ARCTOS FOR PALEONTOLOGY COLLECTIONS

EXAMPLES FROM THE UNIVERSITY OF ALASKA MUSEUM EARTH SCIENCES COLLECTION DIGITIZATION PROJECT

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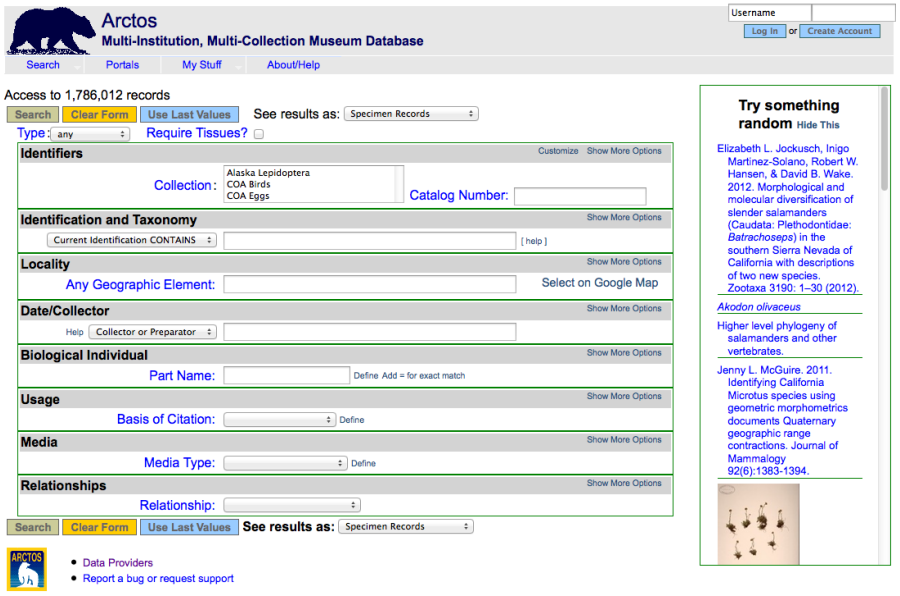
WHAT IS ARCTOS?

- Comprehensive, multidisciplinary collection management information system
- Serves data on over 3M natural history museum records
- Standardization of biodiversity data online
- Arctos community = 2 clones with parallel development



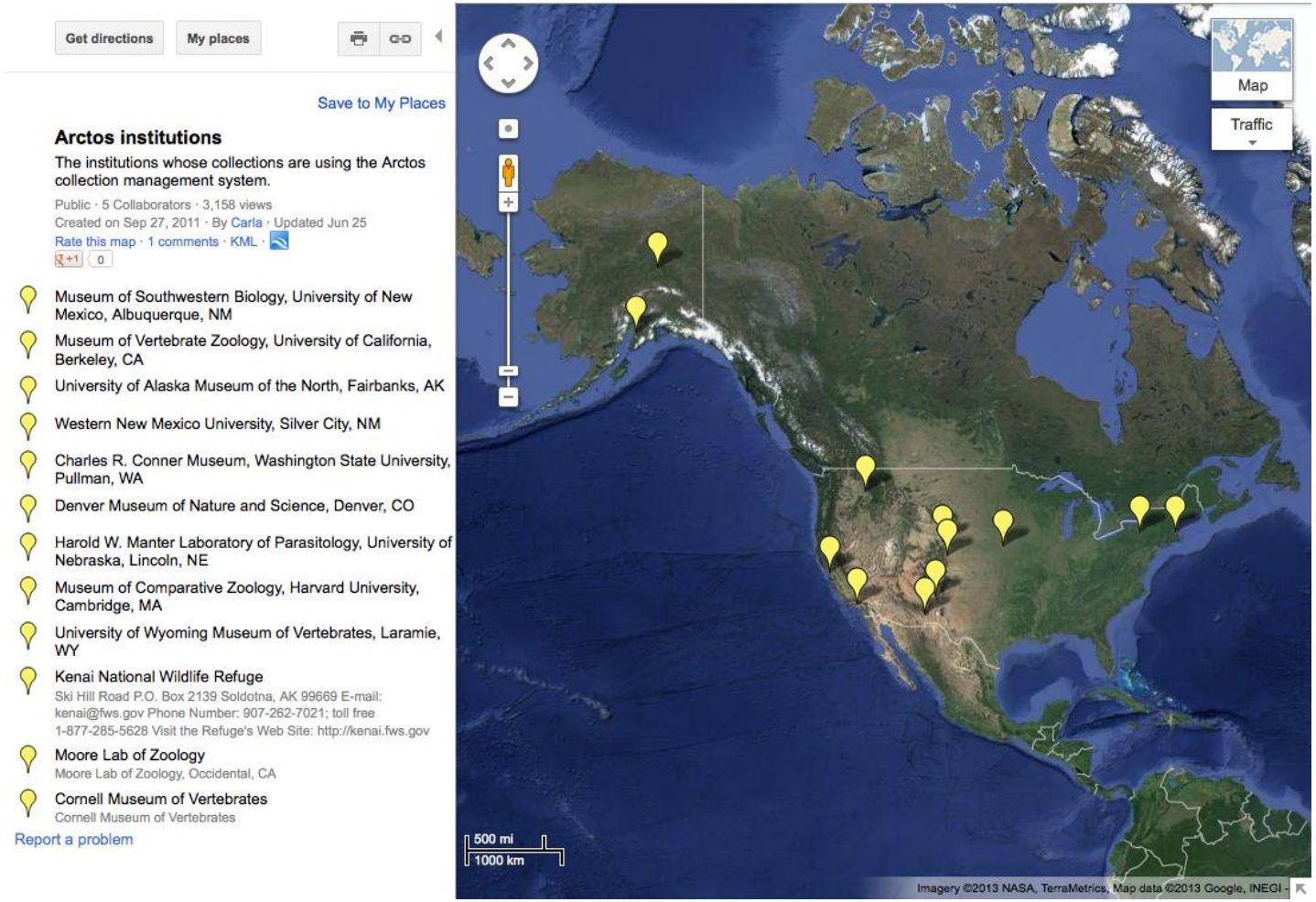
ARCTOS

As of today,1,786,124 specimens

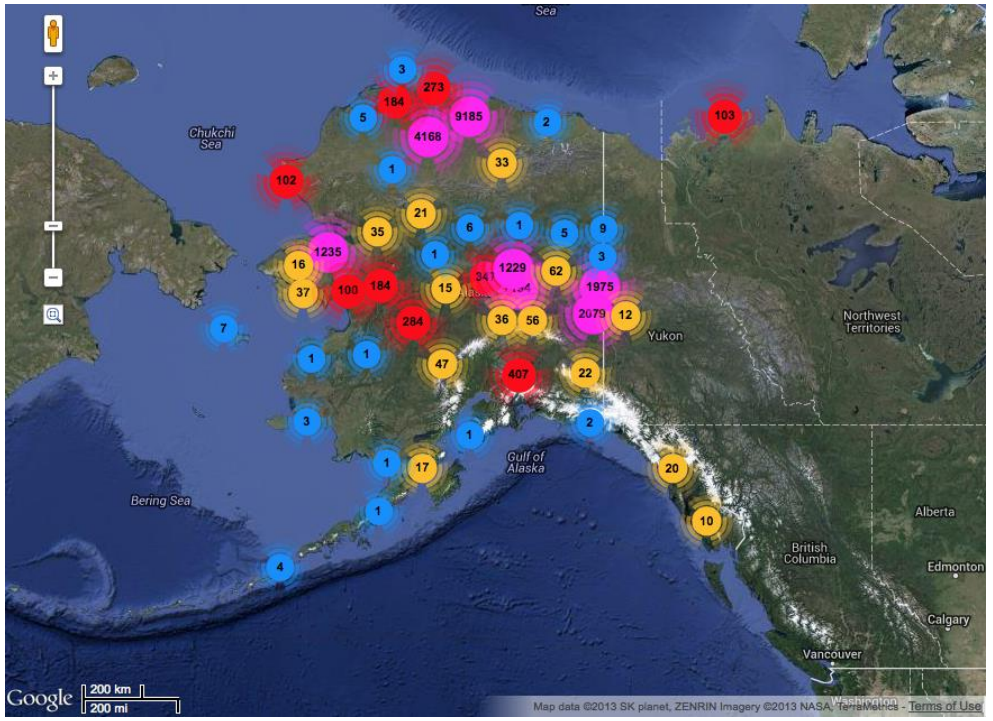
67 collections

17 museums/organizations

Media hosted at Texas Advanced Computing Center



THE UAM:ES COLLECTION



- ? specimens (>60,000)
  - Paleontology & Geology
- Digitization project from 2011
  - NSF-BRC funding
  - + NPS, BLM, USFWS
  - Focus on vertebrates
- 2 years later:
  - All accession cards digitized
  - All vertebrate and most invertebrate locality cards digitized
  - >31,500 databased specimens (>26,000 vertebrates)
  - >40,600 specimen images online (85% of vertebrate specimens)

ARCTOS IMPLEMENTATION

- **Minimum requirements:**

✓**Computer with Internet access**

✓**Collection metadata**

✓**Financial support to move your data**

- **Our project:**

+ Contribution to operational costs

+ Barcodes and scanners

+ Imaging station

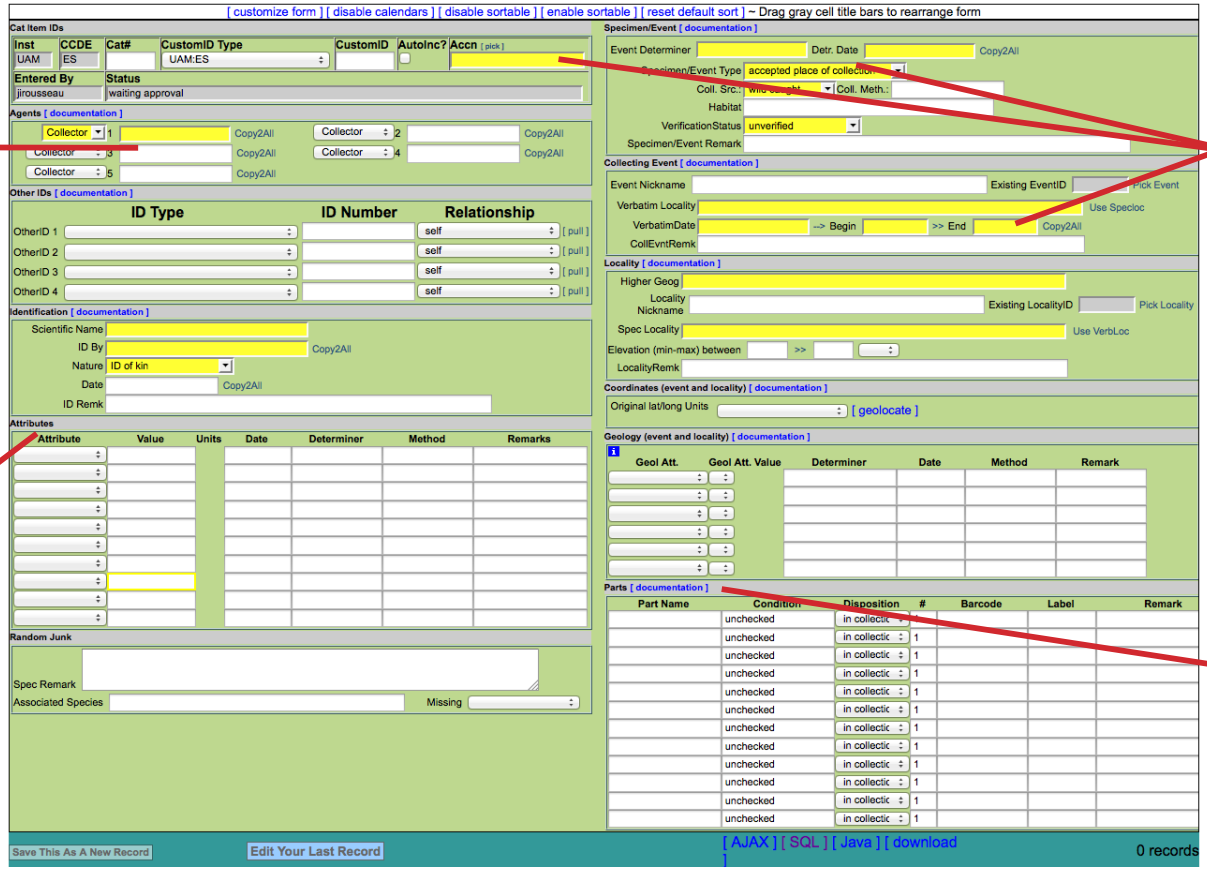
ENTERING DATA

Migrate existing data → Bulkloader

Enter new specimens → "Green Screen"

Shared nodes

Collection-specific attributes



Required fields

Specimen vs. parts

UAMES PALEOIMAGER

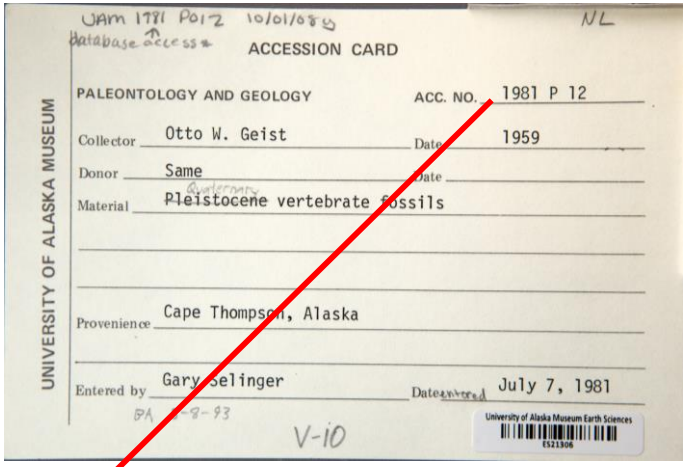
“Shortcut” system designed for us

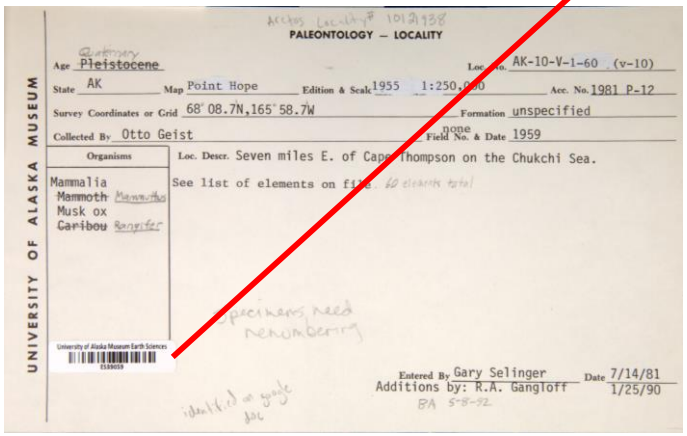
Barcode, database, photograph

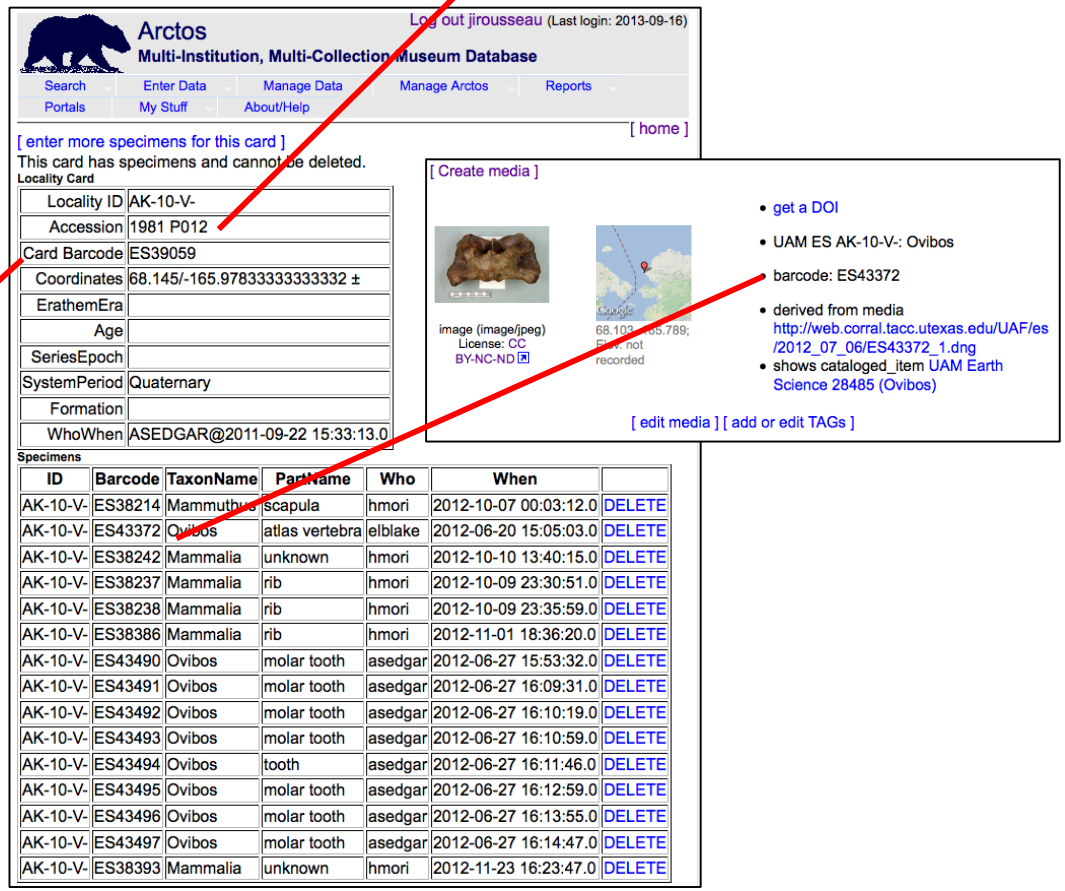
1) accession cards

2) locality cards

3) specimens







SPECIMEN RECORD

UAM Earth Science 28485
UAM:ES:
Ovibos
<< Return to results
get a DOI

7 miles East of Cape Thompson on the Chukchi Sea
North America, United States, Alaska, Point Hope Quad
1959 (1959-09-21 - 1959-10-04)

atlas vertebra

[Report Bad Data]
Earth Sciences
first prev next last
Record 8 of 67

Taxa | Accn | Locality | Agents | Parts | Part Locn. | Attributes | Other IDs | Media | Encumbrances

Edit

Ovibos
Animalia Chordata Mammalia Artiodactyla Ruminantia Bovidae Caprinae Ovibos
muskoxen
Identified by unknown
Nature of ID: field

Edit

Determination Type: accepted place of collection
assigned by Julie Rousseau on 2013-03-20
Higher Geography: North America, United States, Alaska, Point Hope Quad
Specific Locality: 7 miles East of Cape Thompson on the Chukchi Sea
Event Remarks: Part of Geist expedition under ONR grant #247.
Collecting Source: wild caught
Event Date: 1959 (1959-09-21 - 1959-10-04)
Verification Status: unverified
Event Coordinates: 68d 8.7m N/165d 58.7m W
Datum: World Geodetic System 1984
Original Coordinate Format: degrees dec. minutes
Error: 1787 m
Georeference Source: GeoLocate
Georeference Protocol: GeoLocate
System/Period: Quaternary
Determined by unknown

Collectors
Otto William Geist, Baxter Adams

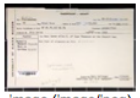
Edit

Identifiers
original identifier: AK-10-V-059

Part Name	Condition	Disposition	#	Label	Remarks
atlas vertebra	unchecked	in collection	1	ES43372	

Entered By: Erica Blake on 2012-06-21
Last Edited By: UAM on 2013-03-21

Accession
1981 P012



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Media Details
UAM/AK LocalityID AK-10-V- Locality card

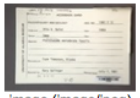


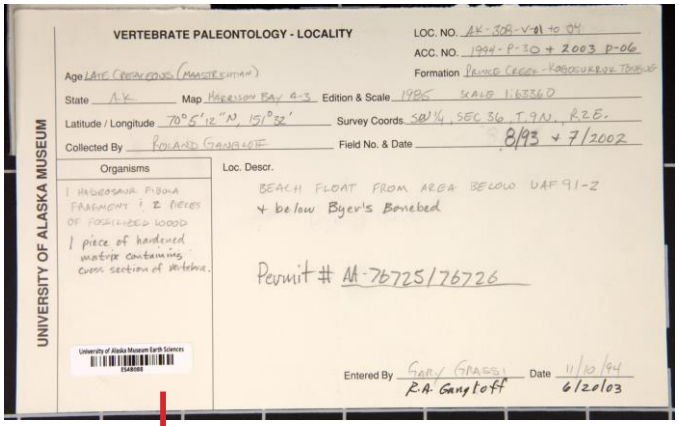
image (image/jpeg)
Media Details
UAM ES accession 1981 P012 accession card

Media

image (image/jpeg)
Media Details
UAM ES AK-10-V-: Ovibos

image (image/jpeg)
Media Details
UAM ES AK-10-V-: Ovibos

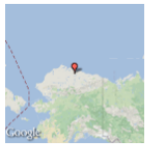
PLANT FOSSIL



UAM Earth Science 17188
UAM:ES:
Plantae
<< Return to results
get a DOI

no specific locality recorded
no higher geography recorded
before 2011-10-27 (1800-01-01 - 2011-10-27)

stem

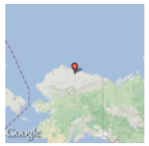


[Report Bad Data]
Earth Sciences
first prev next last
Record 10 of 34

Taxa | Accn | Locality | Agents | Parts | Part Locn. | Attributes | Other IDs | Media | Encumbrances

Edit
Plantae
Plantae
Identified by unknown
Nature of ID: field

Edit
Determination Type: accepted place of collection
assigned by unknown on 2011-10-26
Higher Geography: no higher geography recorded
Verbatim Locality: no verbatim locality recorded
Specific Locality: no specific locality recorded
Collecting Source: wild caught
Event Date: before 2011-10-27 (1800-01-01 - 2011-10-27)
Verification Status: unverified
Event Coordinates: 70.0866666667/-151.5333333333
Datum: unknown
Original Coordinate Format: decimal degrees
Georeference Source: locality card
Georeference Protocol: not recorded



Stage/Age: Maastrichtian
Determined by unknown
formation: Prince Creek Formation
Determined by unknown

Edit
Collectors
unknown

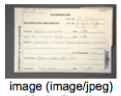
Edit
Identifiers
Locality ID: AK-308-V-
original identifier: AK-308-V-003

Edit

Part Name	Condition	Disposition	#	Label	Remarks
stem	unchecked	in collection	1	ES50125	

Edit
Remarks: Tree stem
Entered By: Todd Jacobus on 2011-10-27
Last Edited By: UAM on 2012-08-29

Edit
Accession
1994 P030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Media Details
UAM ES accession 1994 P030 accession card


image (image/jpeg)
Media Details
UAM/AK LocalityID AK-305-V- Locality card

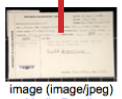
image (image/jpeg)
Media Details
UAM/AK LocalityID AK-306-V- Locality card


image (image/jpeg)
Media Details
UAM/AK LocalityID AK-307-V- Locality card


image (image/jpeg)
Media Details
UAM/AK LocalityID AK-308-V- Locality card

Edit
Media


image (image/jpeg)
Media Details
UAM ES AK-308-V-003: Plantae


image (image/jpeg)
Media Details
UAM ES AK-308-V-003: Plantae

VERTEBRATE FOSSIL

UAM Earth Science 12505
UAM:ES:
Tyrannosauridae
<< Return to results
get a DOI

Liscomb Bone Bed
North America, United States, Alaska, Harrison Bay Quad
1987-08-02 (1987-07-31 - 1987-08-10)

tooth

UCMP University of California Museum of Paleontology Specimen 154453

UCMP Collection **Vertebrates**
Other Cat. Num
Accn No **4493**
Field No **UAM-AK83.V90**
Remarks

Type Status **FIG**
Num. Indiv **1**
Element **tooth**
Duplicate **CAST**
Fate
Provenance
Donor

Phylum
Class **Reptilia**
Subclass
Order **Saurischia**
Suborder
Superfamily
Family **Tyrannosauridae**
Subfamily
Genus
Subgenus
Species
Subspecies
Modifiers
Other ID
Author

Loc ID **V85091**
Loc Name **Poverty Bar - General**
Cont/Ocean **North America**
Country **United States**
State/Prov **Alaska**
County **North Slope Borough**
Island Group
Island
Era/Eon **Mesozoic**
Period **Cretaceous**
Epoch **Late Cretaceous**
Stage
Storage Age **Maastrichtian**
Flora/Fauna
Formation **Prince Creek**

Rack Bay
Other Storage
Loan
Slide No.
Orig Slide No.
Slide Type
Slide X Y

Link to Archives
Public Access **yes**

Identified By **Erickson, G.M. 1995**
Collector **UCMP/UAM Field Party**
Date Collected **Jul 1987**
Publications
Author/Date

Last modified: Pat Holroyd 2007-12-03 13:54:04
***Notice:** Please read the UCMP copyright notice and disclaimer before using UCMP records in analyses or reports.*

Taxa | Accn | Locality | Agents | Parts | Part Locn. | Attributes | Other IDs | Media | Encumbrances

Edit
Tyrannosauridae
Animalia Chordata Reptilia Saurischia Tyrannosauridae
sensu Erickson 1995
Identified by Gregory M. Erickson
Nature of ID: expert
Remarks: Tyrannosaurid lateral tooth crown with split carina.

Tyrannosauridae
Animalia Chordata Reptilia Saurischia Tyrannosauridae
Identified by Roland Gangloff
Nature of ID: expert
Remarks: Initial field identifications by Clemens et al. not necessarily correct

Citations
basis of illustration of Tyrannosauridae, page 269 in Erickson 1995

Edit
Determination Type: accepted place of collection
assigned by William Clemens on 1985-07-01
Higher Geography: North America, United States, Alaska, Harrison Bay Quad
Verbatim Locality: Observation Point, west bank of Colville River AK
Specific Locality: Liscomb Bone Bed
Locality Remarks: This locality contains specimens collected in place and as float from the Liscomb Bone Bed at "Observation Point" along the Colville River, AK. This is a generic locality containing specimens from severel different collecting events.
Collecting Source: wild caught
Event Date: 1987-08-02 (1987-07-31 - 1987-08-10)
Verification Status: unverified

Event Coordinates: 70d 5m 0s N/151d 32m 54s W
Datum: North American Datum 1927
Original Coordinate Format: deg. min. sec.
Error: 2 km
Georeference Source: USGS 1:63,360 topo Map Harrison Bay A-3
Georeference Protocol: BioGeoMancer

System/Period: Late Cretaceous
Determined by unknown

Collectors
William A. Clemens, Dr. Carol W. Allison

Edit
Identifiers
UCMP: University of California Museum of Paleontology: V154453
original identifier: AK-83-V-090

Part Name	Condition	Disposition	#	Label	Remarks
tooth	partial	in collection	1	ES23180	Tyrannosaurid tooth crown, carina shows anterior basal split

Edit
Remarks: Tyrannosaurid tooth crown; published as Figure 1A in Erickson 1995: "Split carinae on tyrannosaurid teeth and implications for their development", JVP vol 15 #2, p. 268-274. Current location (as of 3/10/2011): Collections in the process of being researched" lane case, UAM Earth Science Lab, drawer 1
Entered By: Kevin Stack on 2011-03-10
Last Edited By: JIROUSSEAU on 2013-09-16

Accession
1987 P006

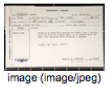
image (image/jpeg)
Media Details
UAM/AK LocalityID AK-107-V-
Locality card


image (image/jpeg)
Media Details
UAM/AK LocalityID AK-108-V-
Locality card

Media


image (image/jpeg)
Media Details
UAM:ES:12505:
Tyrannosauridae


image (image/jpeg)
Media Details
UAM:ES:12505:
Tyrannosauridae

Publication Details

Full Citation
Gregory M. Erickson. 1995. Split carinae on Tyrannosaurid teeth and implications of their development. Journal of Vertebrate Paleontology 15: 268-274.
italicize selected text
bold selected text
superscript selected text
subscript selected text
Proper Case selected text

Short Citation
Erickson 1995

Publication Type: journal article
Peer Reviewed: yes
Published Year: 1995

Digital Object Identifier (DOI)

PubMed ID (PMID)

Storage Location
http://www.jstor.org/stable/4523630

Remark

Current Authors

Role	Name	
author	Gregory M. Erickson	Delete

Add Authors

Role	Name
author	
author	
author	

Add Media:
Yellow cells are only required if you supply or create a URI. You may leave this section blank.
Find Media and create a relationship to link existing Media to this Publication.
Media URI
Upload
Preview URI
MIME Type
Media Type
Media Description

save | Delete Publication

VERTEBRATE FOSSIL

UAM Earth Science 2414
UAM:ES:
Mammut americanum
<< Return to results
get a DOI

Ikpikpuk River
North America, United States, Alaska
01-Jul-1999 (1999-07-01 - 1999-07-31)

tooth

Taxa | Accn | Locality | Agents | Parts | Part Locn. | Attributes | Other IDs | Media | Encumbrances

Edit

Mammut americanum
Animalia Chordata Mammalia Proboscidea Mammutidae Mammut americanum
American mastodon; mastadon
sensu Rohland et al. 2007
Identified by Paul Matheus
Nature of ID: expert

Mammut
Animalia Chordata Mammalia Proboscidea Mastodontidae Mammut
sensu Mann et al. 2013
Identified by Grant D. Zazula
Nature of ID: expert
Remarks: Personal communication

Mammut americanum
Animalia Chordata Mammalia Proboscidea Mammutidae Mammut americanum
American mastodon; mastadon
Identified by Paul Matheus
Nature of ID: expert
Remarks: Also known as Mastodon

Citations
basis of illustration of *Mammut americanum*, page 3 in Rohland et al. 2007
basis of illustration of *Mammut* in Mann et al. 2013

Edit

Determination Type: accepted place of collection
assigned by Amanda Hanson on 2009-07-03
Higher Geography: North America, United States, Alaska
Verbatim Locality: Collected as float along the Ikpikpuk River on the North Slope of Alaska
Specific Locality: Ikpikpuk River
Collecting Source: wild caught
Event Date: 01-Jul-1999 (1999-07-01 - 1999-07-31)
Verification Status: unverified
Event Coordinates: 70.819754/-154.3096288
Datum: North American Datum 1983
Original Coordinate Format: decimal degrees
Error: 42 km
Georeference Source: BioGeomancer
Georeference Protocol: BioGeoMancer

Stage/Age: Pleistocene
Determined by unknown

Collectors
Bureau of Land Management

Edit

Identifiers
BoLD barcode ID: GBMA839-07
GenBank: EF632344
collector number: IK-99-227

Part Name	Condition	Disposition	#	Label	Remarks
tooth	partial	being processed	1	ES 014085	

Remarks: Part of the root has been removed for mitochondrial DNA analysis (Rohland et al. 2007).
Entered By: Amanda Hanson on 2009-02-09
Last Edited By: JIROUSSEAU on 2013-09-16

Edit

Accession
2009.001.ESCI

Media

image (image/jpeg)
Media Details
UAM:ES:2414: Mammut

image (image/jpeg)
Media Details
UAM:ES:2414: Mammut

SEQUENCE: COI-5P [Funding Source: N/A]

Sequence ID:	GBMA839-07.COI-5P	GenBank Accession:	EF632344
Last Updated:	2013-09-12	Genome:	Mitochondrial
Locus:	Cytochrome Oxidase Subunit 1 5' Region		
Nucleotides:	990 bp		

```
AACCGCTGGCTGTATTCAACAAATCACAAAGATATTGGAACACTATACTTGCTATTTGGTGCCTGAGCTGGTATA
GTAGGAACTGCTTTTAGTATCCTAATTCGGGCAGAACTAGGTCAACCAGGCTCCCTTCTTGGAGAT---GATCAG
ATCTATAATGTTATTGTTACAGCACACGCCTTTGTAATAATCTTCTTCATAGTCATGCCAATTATAATTGGGGGC
TTCGGAAATTGGTTAATTCCACTTATAATCGGAGCACCCGATATAGCTTTCCCTCGAATAAATAACATAAGTTTT
TGACTACTGCCCCATCTTTCCTACTGCTTTTAGCATCTTCTACAGTAGAAGCTGGAGCAGGTACTGGATGAACC
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GCAGGAGTATCCTCCATTCTAAGTGCAATCAATTTCATCACCACTATCATTAACATGAAACCCCCAGCCATATCT
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CACGGTGGT---GAT
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Amino Acids:

```
RWLYSTNHKDIGTLYLLFGAWAGMVGTAFSILIRAELGQPGSLLGD-DQIYNVIVTAHAFVMIFFMVMPIMIGGF
GNWLIPLMIGAPDMAFPRMNNMSFWLLPPSFLLLLASSTVEAGAGTGWTVYPPLAGNLAHAGASVDLTIFSLHLA
GVSSILSAINFITTIINMKPPAMSQYHMPLFVWSILVTAVLLLLSLPVLAAGITMLLTDRNLNTTFFDPAGGGDP
ILYQHLFWFFGHPEVYILILPGFGMVSHIVTYYSGKKEPFGYMGMVWAMMSIGFLGFIVWAHHMFTVGMDVDTRA
YFTSATMIIAIPTGVKVFSWLATLHGG-D
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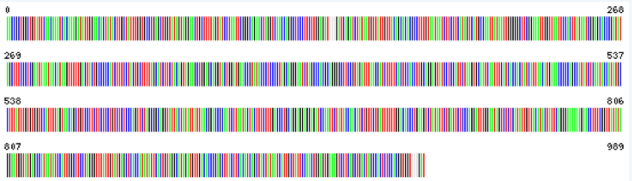
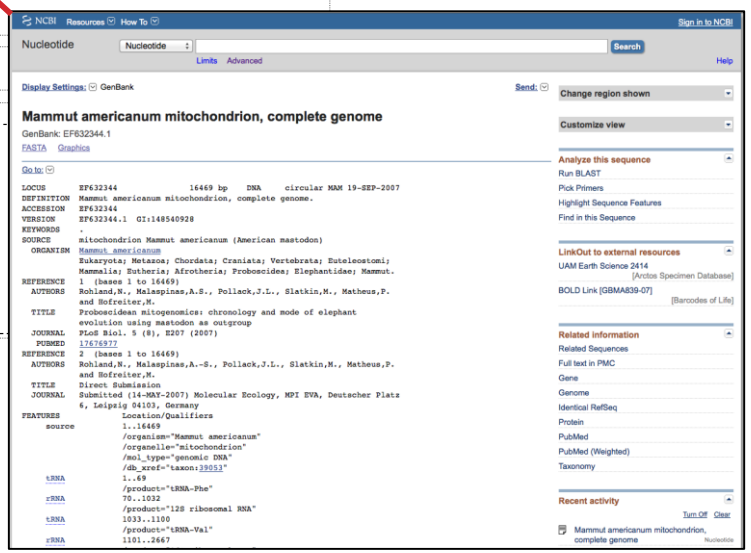
Illustrative Barcode:





TRACE FOSSIL

UAM Earth Science 3352
UAM:ES:
Theropoda
<< Return to results
get a DOI

Colville River near Uluksrak Bluff
North America, United States, Alaska, Harrison Bay Quad
21-Aug-2009 (2009-08-19 - 2009-08-30)

trace fossil; trace fossil

[Report Bad Data]
Earth Sciences
first prev next last
Record 101 of 104

Taxa | Accn | Locality | Agents | Parts | Part Locn. | Attributes | Other IDs | Media | Encumbrances

Edit
Theropoda
Animalia Chordata Reptilia Saurischia Theropoda
Identified by Patrick Druckenmiller
Nature of ID: field

Edit
Determination Type: accepted place of collection
assigned by Patrick Druckenmiller on 2009-08-08
Higher Geography: North America, United States, Alaska, Harrison Bay Quad
Verbatim Locality: The Uluksrak Bluff is on the NW side of the Colville River.
Specific Locality: Colville River near Uluksrak Bluff
Collecting Source: wild caught
Event Date: 21-Aug-2009 (2009-08-19 - 2009-08-30)
Verification Status: unverified
Datum: North American Datum 1927
Original Coordinate Format: degrees dec. minutes
Error: 500 m
Georeference Source: USGS 1:63,360 topo Map Harrison Bay A-3
Georeference Protocol: BioGeoMancer

Edit
Collectors
Patrick Druckenmiller, Kevin C. May

Edit
Identifiers
collector number: KCM CR09-05

Edit

Part Name	Condition	Disposition	#	Label	Remarks
trace fossil	single track	in collection	1	ES 012004	peel
trace fossil	single track	being processed	1	ES 012004	natural cast

Edit
Entered By: Amanda Hanson on 2009-10-01
Last Edited By: HMORI on 2013-05-07
Encumbrances: mask coordinates by Patrick Druckenmiller on 17 Dec 2009. Expires to be determined.

Edit
Accession
2009.014.ESCI

Edit
Media


image (image/jpeg)
Media Details
UAM:ES:3352: Theropoda

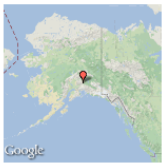

image (image/jpeg)
Media Details
UAM:ES:3352: Theropoda

INVERTEBRATE FOSSIL

UAM Earth Science 2016
UAM:ES:
Otoites pauper cf.
<< Return to results
get a DOI

Cameron Pass
North America, United States, Alaska, Talkeetna Mts. Quad
Aug 2008 (2008-08-13)

exoskeleton



[Report Bad Data]
Earth Sciences
first prev next last
Record 1 of 1

Taxa | Accn | Locality | Agents | Parts | Part Locn. | Attributes | Other IDs | Media | Encumbrances

Edit

Otoites pauper Westermann cf.
Animalia Mollusca Cephalopoda Ammonoidea Otoitidae Otoites pauper
sensu Imlay 1964
Identified by Julie Rousseau
Nature of ID: student

Cephalopoda
Animalia Mollusca Cephalopoda
Identified by Patrick Druckenmiller on 2008-08-13
Nature of ID: expert
Remarks: ammonite

Edit

Determination Type: accepted place of collection
assigned by Patrick Druckenmiller on 2008-08-10
Higher Geography: North America, United States, Alaska, Talkeetna Mts. Quad
Specific Locality: Cameron Pass
Locality Remarks: Tuxedni ichthyosaur and invertebrates
Collecting Source: wild caught
Event Date: Aug 2008 (2008-08-13)
Verification Status: unverified

Datum: North American Datum 1927
Original Coordinate Format: degrees dec. minutes
Error: 134 m
Georeference Source: USGS Topo Map 1:63,360 Talkeetna Mtns. A-1
Georeference Protocol: BioGeoMancer

Series/Epoch: Middle Jurassic
Determined by unknown
formation: Tuxedni Formation
Determined by unknown

Collectors
Edit
Patrick Druckenmiller

Identifiers
Edit
collector number: PSD-08-11-08-Lot

Edit

Part Name	Condition	Disposition	#	Label	Remarks
exoskeleton	partial	in collection	1	ES 012144	

Edit
Entered By: Carrie Lynn Yardley on 2008-12-16
Last Edited By: HMORI on 2013-04-14
Encumbrances: mask coordinates by Amanda Hanson on 22 Dec 2008. Expires Specimens are encumbered per the BLM until further notice..

Accession
Edit
2008.001.ESCI

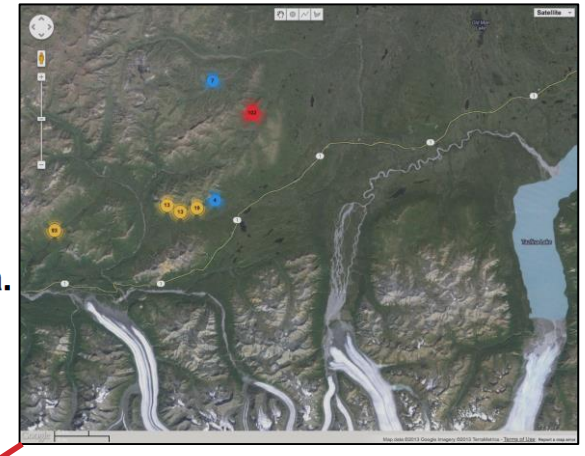
Usage
Contributed By Project: Description of a Middle Jurassic (Bajocian) ophthalmosaurid (Reptilia, Ichthyosauria) from the Tuxedni Formation, Talkeetna Mountains, Alaska.

Media
Edit


image (image/jpeg)
Media Details
UAM:ES:2016: Otoites pauper cf.


image (image/jpeg)
Media Details
UAM:ES:2016: Otoites pauper cf.

PROJECT PAGE



Description of a Middle Jurassic (Bajocian) ophthalmosaurid (Reptilia, Ichthyosauria) from the Tuxedni Formation, Talkeetna Mountains, Alaska.

Erin E Maxwell: Principal Investigator
Patrick Druckenmiller: Principal Investigator

-

Edit Project

Description

Abstract from Druckenmiller and Maxwell, 2012: Ophthalmosauridae is a clade of derived thunniform ichthyosaurs that are best known from Callovian (late Middle Jurassic) to Cenomanian-aged (Late Cretaceous) deposits in both the Northern and Southern Hemispheres. Ophthalmosaurids arose prior to the Early–Middle Jurassic boundary, however, very little is known about their diversity and distribution in the earliest phase of their evolutionary history during the Aalenian–Bathonian (Middle Jurassic) interval. Here we describe new diagnostic ophthalmosaurid material from the Early Bajocian (Middle Jurassic) of Alaska. The specimen, UAMES 3411, is a partial disarticulated skull that was discovered in the Middle Jurassic Tuxedni Formation, which was deposited in shallow marine settings outboard of the then-accreting Wrangellia composite terrane. The new material is significant in that it is the first Jurassic ichthyosaur described from Alaska, one of the oldest ophthalmosaurids known and the only Middle Jurassic ophthalmosaurid described from the Northern Hemisphere. The new material adds to a rapidly growing data set on ophthalmosaurid diversity and suggests that the clade was geographically widespread by the Early Bajocian, very early in its evolutionary history.

Publications

This project produced 1 publications.

Patrick S. Druckenmiller and Erin E. Maxwell. 2013. A Middle Jurassic (Bajocian) ophthalmosaurid (Reptilia, Ichthyosauria) from the Tuxedni Formation, Alaska and the early diversification of the clade. Geological Magazine: 1-8.

- 1 Cited Specimens
- http://dx.doi.org/10.1017/S0016756813000125
- Details

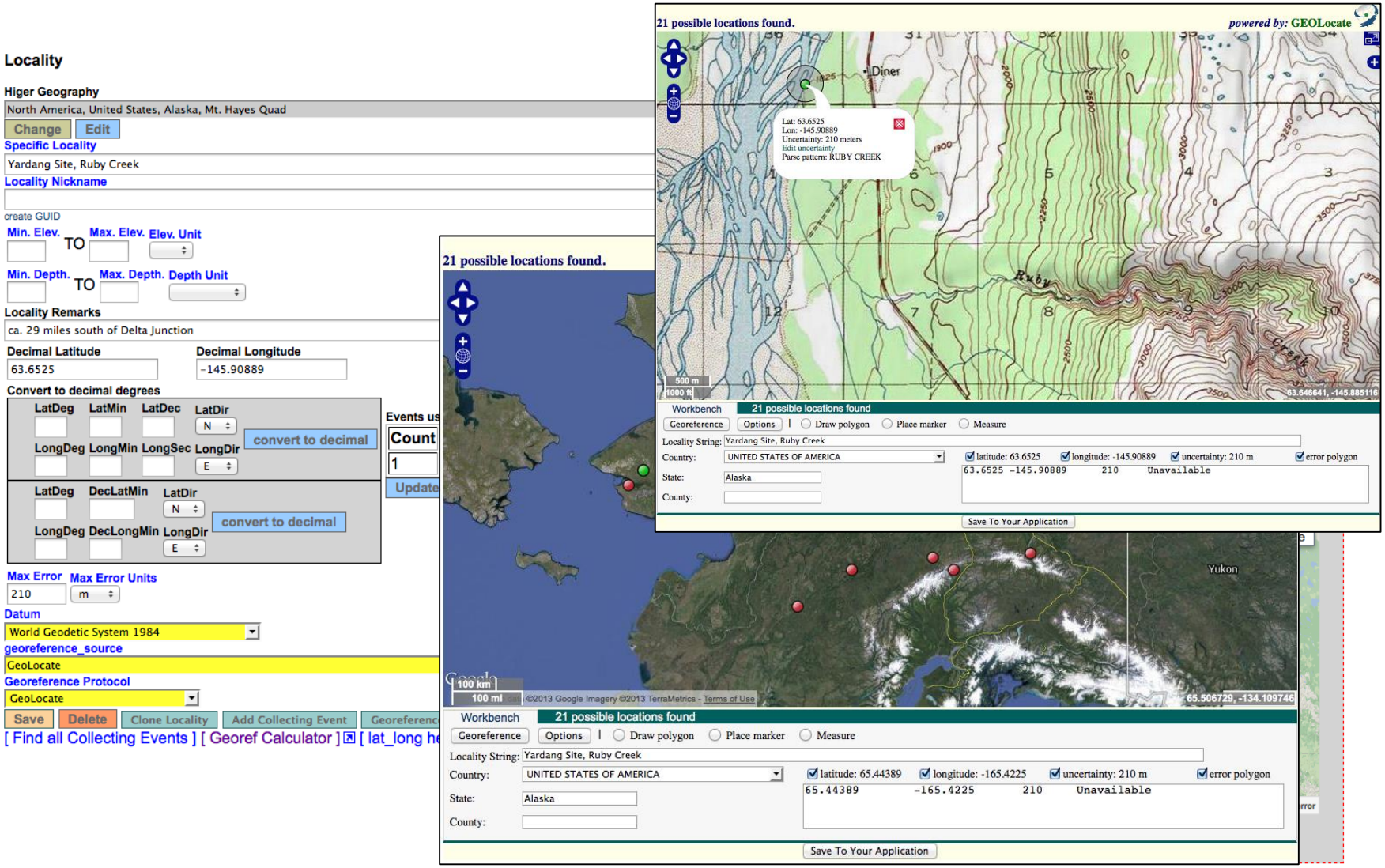
Specimens Contributed

- 253 UAM Earth Science Specimens [BerkeleyMapper]

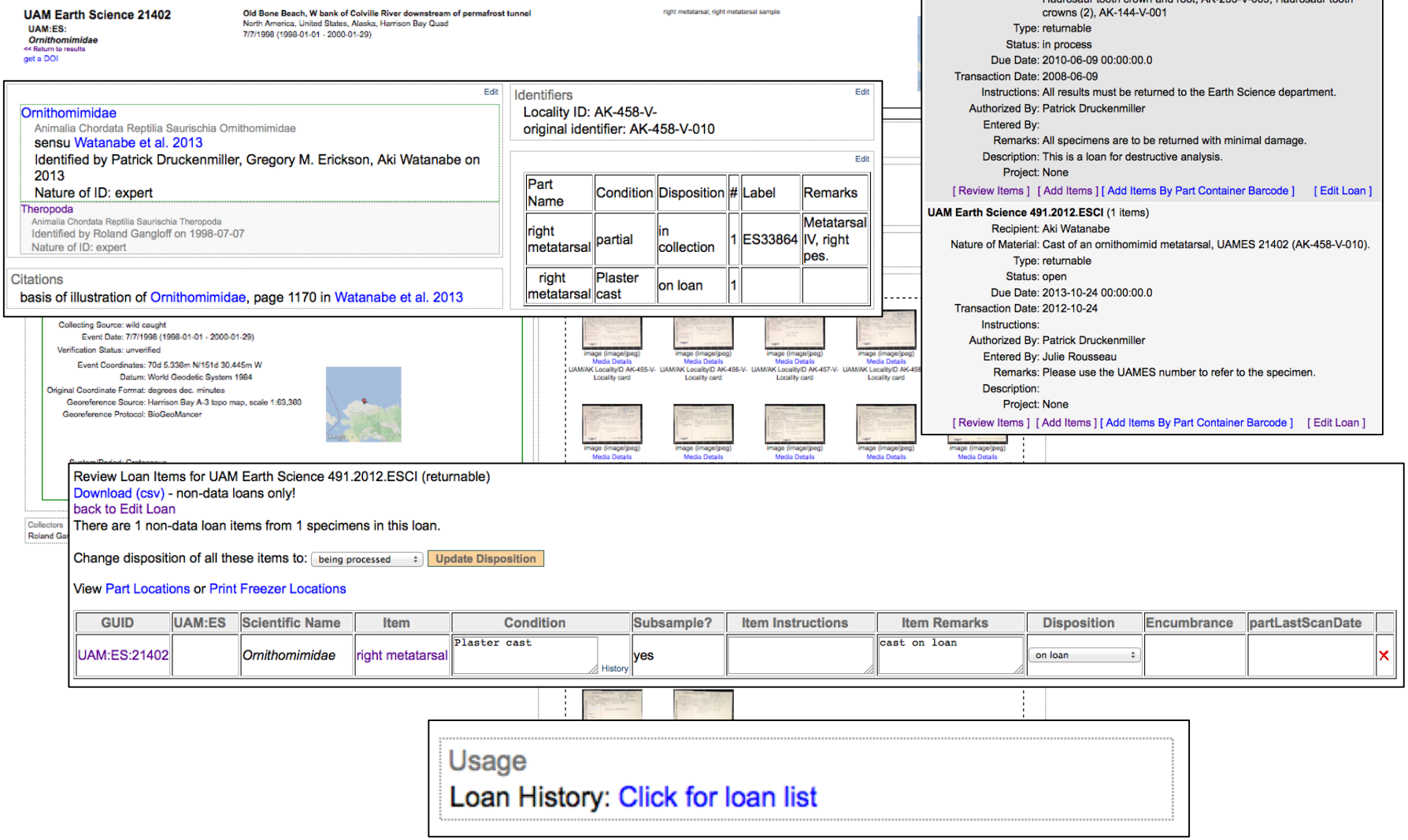
Records... 1 - 1 | Order by... UAM:ES | ...then order by guid | Add/Remove Data Fields | Download | Save Search | Manage... ::Change Stuff:: | Go | HTML version | Report Bad Data

GUID	UAM:ES	Identification	Other Identifiers	Accession	Country	State	Specific Locality	Verbatim Date	Parts	Part Detail	Sex	Dec. Lat.	Dec. Long.	Max Error (m)
UAM:ES:3411 basis of illustration		Ophthalmosaurinae	collector number=KCM-02-HM-01	2002 P011	United States	Alaska	Southern flank of Horn Mountains at head of Willow Cr.	01-Jul-2002	supraoccipital basioccipital exoccipital quadrate unknown	basioccipital {2; in collection; complete; NO BARCODE} exoccipital {2; in collection; Complete; NO BARCODE} quadrate {2; in collection; Complete; NO BARCODE} supraoccipital {1; in collection; Partial; NO BARCODE} unknown {6; in collection; Partial; NO BARCODE}		62.0284722222	-147.3018333333	50

GEOREFERENCING

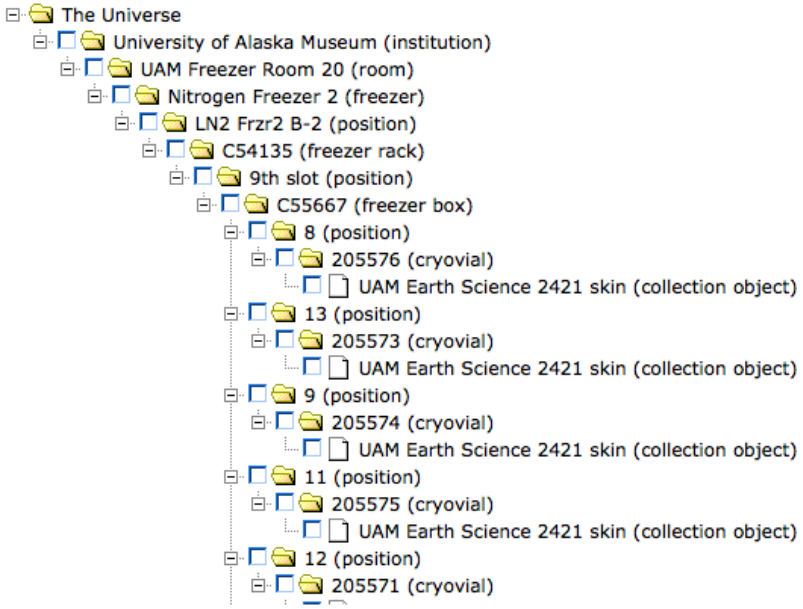


SPECIMEN USAGE DATA



COLLECTION MANAGEMENT APPLICATIONS

- **Loans**
- **Reports and collection statistics**
- **Permits / Accession agencies**
- **Tracking system using barcodes**



WHY LOVE ARCTOS

- Web-based, accessibility
- Modularity, customizable
- Dynamic system
- Community of users
- External links

How To

Procedures are here, but also scattered around in documentation and wherever. Search is your friend – use it wisely.

Search

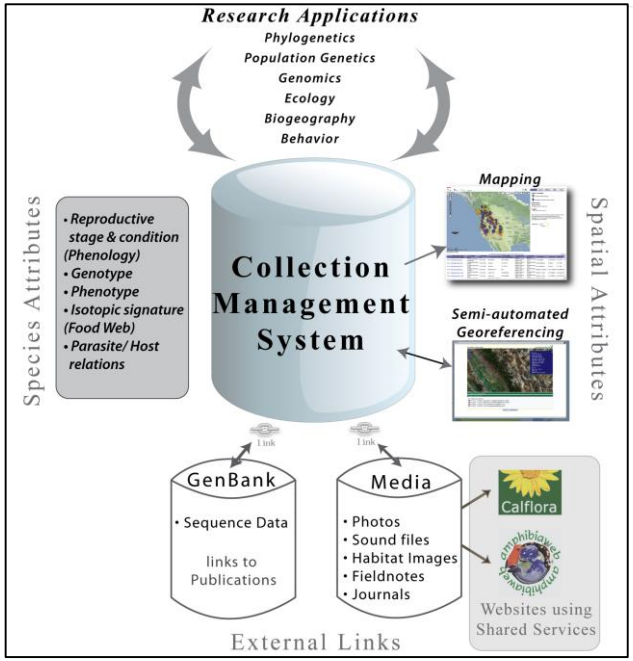
Arctos Tweets

- Arctos just added over 7500 specimens from the herpetology collection of the Burke Museum, University of Washington (burke-museum.org/herpetology) 8 months ago

Follow @arctosdb

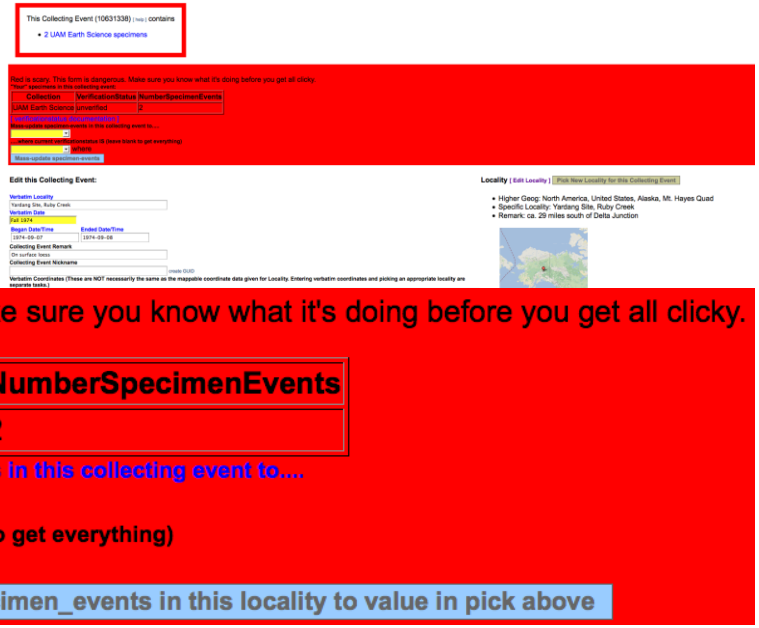
Recent Posts

- Locality Update
- Scheduled TACC work (Arctos down) on Tues, May 22, 10am-12pm Central Time
- Scheduled DiGIR outage: 2012-05-05
- Arctos network issues
- How to use DOI/PMID to create Arctos publications



KEEP IN MIND...

- Crashes happen.
- Downtimes happen.
- Changes happen.



Red is scary. This form is dangerous. Make sure you know what it's doing before you get all clicky.

"Your" specimens in this locality:

Collection	VerificationStatus	NumberSpecimenEvents
UAM Earth Science	unverified	2

Update Verification Status for ALL specimen_events in this collecting event to....

.....where current verificationstatus IS (leave blank to get everything)

Update Verification Status for all of your specimen_events in this locality to value in pick above

Coming soon to Arctos:

- Radiometric age as an attribute
- “Taxonomy” system for geological specimens

ACKNOWLEDGEMENTS

Special thanks to:

- **iDigBio**
- **Chris Jordan (Texas Advanced Computing Center)**
- **Jessica D. Cundiff (Museum of Comparative Zoology)**

More information?

- **Arctos database: http://arctos.database.museum**
- **Arctos blog: http://arctosdb.org/**
- **Presentations and tutorials: http://arctosdb.org/home/outreach/**
- **MVZ Arctos demo (2008): http://youtu.be/1-ku5QRM8O0**