1-Project Description

Project Name	Virtual Amarna Project
Name of monument, survey area, or object	NA
Monument/Object Number	long_whorl
Monument/Object Description	spindle whorl
Survey Location	Amarna, Egypt
Survey Date(s)	12-Mar-2008
Survey Conditions	Indoors
Scanner Details	Konica Minolta VIVID 9i; mm; Serial No: 1001198
Company/Operator Name	Center for Advanced Spatial Technologies, Christopher Goodmaster
Control data collected?	No
Turntable used?	No
RGB data capture. IF Yes, provide details.	Yes. The VIVID 9i uses internal RGB capture. No additional lighting was used to illuminate the scan artifacts. All additional lighting/color adjustments on the objects was performed during post-processing if necessary.
Estimated Data Resolution	0.219
Total Number of Scans in Project	6
Description of final datasets for archive	Original scans, registered dataset, premesh dataset, mesh dataset, decimated mesh dataset, images
Planimetric map of scan coverage areas	No
Additional project notes	NA
Images from survey	long_whorl_01.jpg, long_whorl_02.jpg, long_whorl_03.jpg, , , ,

*** All Project Information is REQUIRED.**

2-Scan Metadata

*Scan Filename	Scan Transformation Matrix	Matrix Applied to Scans?	* Name of monument/object area	* Survey Date	Number of Points in Scan	Additional Scan Notes	* Scanner Technology	Data Resolution	Lense or FOV Details (Triangulation scans only)
long_whorl_01	long_whorl_mtrx_01	Yes	long_whorl	12-Mar-2008	48491	NA	Triangulation	0.220058	mid
long_whorl_02	long_whorl_mtrx_02	Yes	long_whorl	12-Mar-2008	49491	NA	Triangulation	0.220205	mid
long_whorl_03	long_whorl_mtrx_03	Yes	long_whorl	12-Mar-2008	48812	NA	Triangulation	0.220136	mid
long_whorl_04	long_whorl_mtrx_04	Yes	long_whorl	12-Mar-2008	47076	NA	Triangulation	0.219725	mid
long_whorl_05	long_whorl_mtrx_05	Yes	long_whorl	12-Mar-2008	38049	NA	Triangulation	0.214038	mid
long_whorl_06	long_whorl_mtrx_06	Yes	long_whorl	12-Mar-2008	42339	NA	Triangulation	0.218846	mid

Name of Registered Dataset	Global Registration Error in units	Total number of points in final registration
long_whorl_GR.txt	0.051	274224

*** All Registration Information is REQUIRED.**

Pre-Meshing Metadata

Name of Pre-Mesh Dataset	long_whorl_GRE.txt
Number of Points in File	215770
Overlap Reduction	Y
Smoothing	N
Subsampling	N
Color Editions	N
Point Deletion Summary	Overlap reduction was computed in Polyworks software. Following overlap reduction, floating data points were also deleted. Data remnants from overlap reduction were also deleted as necessary.

Polygonal Mesh Metadata:

Name of Mesh Dataset	long_whorl_hi.obj
Holes Filled	Y
Smoothing	Y
Color Editions	Y
Healing/despiking	Y
Total Triangle Count (post editing, predecimation)	336644
RGB Color Included	Y
Data Reduction	N
Coordinate System Adjustment	N
CS Adjustment Matrix	NA
Additional processing notes	Data were color corrected, meshed, and edited in Rapidform XOR.

Decimated Polygonal Mesh Metadata:

Name of Decimated Mesh Dataset	long_whorl_lo.obj
Total Original Triangle Count	336644
Decimated Triangle Count	25000
RGB Color Preserved from original dataset	Y

Image Metadata

Identifier (Image File Name)	Title / Caption	Description of Image	Creator	Date	Rights	Keywords	Location
long_whorl_01.jpg	NA	Image of Amarna Object long_whorl, spindle whorl (longer s	Center for Advanced Spatial Technologies, Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
long_whorl_02.jpg	NA	Image of Amarna Object long_whorl, spindle whorl (longer s	Center for Advanced Spatial Technologies, Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt
long_whorl_03.jpg	NA	Image of Amarna Object long_whorl, spindle whorl (longer s	Center for Advanced Spatial Technologies, Christopher Goodmaster	12-Mar-2008	Creative Commons 3.0	Amarna, Akhenaten, 3D model	Amarna, Egypt