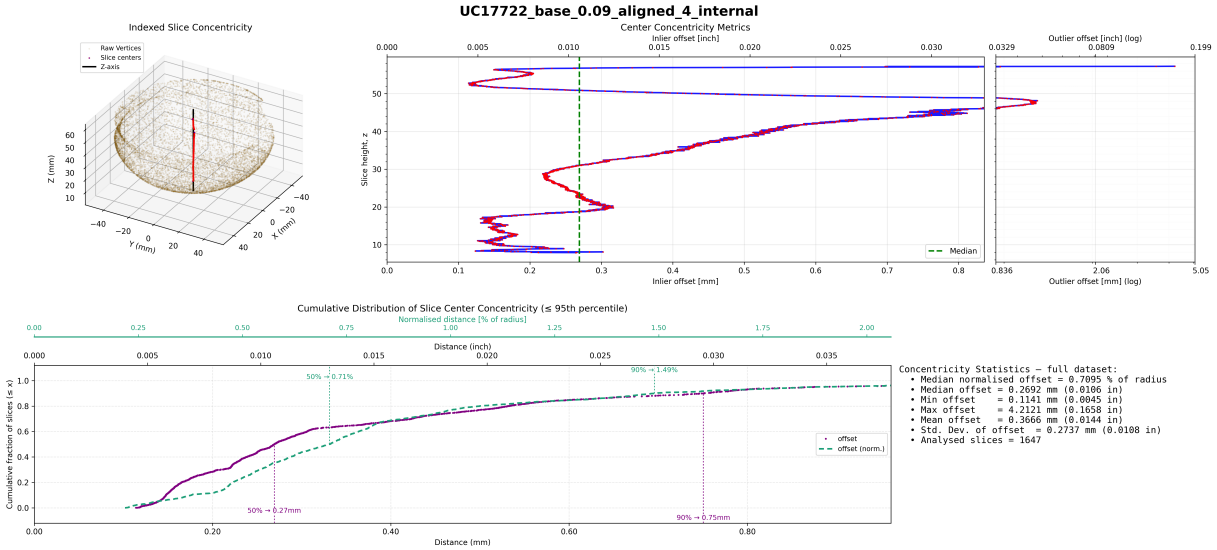

Figure 3.5: Concentricity (Internal)

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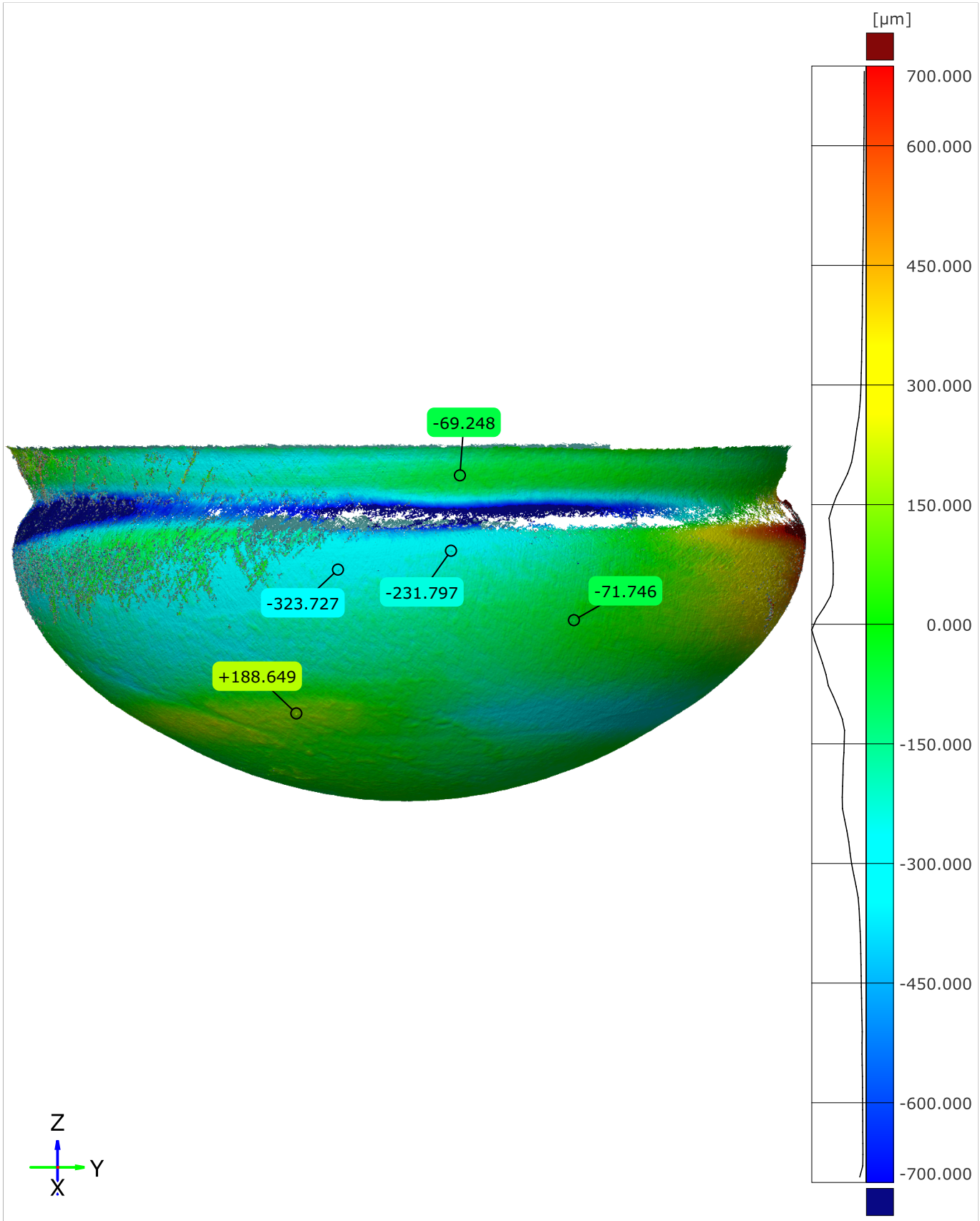
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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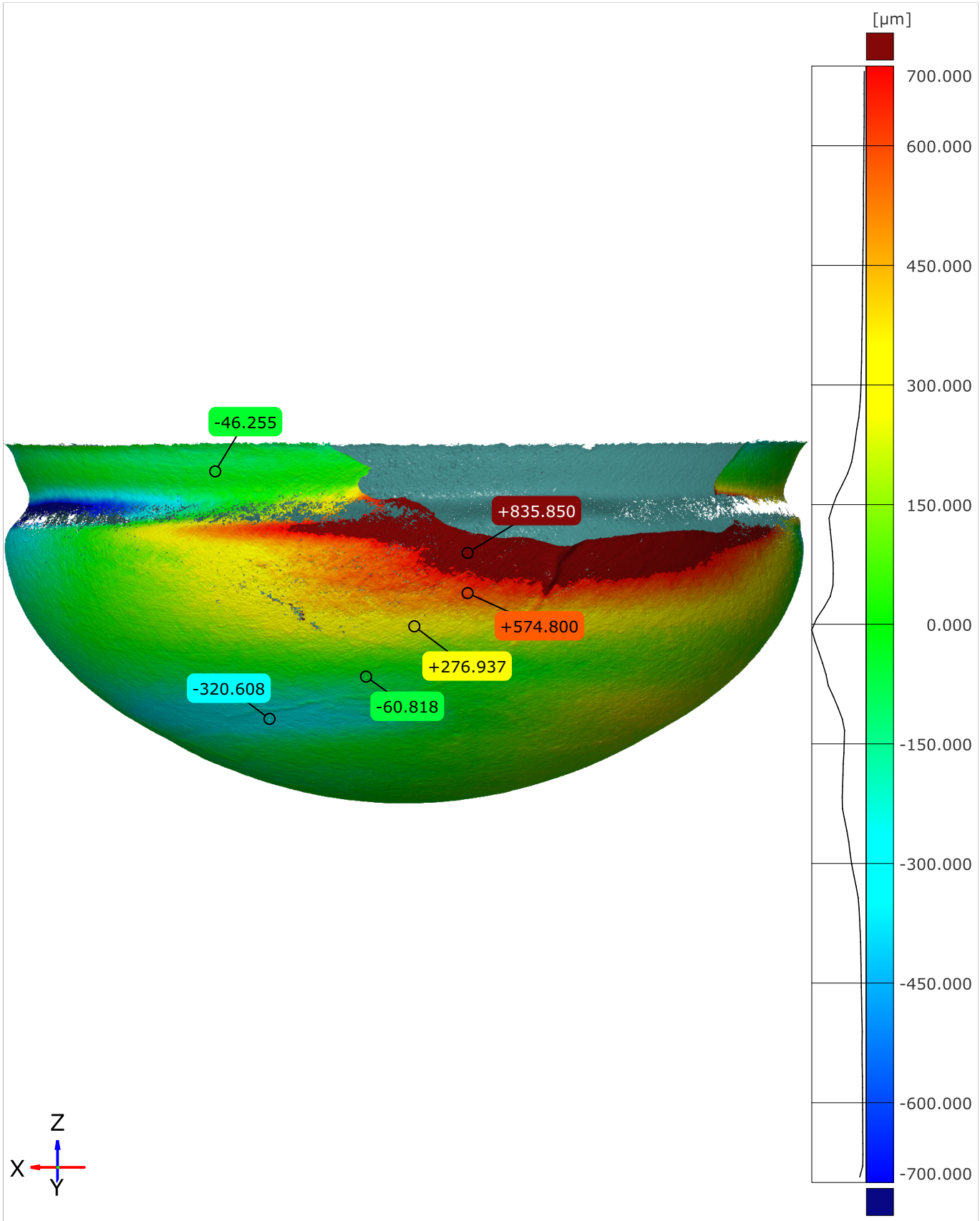
Surface Deviation Heatmap - Side 2



Original alignment Length unit: µm

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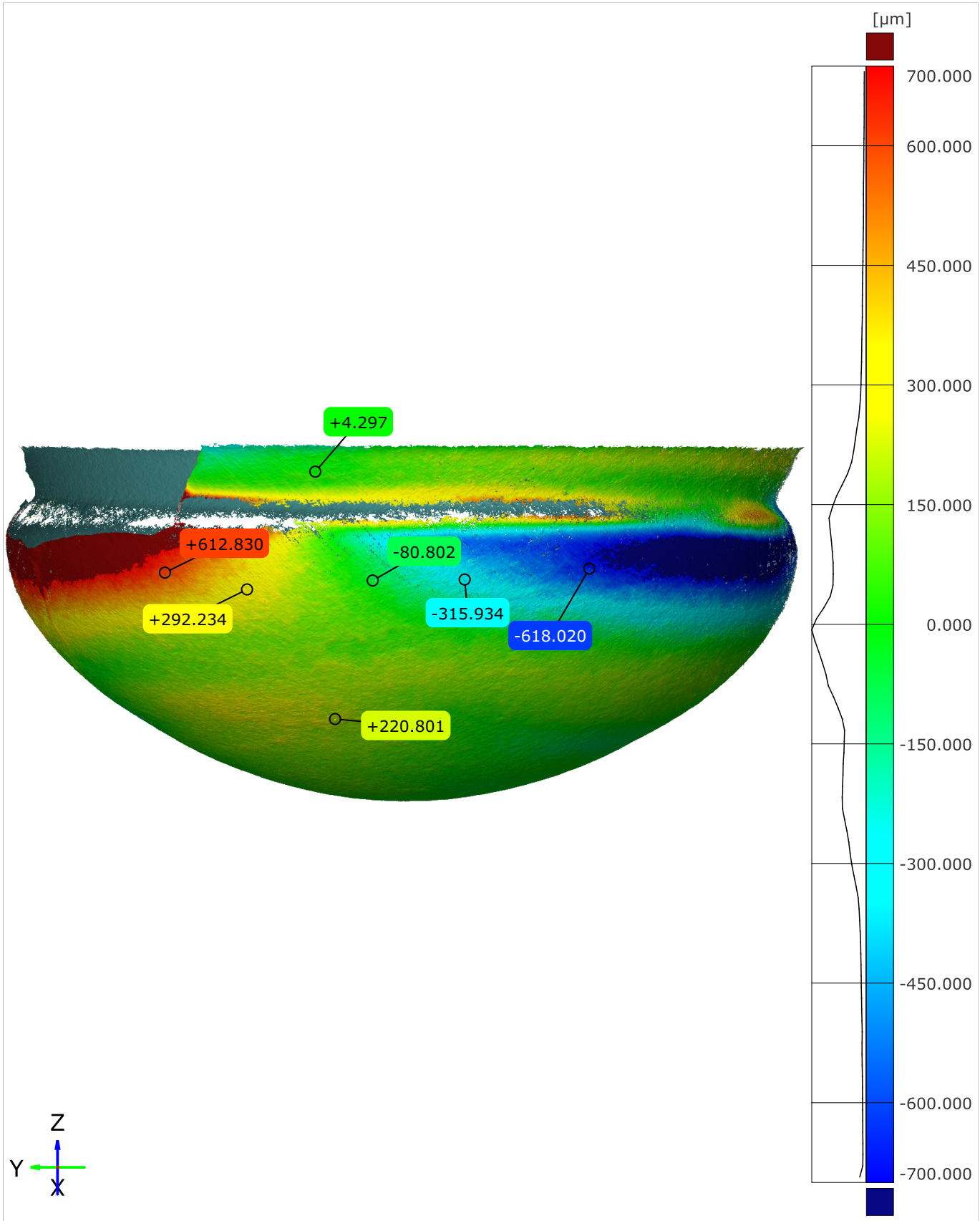
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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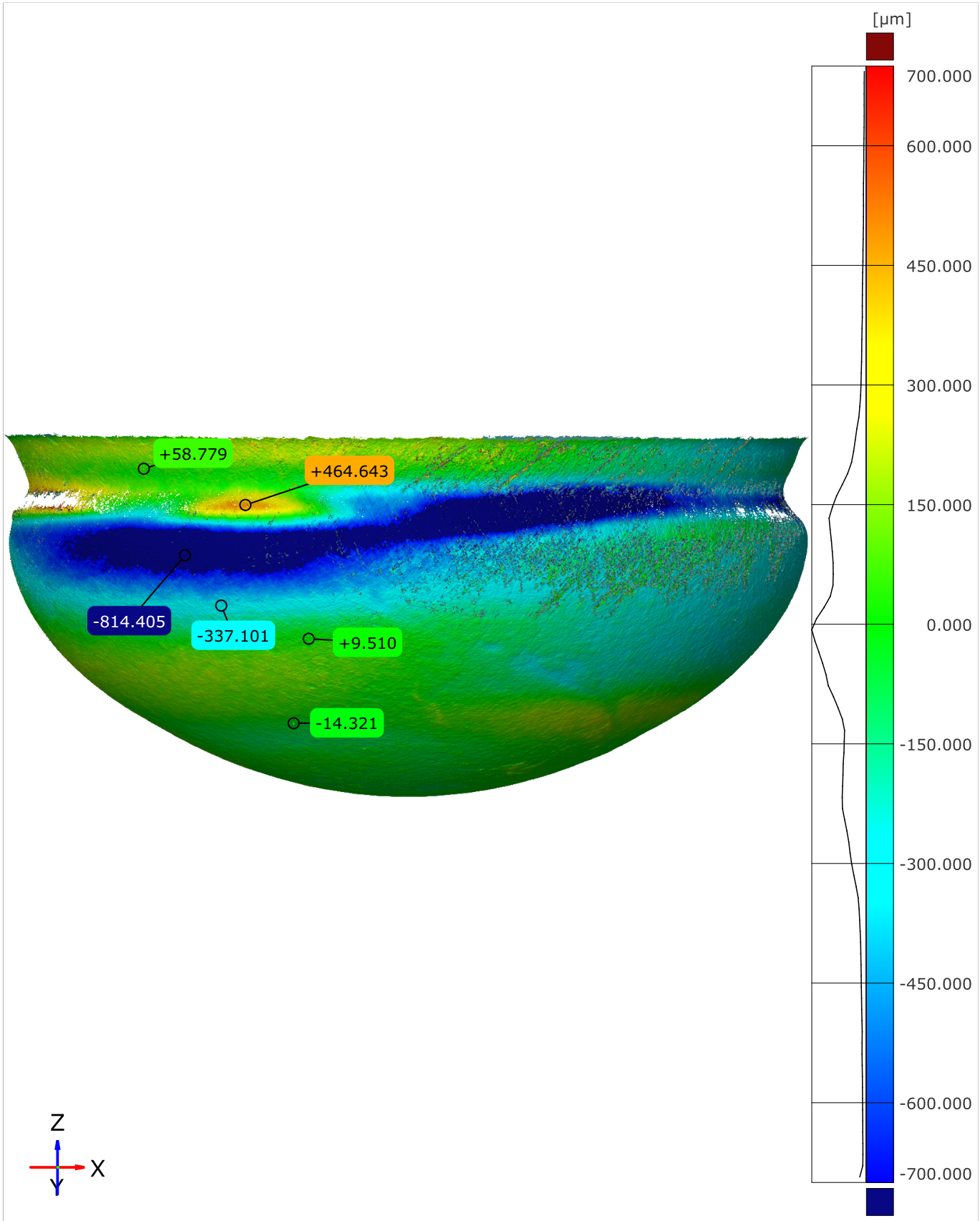
Surface Deviation Heatmap - Side 4



Original alignment Length unit: µm

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Surface Deviation ECDF

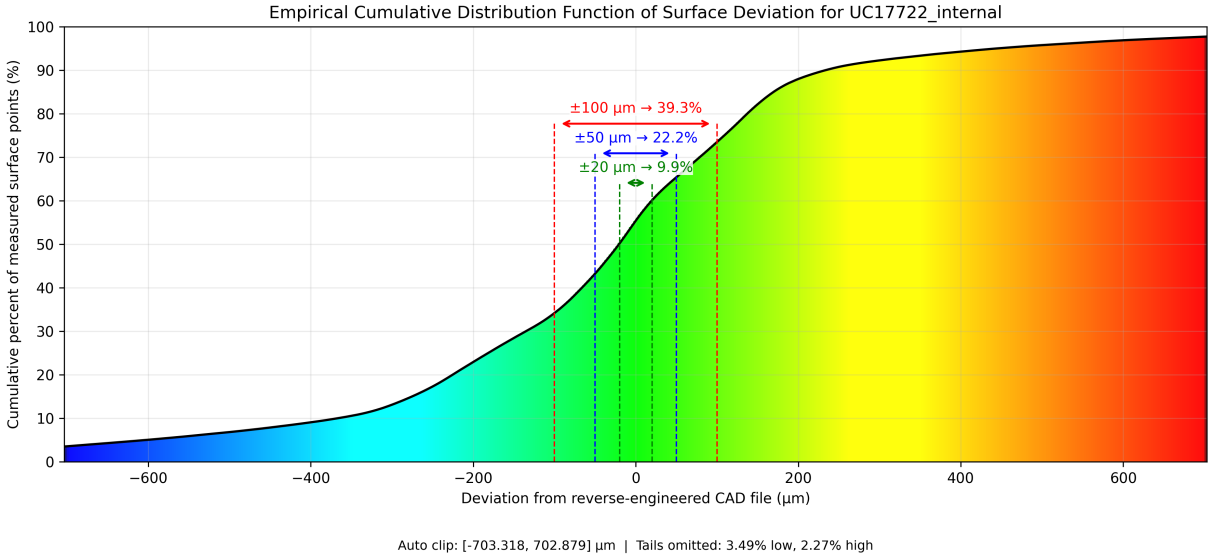

Figure 3.6: Surface Deviation ECDF (Internal)

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3.2 UC41108

3.2.1 Artifact Information



Accession Number	LDUCE-UC41108
Administration/Location	Petrie Museum of Egyptian Archaeology
Description	Black basalt bowl. Distinct drill marks on interior base. Rim chipped but otherwise intact.
Publications	Petrie, William Matthew Flinders, Funeral Furniture of Egypt; Stone and Metal Vases, p. 18; pl XVI, No. 204.
Production Period	1st Dynasty
Material	basalt
Dimensions	height: 5.8 cms; length: 12.6 cms
Notes	Object Category: bowls

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3.2.2 External

Circularity

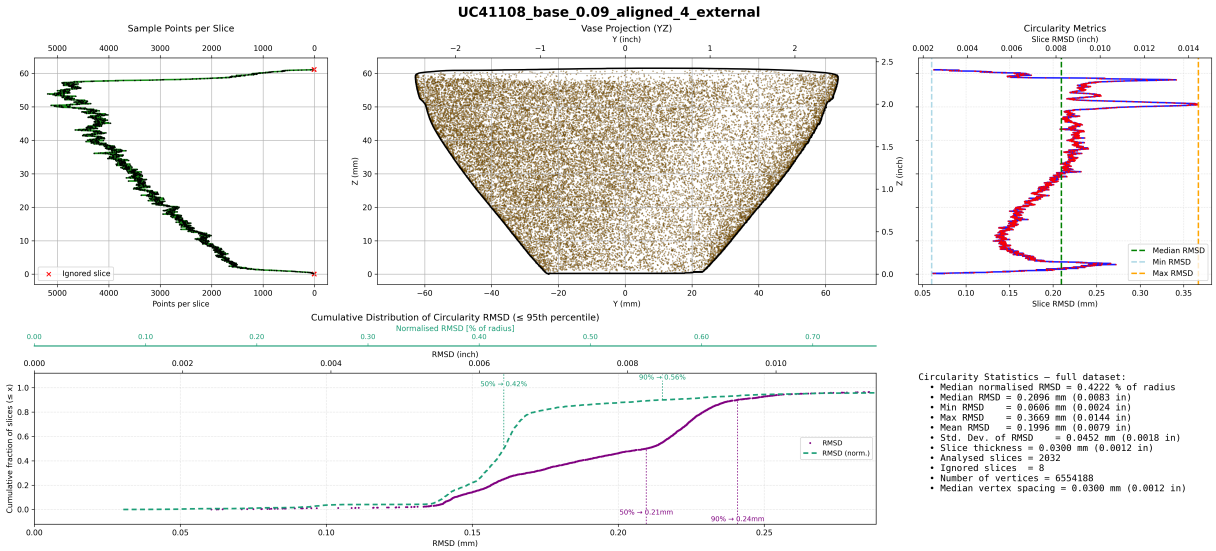

Figure 3.7: Circularity (External)

Concentricity

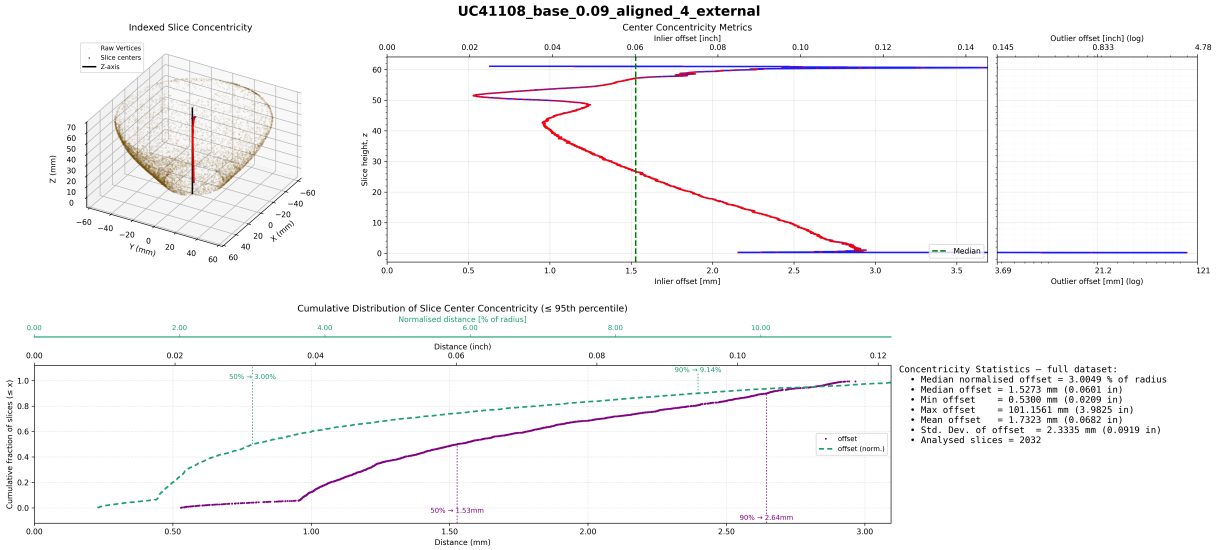

Figure 3.8: Concentricity (External)

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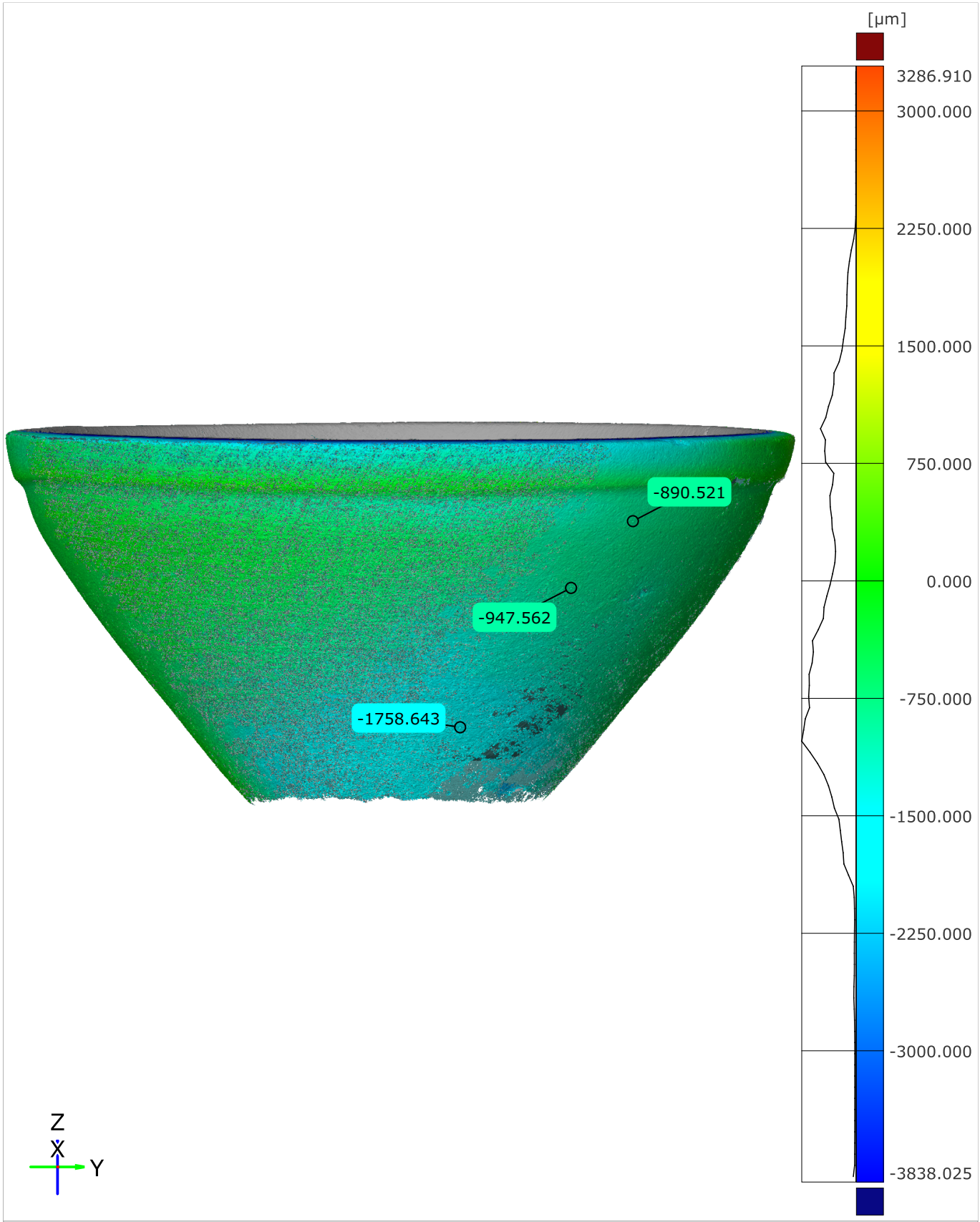
Surface Deviation Heatmap - Side 1



Original alignment

Length unit: µm

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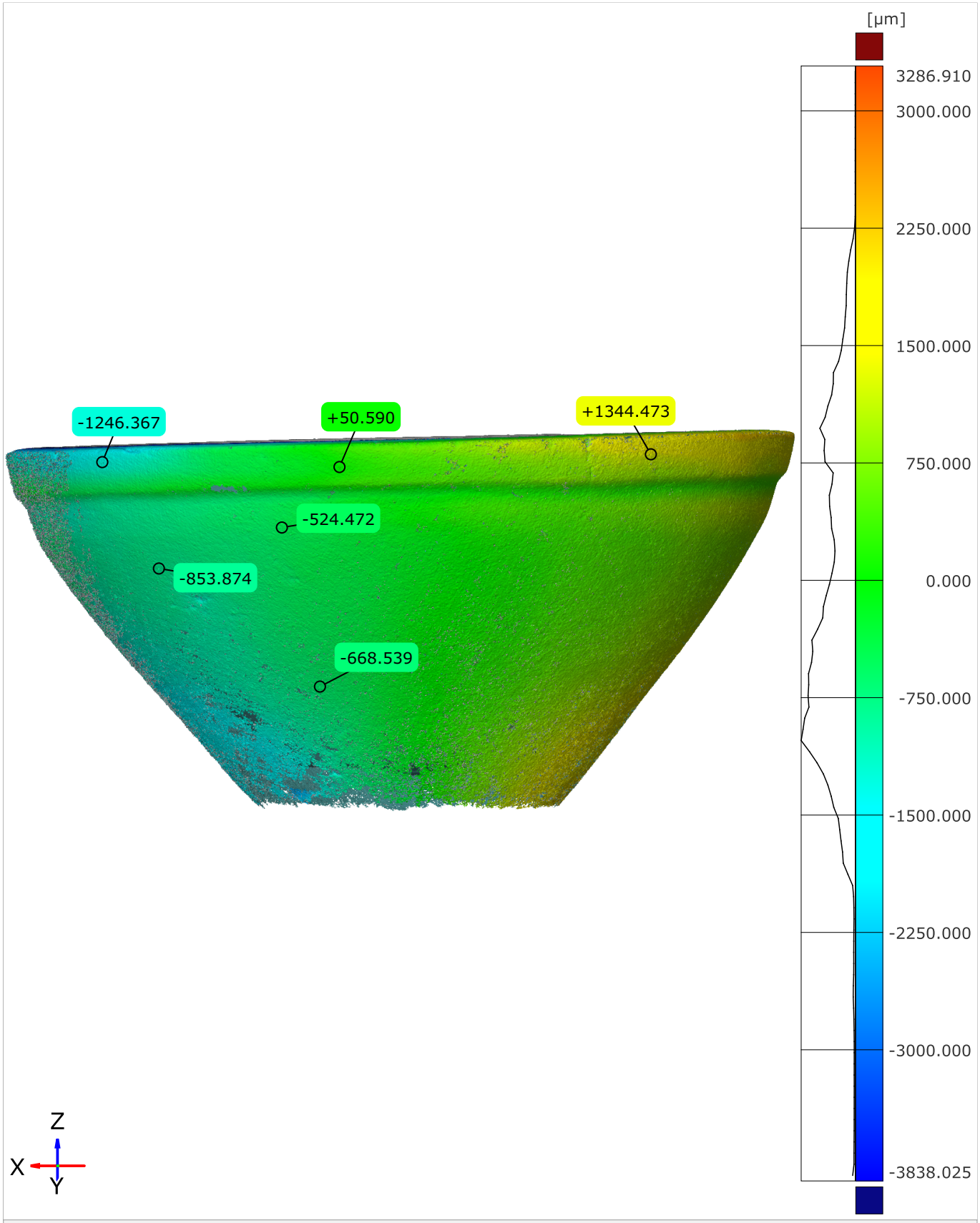
Surface Deviation Heatmap - Side 2



Original alignment Length unit: µm

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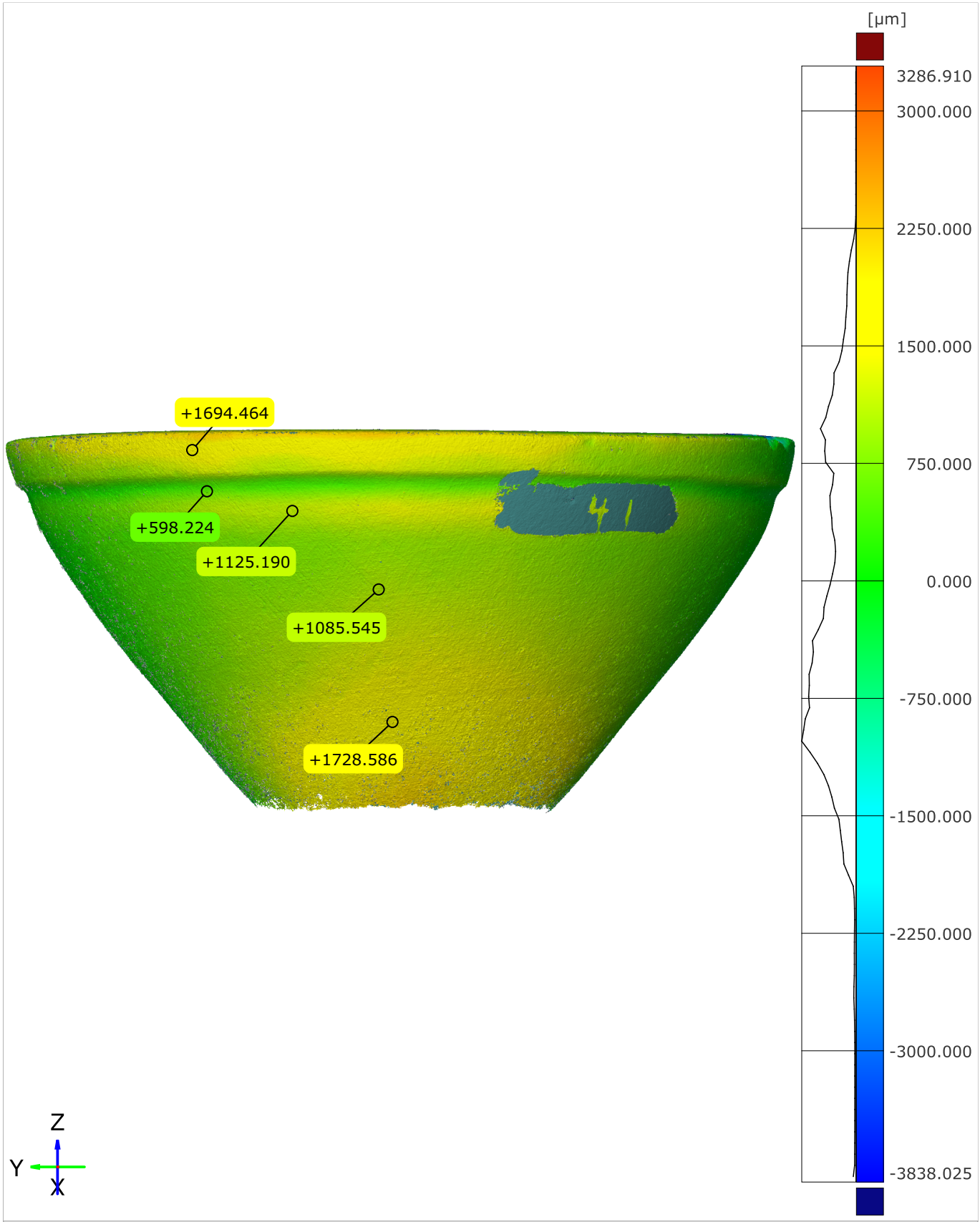
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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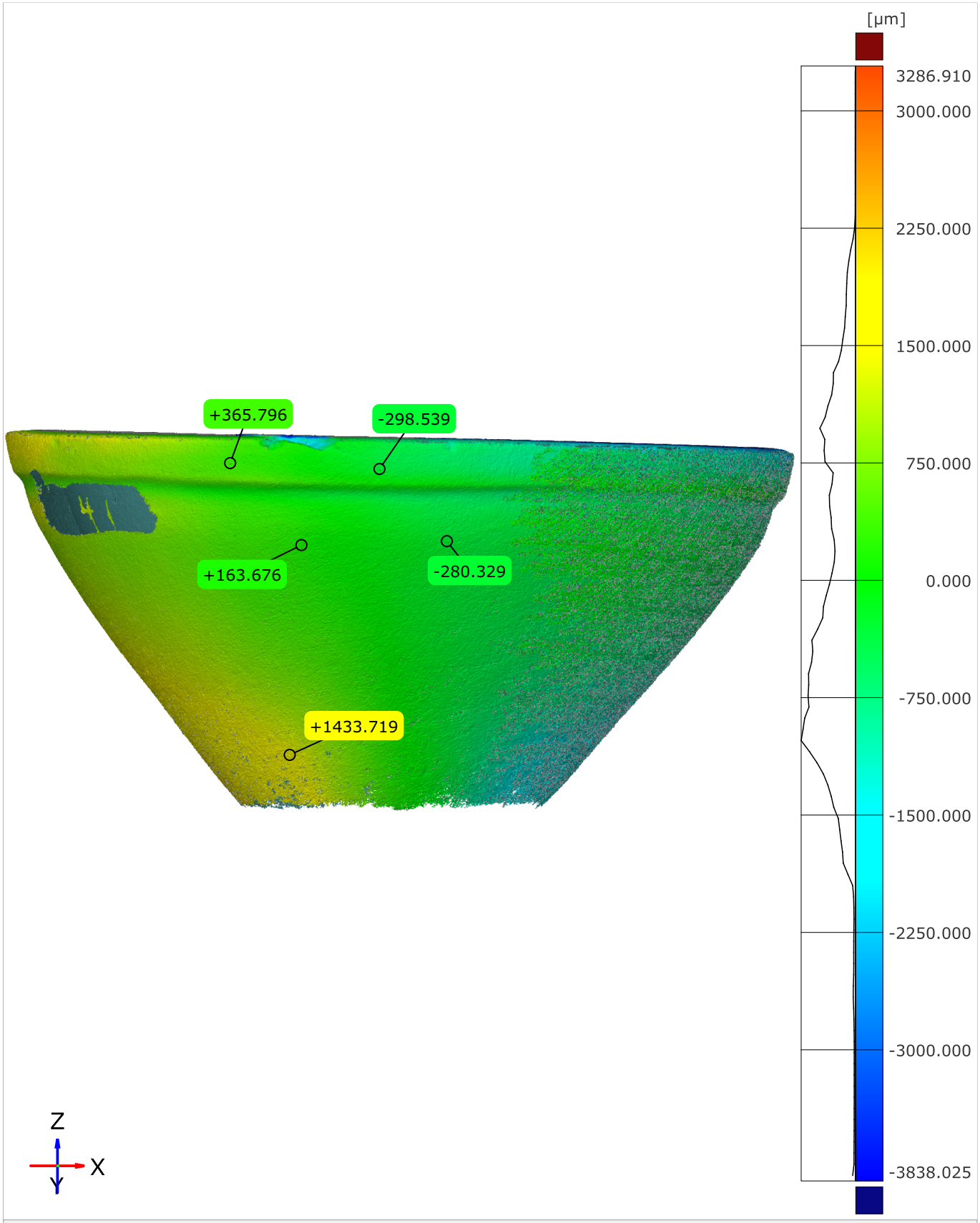
Surface Deviation Heatmap - Side 4



Original alignment

Length unit: µm

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Surface Deviation ECDF

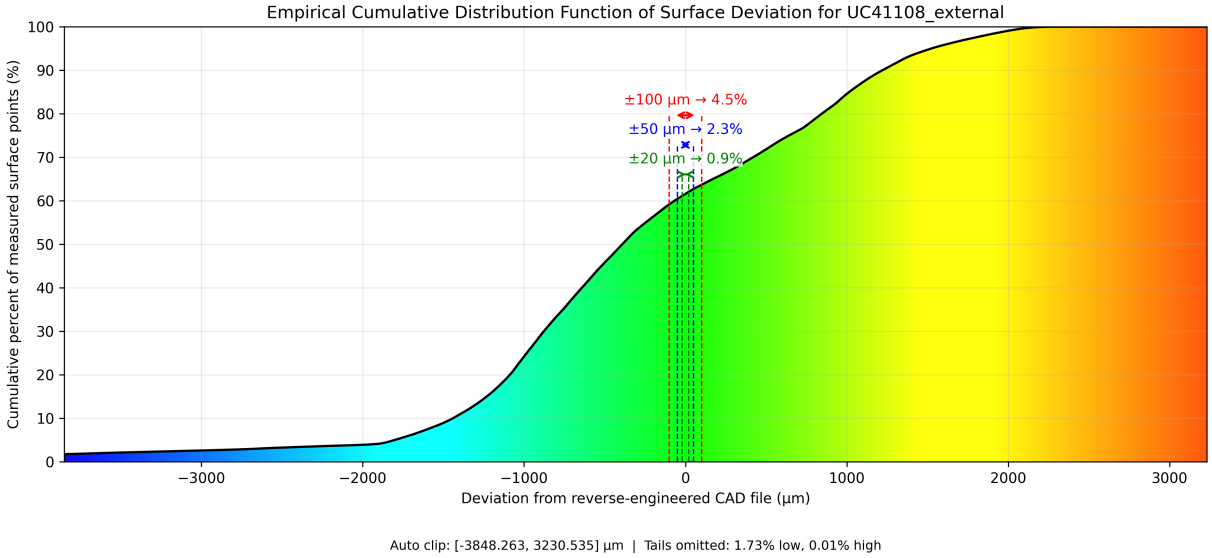

Figure 3.9: Surface Deviation ECDF (External)

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3.2.3 Internal

Circularity

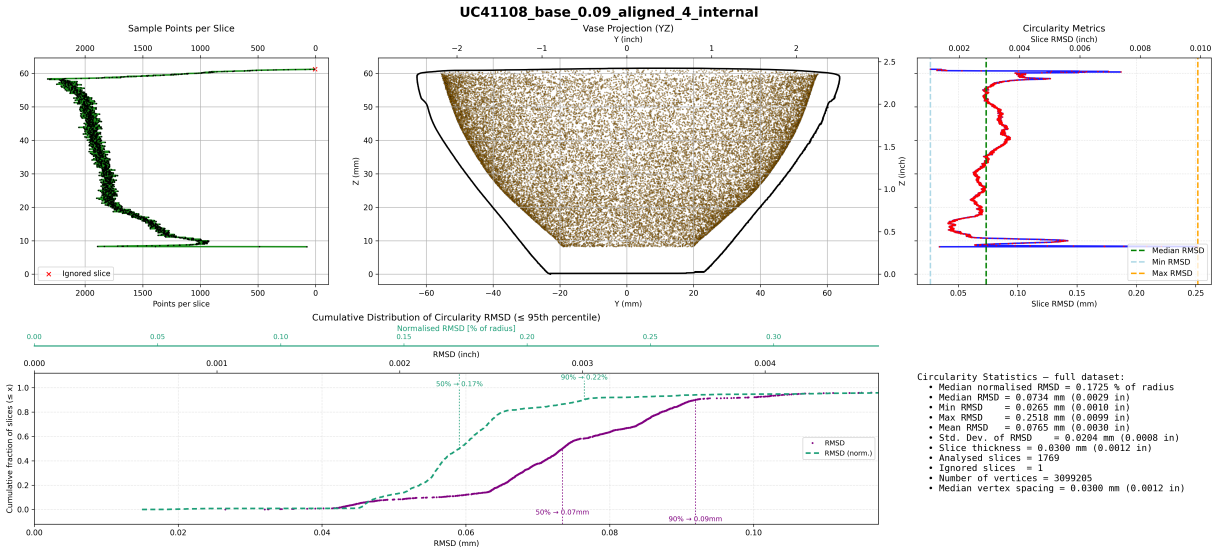

Figure 3.10: Circularity (Internal)

Concentricity

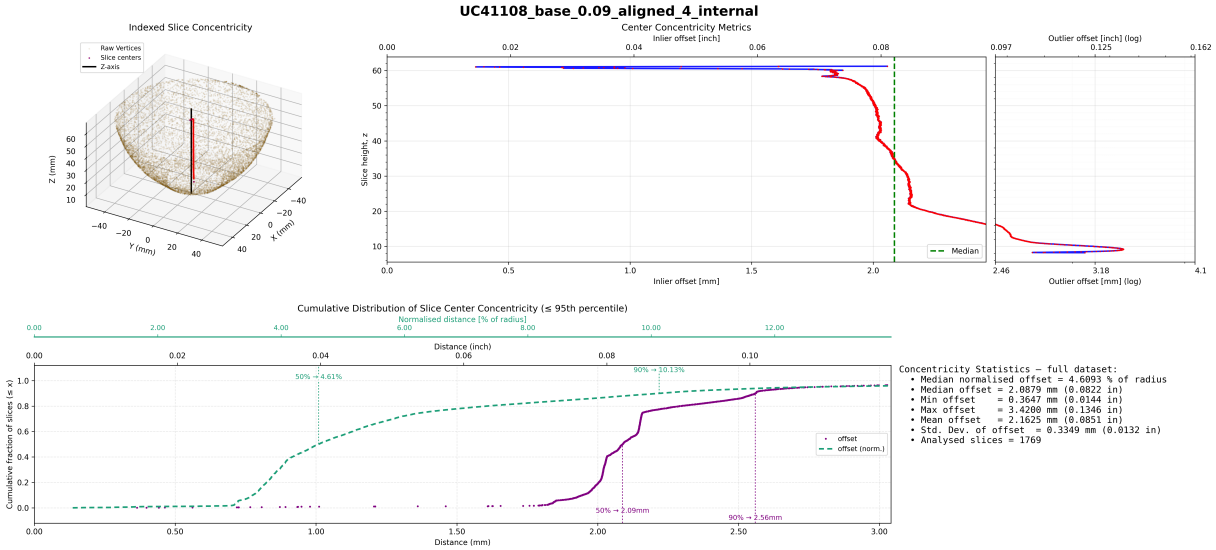

Figure 3.11: Concentricity (Internal)

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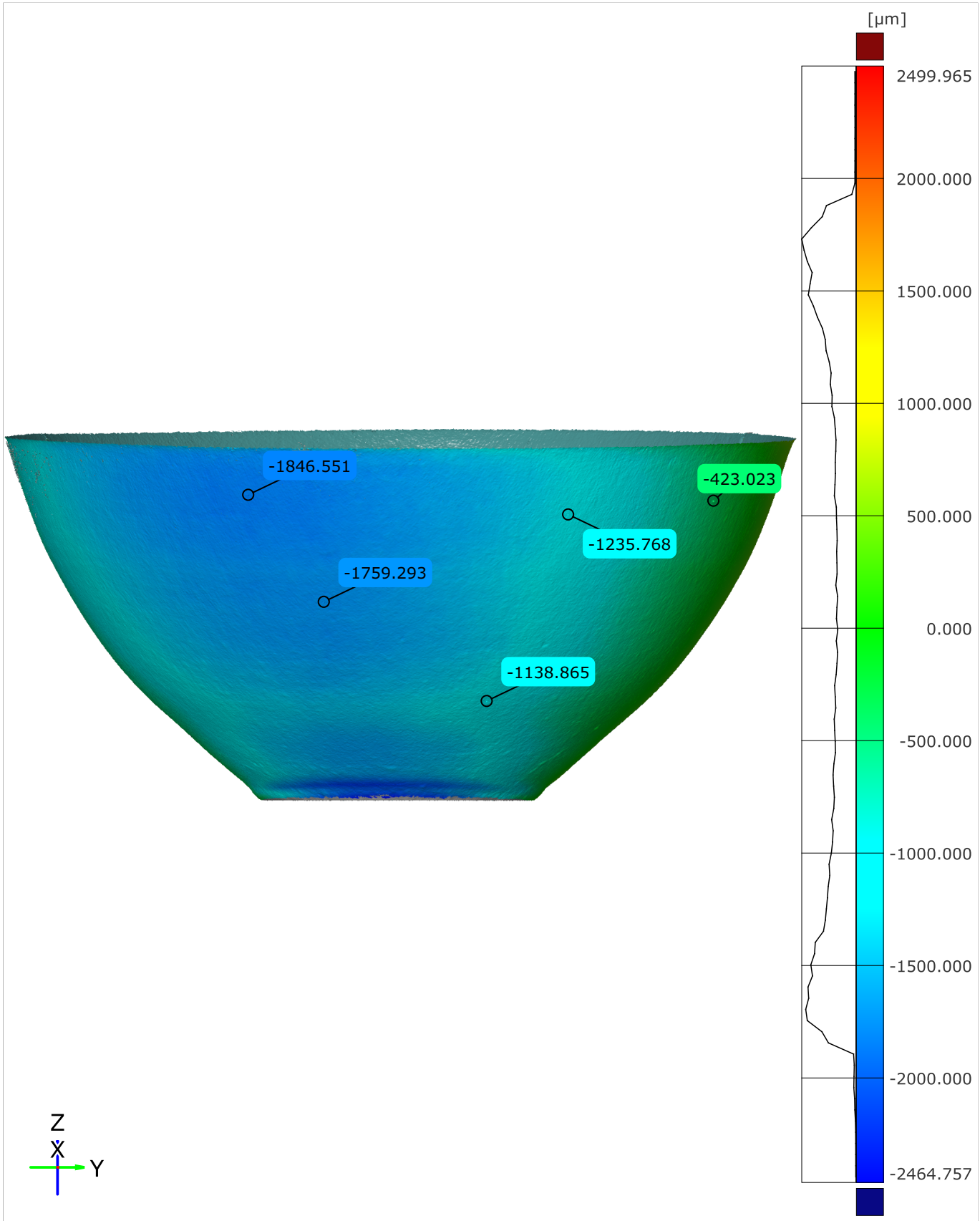
Surface Deviation Heatmap - Side 1



Original alignment Length unit: µm

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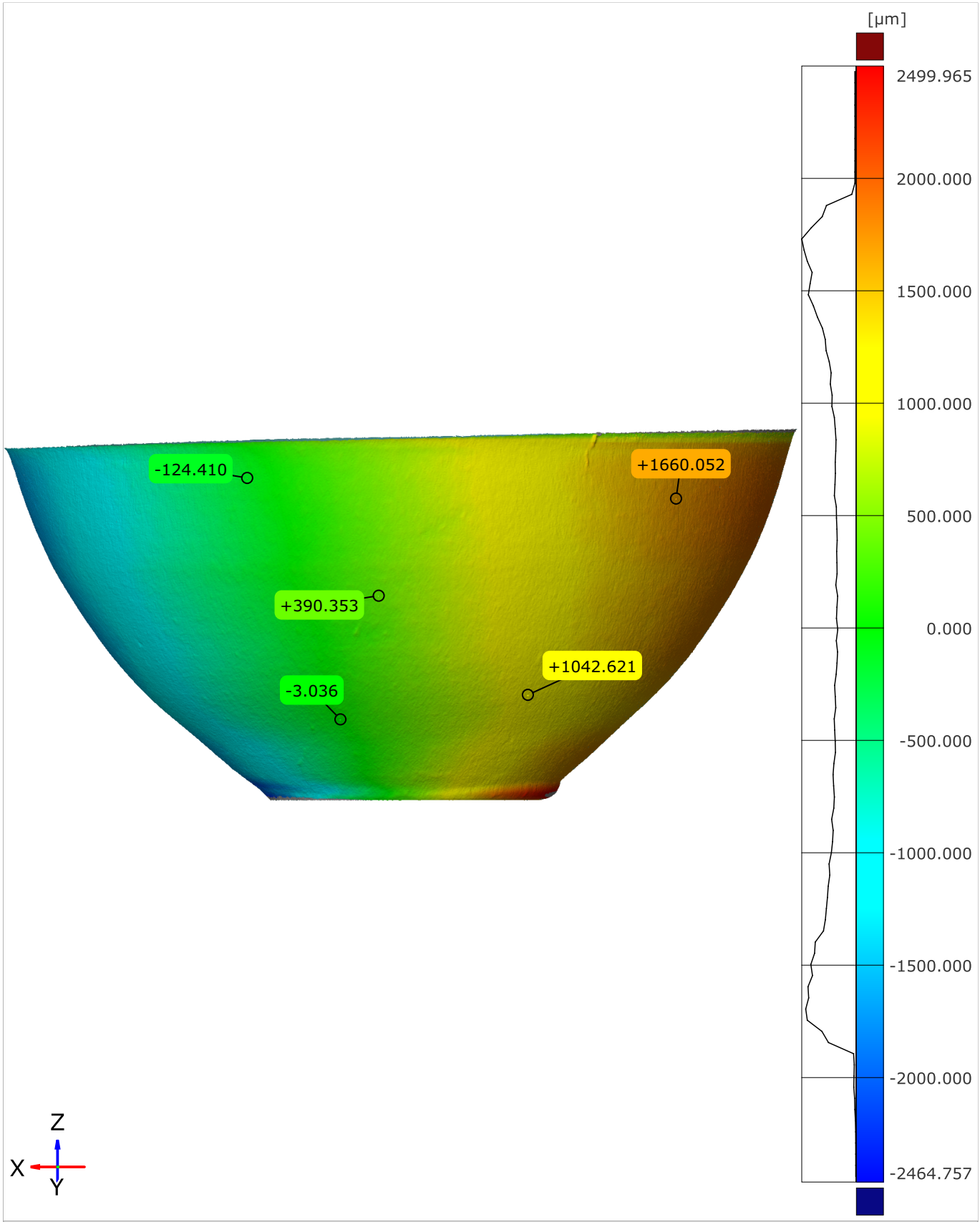
Surface Deviation Heatmap - Side 2



Original alignment Length unit: µm

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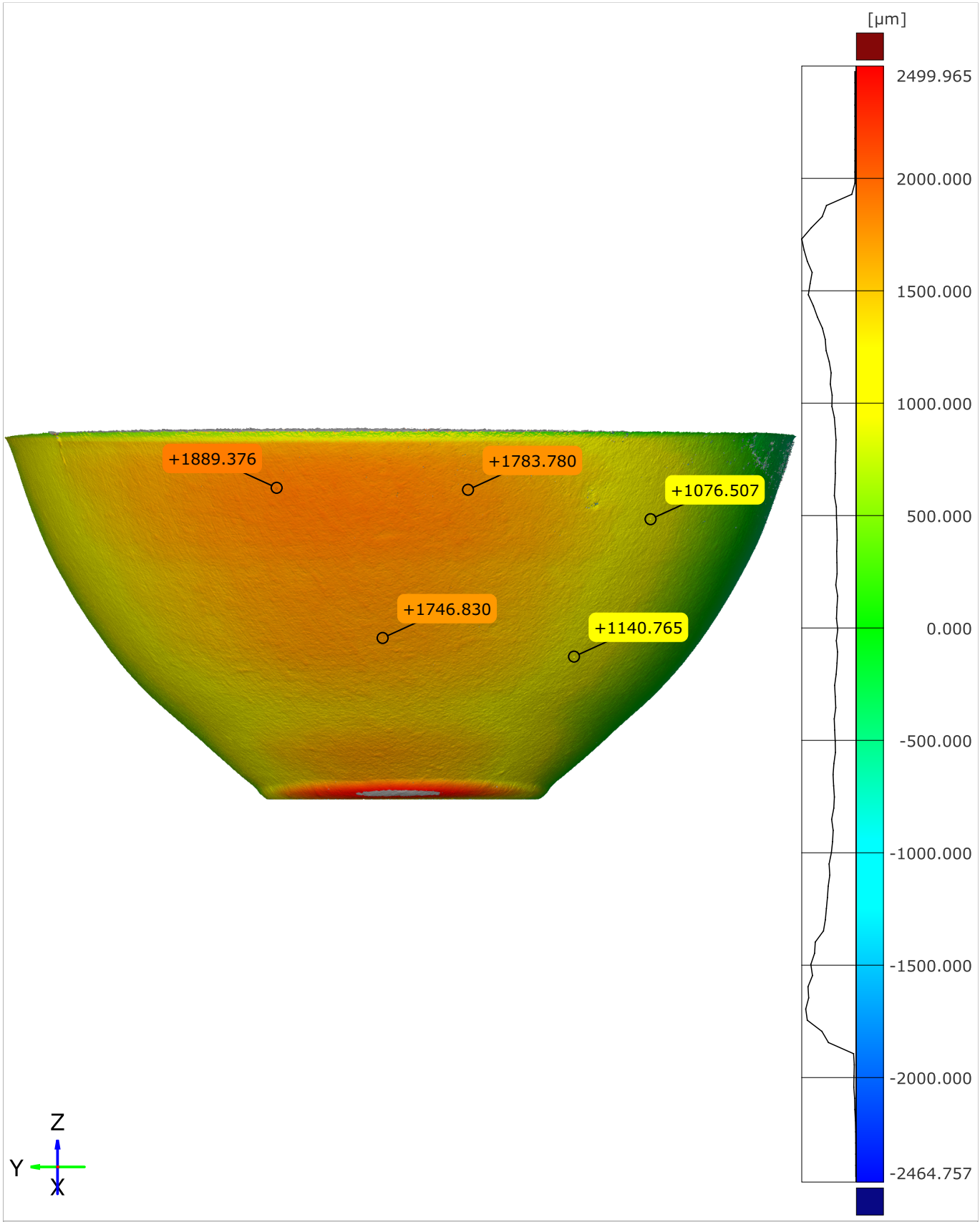
Surface Deviation Heatmap - Side 3



Original alignment

Length unit: µm

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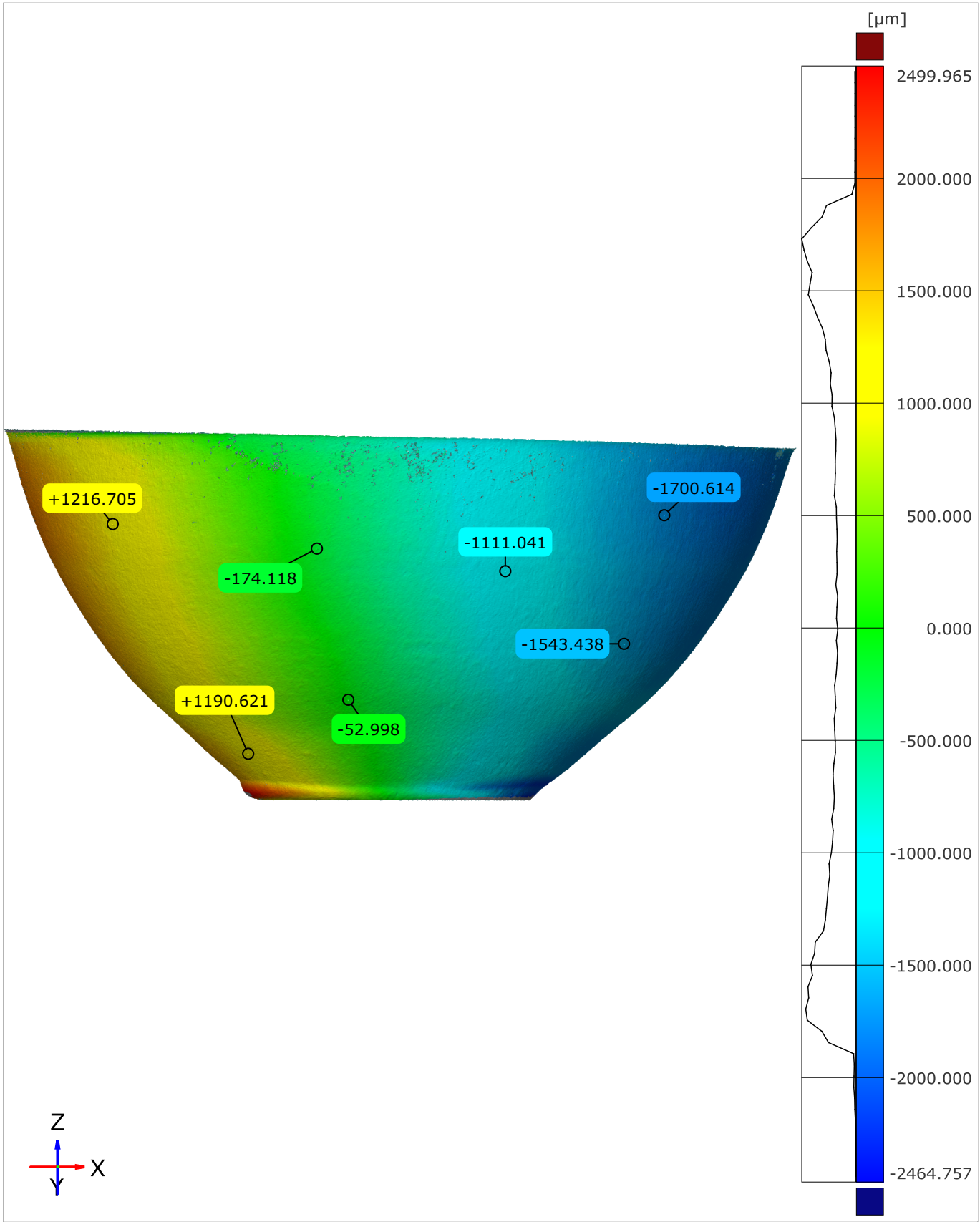
Surface Deviation Heatmap - Side 4



Original alignment — Length unit: µm

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Surface Deviation ECDF

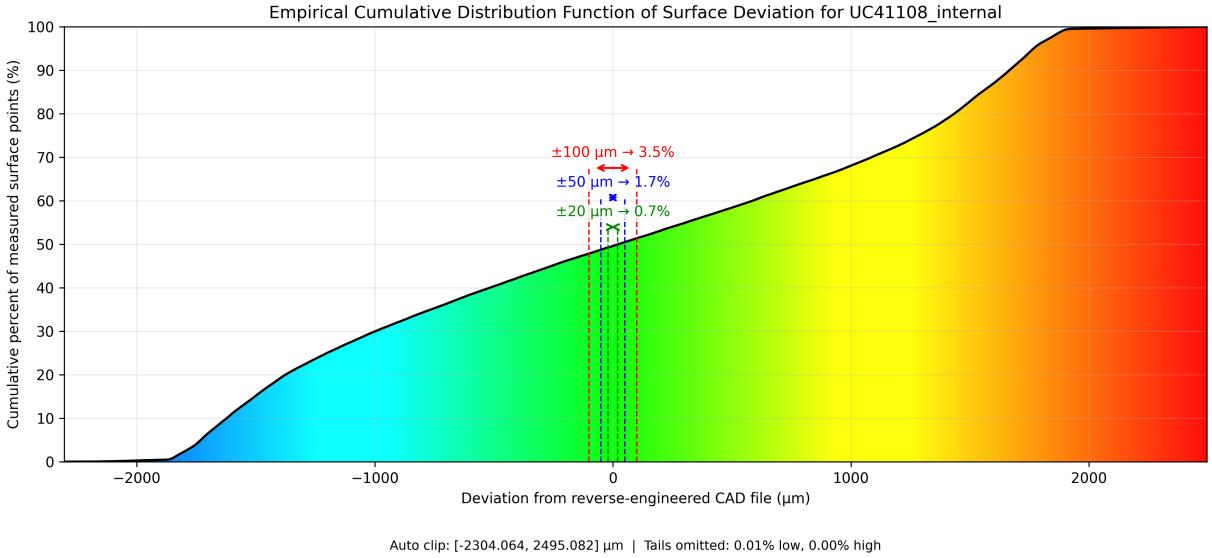

Figure 3.12: Surface Deviation ECDF (Internal)

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