## GSA DATA REPOSITORY 2017052

Pyritized in situ trilobite eggs from the Ordovician of New York (Lorraine Group): Implications for trilobite reproductive biology

Hegna et al.

Calibration report from CT scan, giving parameters of calibration and final voxel size. Scan was made using a North Star Imaging micro-CT scanner housed at Vanderbilt University, with 130 KV (300mA) x-ray source, and $8 " \times 10 "$ Cesium Scintillator detector array.

| Computation date: | 9/12/2016 2:37:06 PM |
| :---: | :---: |
| Tracking:: | 3 points used, over 60 views |
| Calibration tool: | Spacing [5]mm ([0.197] inches) |
| Detector pixel pitch: | $0.127 \times 0.127 \mathrm{~mm}$ ( $0.005 \times 0.005$ inches) |
| Image modification: bottom=20] | H-flip \| Rotate(90 degree) | Crop \#pixels left=20 top=20 right=20 |
| Xray-source / Detector distance:. | . 545.497 mm (21.476 inches) |
| Rotation axis / Detector distance: | . 492.591 mm (19.393 inches) |
| Rotation axis / Xray-source distan | . 52.906 mm (2.083 inches) |
| Magnification: | . 10.31 |
| Optimum voxel size: | 12.3 microns (0.0004849 inches) |
| Geometric unsharpness: | - $\times 9.3$ |
| 5 micron focal spot will be 46.55 micron wide ( 0.37 pixels) |  |
| Rotation: | Found Counter-Clockwise (CCW) rotation direction |
| Rotation axis: | -0.000937941882817673-0.999999560132416 0 |
| Rotation axis angle: | . 179.946 degree |
| Image center: | . $123.037,99.474$ ) mm / (4.844, 3.916$)$ inches |
| Calibration images folder: | Calibration |
| Starting image used:............. | .calib*.tif; 60 images, 6 degree step |

SI XXX - Calibration report from CT scan, giving scanning parameters, as well as details for the calibration and final voxel size. Scan was made using a North Star Imaging micro-CT scanner housed at Vanderbilt University, with 130 KV (300mA) x-ray source, and 8" x 10" Cesium Scintillator detector array.

## Scan parameters:



## Calibration report:

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9/12/2016 2:37:06 PM
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Rotation axis angle:................................... 179.946 degree
Image center: $\qquad$ (123.037, 99.474) mm / (4.844, 3.916) inches

