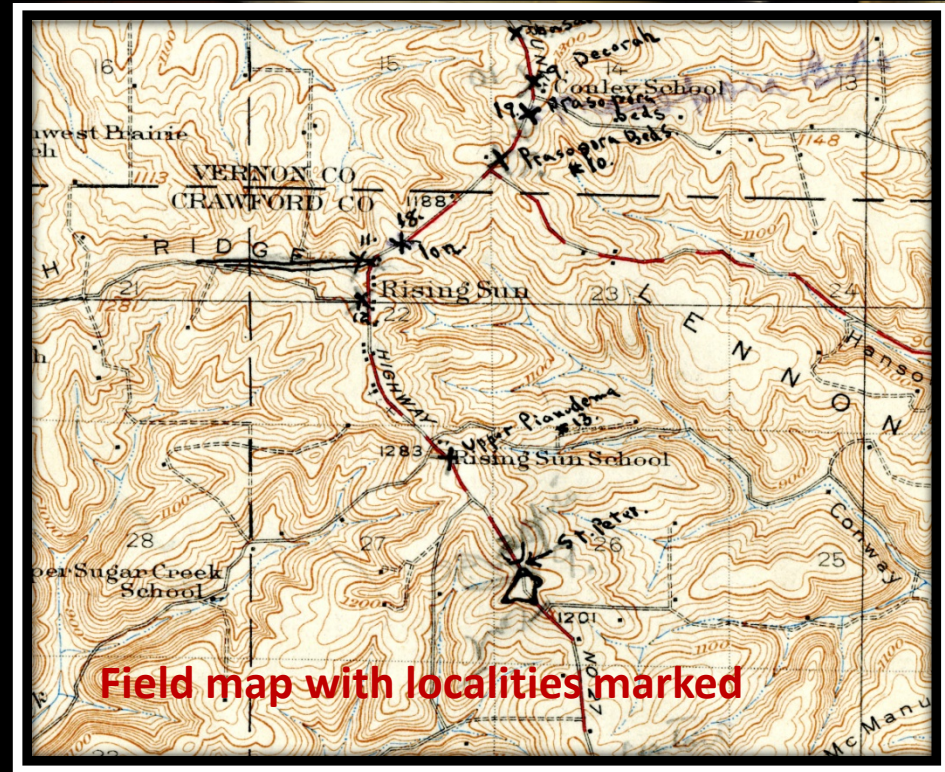


Fieldnote Binders



Scanner



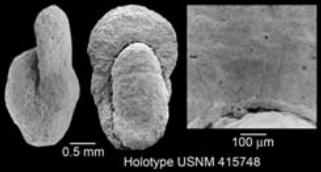




Field map with localities marked

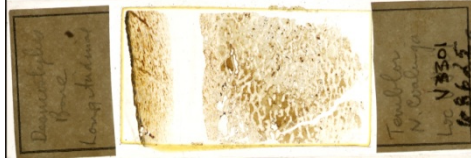
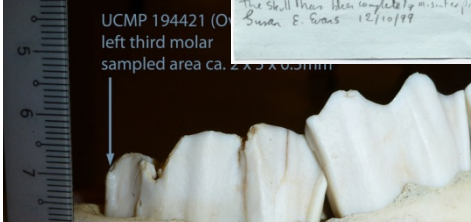
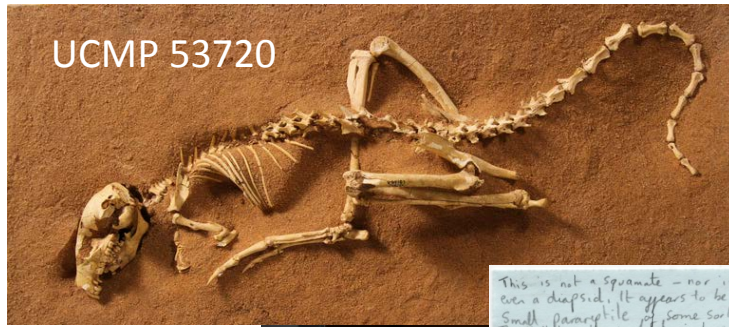
Fossil Specimen Imaging at NMNH

Kathy Hollis, Collection Manager
hollisk@si.edu

Departmental Priorities on record in the three-year *NMNH Digitization Plan, Paleobiology Digitization Goals*

NMNH Paleo Image Standards put in place in 2011

Collection/Imaging Project	Starting number of images	Images added by end of 2015	Total images by end of 2015	Percent of collection imaged by 2015	<i>As of 2013 all digitization projects will require a museum-approved Digital Asset Management Plan</i>
Foraminifera Types 	1,000	5,700	6,700 of 17,000	39%	<ul style="list-style-type: none"> High-quality images, multiple views Requires SEM and focus-stacked photo microscopy 30-90 minutes per specimen Multiple specimens per imaging task
Trilobite Types 	1,800	1,000	2,800 of 20,000	15%	<ul style="list-style-type: none"> High-quality images, multiple views Requires focus-stacked photo microscopy and copy stand 20 minutes per specimen Multiple specimens per imaging task
Paleobotany Types 	4	3,000	3,004 of 21,000	14%	<ul style="list-style-type: none"> Variable quality images already exist saved on a shared network drive Files need to be standardized and migrated Requires creating new Emu specimen records before images are migrated
Dinosaurs 	895	417	1,312 of 1,312	100%	<ul style="list-style-type: none"> Variable quality "point and shoot" with tripod or copy stand Mostly for documentation purposes 5-20 minutes per specimen Fully process one day's worth of specimens
High Value Collection Inventory 	382	105	485 of 485	100%	<ul style="list-style-type: none"> Variable quality "point and shoot" with tripod or copy stand Mostly for documentation purposes 5-20 minutes per specimen Fully process one day's worth of specimens



Back to: [UCMP Collection Search](#)
 SEARCH FOR: [Specimens](#) • [Specimens \(advanced\)](#) • [Localities](#) • [Photos](#)
 BROWSE PHOTOS: [Field Sites](#) • [Modern Cleared Leaves](#) • [Vertebrate Fossils](#) • [Plant Fossils](#) • [Microorganism Fossils](#)

The collections catalog currently contains 9,789 images.

Search for UCMP images using this form. If you choose more than one option, the search will look for records that meet both conditions (e.g. Country AND Taxon).

Type of Photo

Genus species
Examples: Ceanothus fendleri, Procarnelius

Specimen Num.
Examples: U_170392_BCL_P_ACL211

Locality Name
Example: Black Hawk Ranch

Photographer

Picture's ID

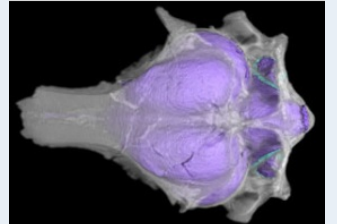


Day to day
collections management
-ca. 10,000 in CalPhotos
database linked to specimen db



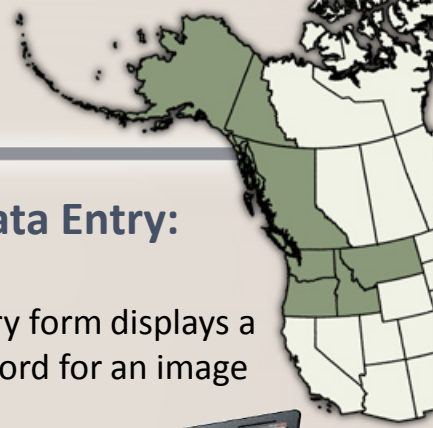
NSF-BRC Rehousing & Digitization of former USGS collection at UCMP
-est. 20,000 images

2D and 3D data in external unlinked databases & sites



Intended uses: research, documentation, management, course support, outreach

PNWHerbaria.org - Overview of imaging & databasing workflow

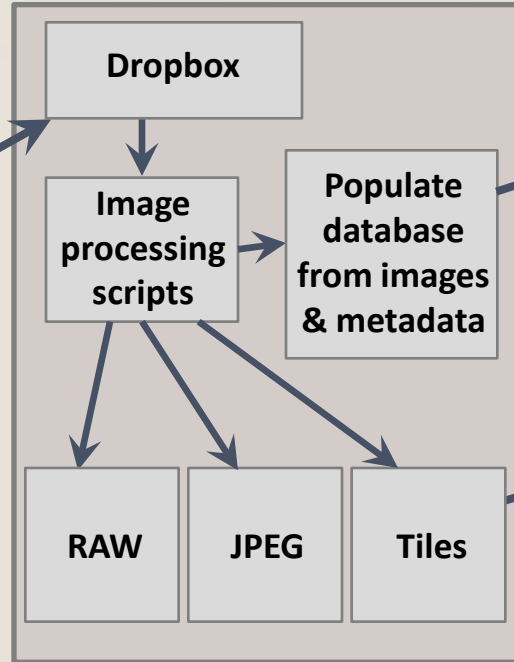


Imaging Workstation:

Transfer RAW images and metadata on a portable hard drive



Portal Server:

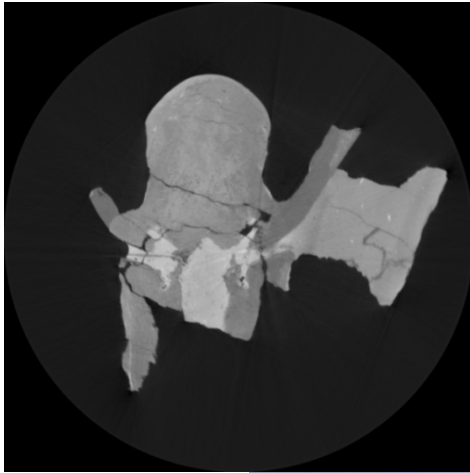


Data Entry:

Data entry form displays a blank record for an image

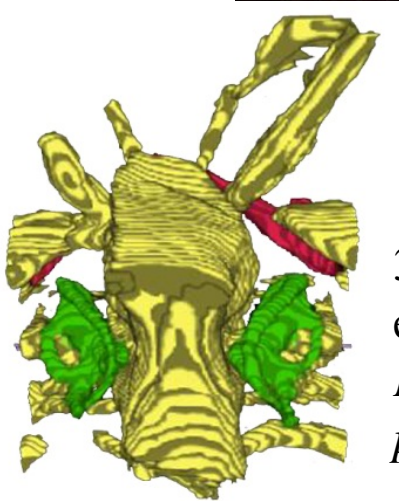


Old and new technology used by the Perot



CT slice of brain case.

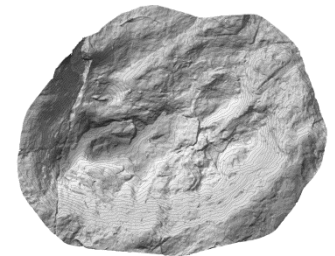
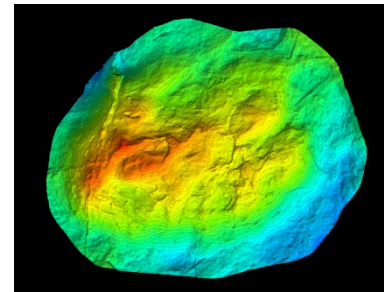
Field photograph from slide



3D rendering of endocranial cavity of *Pachyrhinosaurus perotorum*.



3D scanning of *Pachyrhinosaurus perotorum*.



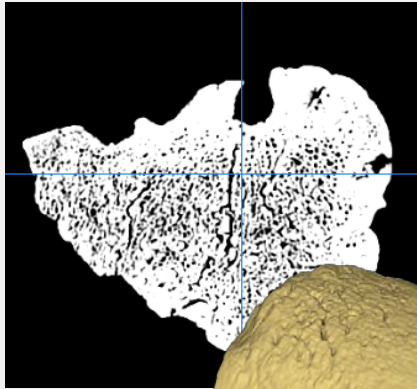
3D surface scan of Ornithopod Track.

3D imagery and Open-Access data models

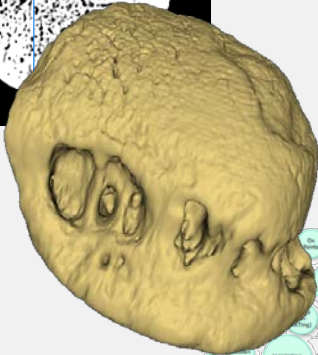
Chris Widga, Illinois State Museum

Collections + Technology + Invested Communities = *Value-added data*

Pathology database



Mastodon
Astragalus. CT
slice and 3D
surface model.



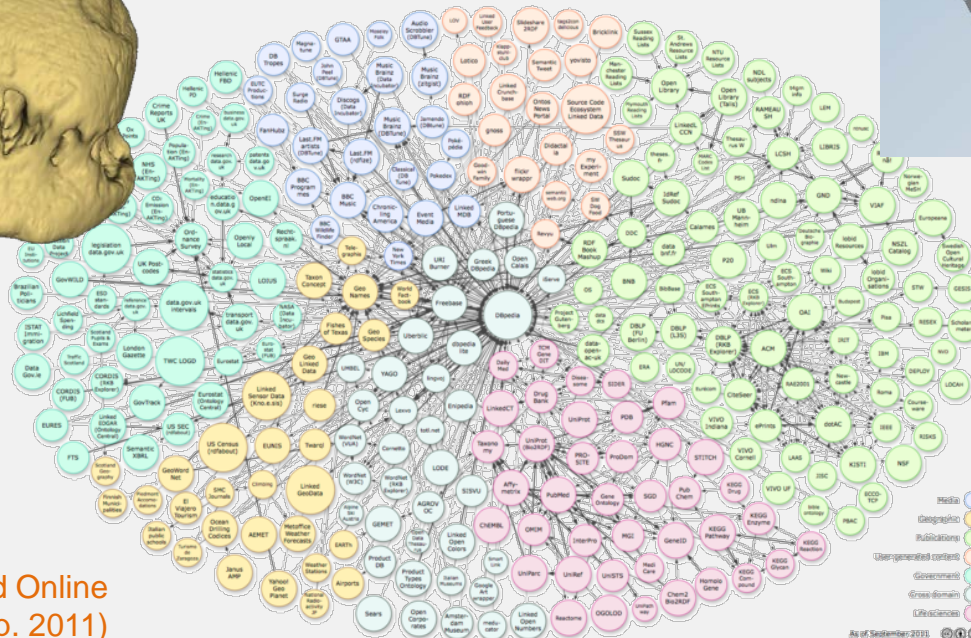
Inter-disciplinary Relevance



Open Data Model



Reclining Naid, The
Metropolitan Museum of Art.
123DCatch scene.



--Objects: Mammalia
--Workflow: TBD
--N > 7000,
Paleontological and
Zooarchaeological
specimens

Linked Online
Data (Sep. 2011)

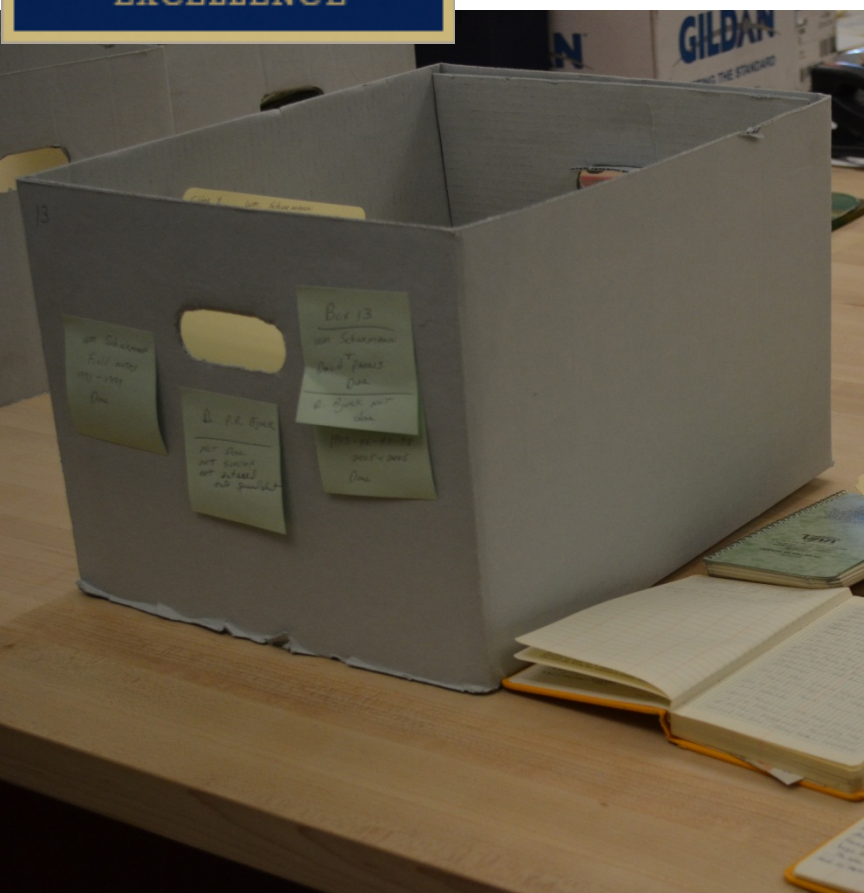
South Dakota School of Mines & Technology Museum of Geology

Sally Shelton
Sally.Shelton@sdsmt.edu



FIELD NUMBERS FOR PHILIP R. BJORK
Summer 1969

Date	Sec.	FRB	Description
7/1	SE1SW1/4 28 T43N R14W	FRB 1.	Gastroid jaw and "Leptaeria" molar, 10ft. above the Prot. ss. Greenish silty sand micaceous.
		FRB 2.	Rhino lower molar fragment, 8 ft. above channel. Greenish silty sand, micaceous.
		FRB 3.	Gastroid associated skull, jaws, and post cranial debris rubble down the slope. Greenish silty sand, micaceous.
7/2	SE1SW1/4 28 T43N R14W	FRB 4.	Carnivore jaw, left 15 ft. above channels in nodular fine sandstone and clay.
		FRB 5.	Miscellaneous float material from just above channels.
		FRB 6.	Partial skeleton 8 ft. above channel sands.
		FRB 7.	Gastroid lower jaw with 2 miscellaneous teeth, 8 ft. above channel but on rubble slope
		FRB 8.	Miscellaneous micromammal, plus frog, isolated mouse tooth.
		FRB 9.	Symphysal region of lower jaw.
7/3	SE1SW1/4 28 T45N R44W	FRB 10.	Cast of Meschippus lower jaw with skull not in occlusion. Skull may be off a different taxon. 4 ft. above channel ss.
7/7	not determined	FRB 11.	Leptauchenia palate. Just below prominent ash which is still in the Poleslide according to J.C. Harkson. Savan's ash
7/8	NW1SE1/4 11 T41N R42W	FRB 12.	Fragmentary creodont skull and jaws, 30-40 ft. below layered ash zone of Poleslide.
		FRB 13.	Leptauchenia skull & jaws, 30-40 ft. below layered ash zone of Poleslide.
		FRB 14.	Rhino associated upper & lower dentition, 30-40 ft. below layered ash zone of Poleslide.
		FRB 15.	Rhino associated upper & lower dentition, 30-40 ft. below layered ash zone of Poleslide.
		FRB 16.	Protoceras lower jaw fragment, 30-40 ft. below layered ash zone of Poleslide.
7/9	SW1/4 SW1/4 16 T41N R42W	FRB 17.	Creodont head & jaws. in gray below layered ash
		FRB 18.	Leptauchenia with brain cast.
		FRB 19.	Falaeclagus jaw & isolated toothy creodont.
		FRB 20.	Leptauchenia teeth, 3 individuals.
		FRB 21.	Occiput found just below George's rhino cast of same day.
7/10	SW1/4 SW1/4 16 T41N R42W	FRB 22.	Creodont lower jaws, 20' below layered ash zone.
		FRB 23.	Miscellaneous Leptauchenia fragments, 15-25' below L.A.S.
		FRB 24.	Falaeclagus maxillary, 2 teeth, 20' below L.A.S.
		FRB 25.	Leptauchenia associated dentitions, 25' below L.A.S.



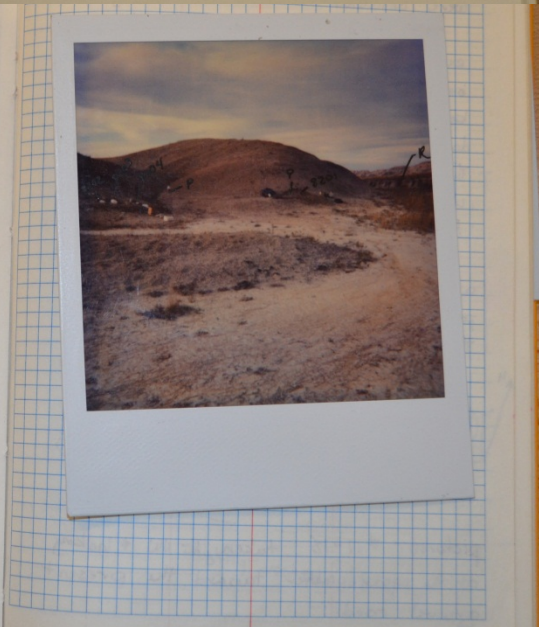
Date: 10-23-82
Weather: Sunny + Warm
Location: V828 B

Purpose: Salvage of the area; collect from within a 1 meter square to a depth of approximately 2 feet.

Started to collect surface specimens; started on the East end; downslope. Collected a lot of turtle fragments which led us to a pile of fragments 1-3"; also more bone under the pile; which we glypt and hope to recover at a later date. #W-8208

Janet found tooth fragments north of these turtle bones - about 6 feet away; they do not seem to be attached to any jaw structure; however more bone was found underneath which we glypt and hope to recover later. #W-8207

The area is approximately x and is separated by a small wash out



NATIONAL GEOGRAPHIC SOCIETY EXHIBITION - 1999