# University of Texas High-Resolution X-ray CT Facility Archive

# Lyson:

# Diapsid\_skull7607: Scan of the skull of a Permian diapsid (BPI 7607; Permian; Karoo) for Tyler Lyson of the Denver Museum of Nature and Science. Specimen scanned by Matthew Colbert on 31 January 2018.

# 16bitTIFF: Scan parameters: NSI scanner. Fein Focus High Power source, 130 kV, 0.26 mA, aluminum filter, Perkin Elmer detector, 0.25 pF gain, 1 fps, 1x1 binning, no flip, source to object 144.0 mm, source to detector 1317.082 mm, continuous CT scan, 2 frames averaged, 0 skip frames, 3000 projections, 6 gain calibrations, 0.762 mm calibration phantom, data range [-20.0, 600.0] (grayscale adjusted from NSI defaults), beam-hardening correction = 0.2. Post-reconstruction ring correction applied by Jessie Maisano using parameters oversample = 2, radial bin width = 21, sectors = 32, minimum arc length = 8, angular bin width = 9, angular screening factor = 4. Voxel size = 11.9 μm. Total slices = 1103.

# 8bitJPG: 8bit jpg version of the above images.

# Specimen Photo: jpg photos of the specimen.